

ICOH Report on Scientific Committees
Vice President's Report
Triennium 2018 - 2022

Prepared by Claudina Nogueira
ICOH Vice President

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Message from the Vice President



The current ICOH Triennium (2018 to 2022) started just after the very successful 32nd International Congress on Occupational Health (ICOH2018) held in Dublin, Ireland, for which we thank and congratulate the Congress President, Dr Martin Hogan, and his committees of congress organisers. Little did we know at that time that the current triennium would be extended to four years and that many of the planned events of ICOH and its Scientific Committees, Working Groups and members would have to be indefinitely postponed or cancelled, and that so much of ICOH's work would be done virtually as the 'new normal'.

We live in unprecedented and challenging times. Our world is in turmoil, and the ways in which we live and work have changed forever during the course of the past two years. The COVID-19 pandemic and all its health, economic and social impacts and ramifications have ironically brought the world closer together.

Never before has there been such a united front in collaboration and sharing of lessons learned, knowledge and experience, as we all try to do our bit towards managing and eradicating the pandemic as quickly and effectively as possible.

There are probably very few workers and their families and communities worldwide who can say that they have not been affected by COVID-19. At international, regional and local

levels, and across all sectors, organisations have mobilised their resources and skills to develop and/or share all they can about COVID-19 for the benefit of their workers, their families and their communities. These include policies, legislation updates, technical guidance documents, training materials, official statements, risk assessment tools, standard operating procedures, action frameworks, vaccination protocols and mandates, and return-to-work guidelines, among many others.

Many organisations have dedicated COVID-19 resources on their websites, and have shared learnings through countless virtual information sessions like webinars, symposia, conferences and workshops.

ICOH has stepped up to the plate, as anticipated, and contributed to the ongoing global battle against the pandemic, and I would like to mention some examples.

At organisational level, an official ICOH statement to highlight the importance of successful prevention and management of the COVID-19 pandemic at work was submitted in October 2020 to the Special Session of the World Health Organization (WHO) Executive Board on the implementation of the World Health Assembly Resolution WHA73.1 COVID-19 response. The proposals made in this statement include working towards the wide recognition of work-related COVID-19 cases as occupational disease cases; ensuring access to competent occupational health services for all working people; and paying special attention to the protection of COVID-19 high risk workers across various sectors.

Also, at organisational level, ICOH launched a survey on COVID-19, which was administered to ICOH National Secretaries and other senior OSH experts throughout the world. The survey collected information on public health policies, prevention measures, and other policies put in place by the national governments of various countries to contain the global pandemic. The findings will be published through ICOH channels and may be used for analysis and benchmarking at both national and international levels.

At the invitation of the International Labour Organization (ILO), the paper titled 'Work-related injuries and diseases and COVID-19', authored by ICOH leadership, was published in the International Journal of Labour Research and is available online: Takala J, Iavicoli S, Kang SK, Nogueira C, Gagliardi D, Kocks DD, Rantanen J. Work-related injuries and diseases, and COVID-19. COVID-19 and Recovery: The Role of Trade Unions in Building Forward Better.:27. https://www.ilo.org/wcmsp5/groups/public/---ed_dialogue/---actrav/documents/publication/wcms_810045.pdf

Many of ICOH's Scientific Committees have produced outputs on various aspects of COVID-19, and I will mention a few of these.

- 1) The ICOH Scientific Committee on Occupational Health for Health Workers prepared a statement in support of occupational health for health workers. The statement was informed by the events in honour of World Patient Safety Day (WPSD 2020) on 17 September 2020, organised by the WHO. The objective of WPSD 2020 was to raise global awareness about the importance of health workers' safety in sustaining a healthcare system and increasing patient safety.
- 2) The ICOH Scientific Committee on Shiftwork and Working Time contributed to a special issue of the journal 'Industrial Health' that published a series of consensus papers and good practices on various aspects of shiftwork.
- 3) The ICOH Scientific Committee on Unemployment, Job Insecurity and Health undertook the arduous task of translating into Bahasa Indonesian, the ICOH occupational health guidebook titled 'Creating a safe and healthy workplace: A guide to occupational health and safety for entrepreneurs, owners and managers'. The guidebook is available in various languages, for download off the ICOH website, free of charge. ICOH contributed towards the costs of printing this new translation of the guidebook, for use in Indonesia. I was honoured to have been invited by the leadership of the Scientific Committee to deliver the opening message at the virtual launch event on 16 September 2020. The guidebook has been distributed to several universities that collaborate with small-scale industries, workers unions, the Indonesian entrepreneur association, and other

entities, with the ultimate aim of disseminating it as widely as possible, for maximum benefit to workforces.

- 4) *'Vulnerable workers and COVID-19: Insights from a survey of members of the ICOH'*
Members of the ICOH Scientific Committee on Unemployment, Job Insecurity and Health undertook a study to determine whether occupational health professionals thought that the COVID-19 pandemic might further disadvantage any particular group(s) of vulnerable workers globally, and if so, which group(s). A cross-sectional study was carried out with a sample of occupational health professionals by means of an online questionnaire which was shared via e-mail within the ICOH community. The data were collected and analysed in 2020 (165 responses from 52 countries) and the findings were published in early 2021. The survey respondents most often identified workers with job insecurity (i.e., those in precarious employment or in the informal sector) as the disadvantaged groups likely to suffer further detriment due to COVID-19. The authors concluded that occupational health professionals play a key role and have a moral duty to encourage policies that improve social justice and reduce inequalities. The full article can be accessed online: Int. J. Environ. Res. Public Health 2021, 18(1), 346; <https://doi.org/10.3390/ijerph18010346>

The findings provide information for policy makers to review present responses to the COVID-19 pandemic for many countries and formulate context-relevant measures to limit the impact in reference to work and employment, because as we are well aware, beyond the COVID-19 recorded deaths there is a high level of uncertainty, anxiety and a dreadful loss of livelihoods.

- 5) Various ICOH Scientific Committees have organised and presented online events like Scientific Committee meetings and webinars, especially during the second part of the triennium. Below are a few examples of webinars with COVID-19 themes:

(i) Rural Health: 'Webinar on COVID-19' (June 2020) - Scientific Committee members and professionals involved in the management of COVID-19, from various countries, shared their learnings

(ii) Occupational and Environmental Dermatoses: 'Webinar on the current situation pertaining to occupational (hand) eczema due to the COVID-19 pandemic' (April 2021)

(iii) Work Organisation and Psychosocial Factors presented two webinars: 'Working from home in times of COVID-19: Line care in the workplace under COVID-19 in Japan' (April 2021) and 'Psychosocial health risks and policy responses during the COVID-19 pandemic: The case of Taiwan' (September 2021)

(iv) Accident Prevention: 'Healing the scars of the pandemic: Tackling a future of long COVID' (Aug 2021)

- 6) The ICOH Scientific Committee on Vibration and Noise contributed to position statements about the effectiveness of germicidal ultraviolet irradiation and ozone for the purpose of sanitization, in the context of the COVID-19 pandemic. The statements also address the possible risk for human health, and in particular when the general public is involved.
- 7) The ICOH Scientific Committee on Women, Health and Work contributed papers to a virtual conference that highlighted issues that put women's health at risk namely, telework (which is remote work), an increase in gender-based violence, and the vulnerability of informal sector workers during the COVID-19 lockdowns and quarantine periods.
- 8) The following ICOH Scientific Committees collaborated with the American Society of Safety Professionals (ASSP) India Chapter and the University of Calcutta to deliver the engaging 9th Professional Development Conference held virtually in April 2021 and themed 'Promoting sustainability and social well-being through excellence in OSH': Occupational Health in the Construction Industry; Rural

Health: Agriculture, Pesticides and Organic Dusts; Small Scale Enterprises and the Informal Sector; and Occupational Health and Development. Sub-themes included 'Vision Zero', Digital Technology, Mental Health, Sustainability, and there were technical sessions organised by each of the ICOH Scientific Committees. I was invited by the conference organisers to represent the ICOH Officers, co-chair a session and officially launch the book of abstracts. The conference organisers are to be congratulated on such a successful, well-organised virtual conference and an excellent compilation of abstracts, especially during such a trying pandemic situation in India – where the commitment and passion for OSH and the well-being of workforces continue to be evident.

- 9) '*24 Jornadas de Salud Ocupacional*', the 24th Annual Conference of the Society of Occupational Medicine of the Province of Buenos Aires (Sociedad de Medicina del Trabajo de la Provincia de Buenos Aires - SMTBA), an ICOH Affiliate Member, took place from 2 to 4 December 2020, in a hybrid format (online and in-presence). The theme was 'Challenges and Opportunities of the New Normal' and I was honoured to be invited to deliver the closing keynote titled 'Challenges and opportunities of occupational health in the new normal' which included an overview of occupational infectious diseases, discussed how occupational health has been affected by the COVID-19 pandemic, shared lessons learned from COVID-19 that will impact occupational health, and proposed some ideas on the future of occupational health, post-pandemic.

These are but a handful of examples of the valuable contributions made by ICOH and its Scientific Committees and members to the COVID-19 efforts.

Throughout this very challenging triennium, many of the ICOH Scientific Committees and members have continued their efforts to remain active in research, advocacy, advisory, and service delivery endeavours and make valuable contributions to global occupational health, even in the face of so many constraints and barriers.

A good example is the contributions that the Scientific Committees have made to the scientific programme of the upcoming 33rd International Congress on Occupational

Health (ICOH2022 - Melbourne-Rome Global Digital Congress, 6 to 10 February 2022). Initially planned to be held onsite in Melbourne, Australia, in March 2021, and then postponed for one year, the Congress was eventually transitioned into a fully virtual format during the second half of 2021, due to the ongoing global COVID-19 pandemic. ICOH is grateful to its Scientific Committees and members for their valuable contributions and ongoing commitment and dedication to occupational health, to ensure the sustainability and continuity of the ICOH Congress in trying times. More than 1200 participants have registered to attend and an impressive number (107) of ICOH members in good standing from low- and middle-income countries, whose abstracts were accepted for the Free Paper Sessions, met the eligibility criteria and received registration fee waivers.

I take this opportunity to thank the dedicated teams at ICOH and the various Organising and Scientific Committees for their unwavering support and assistance during this triennium, to make the ICOH2022 Congress possible. In particular, I would like to thank:

- (i) The colleagues from Monash University in Australia – my counterpart Dr Deborah Glass (Co-Chair of the Scientific Programme), Malcolm Sim (ICOH2022 Congress Co-President), and Desmond Gul (Coordinator of the Melbourne Stage), for their valuable contributions to the Scientific Programme,
- (ii) Diana Gagliardi (ICOH Deputy Secretary General) and the ICOH Secretariat – the ‘movers and shakers’ for much of the logistics, operational issues, and ‘behind the scenes’ work related to the ICOH2022 Congress,
- (iii) Won-Jun Choi - Gachon University, Korea (Coordinator of abstract publication for a special issue of SH@W),
- (iv) The ICOH Scientific Committees, whose contributions form a large part of the Scientific Programme of the ICOH2022 Congress,
- (v) Marilyn Fingerhut and Garrett Burnett – NIOSH, USA (ICOH2022 Congress Awards Coordination and Logistics)
- (vi) The Triumph registration and technical teams (ICOH2022 Congress Platform and Professional Conference Organiser), and
- (vii) The ICOH Officers – Jukka Takala (ICOH President and ICOH2022 Congress Co-President), Sergio Iavicoli (ICOH Secretary General and ICOH 2022 Congress

Co-President) and Seong-Kyu Kang (ICOH Vice President) - and Marilyn Fingerhut (Immediate Past ICOH Vice President for Scientific Committees), for their advice and support, and willingly sharing their expertise throughout the triennium.

This has been a triennium of renewed and strengthened collaboration between Scientific Committees. Before the start of the global pandemic, a flagship event demonstrating the best ever collaboration between Scientific Committees was held in Mumbai, India, 28 January to 1 February 2020. It was the 'International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH Scientific Committees, the 70th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68th Annual Conference of the IAOH Mumbai Branch. The following eight Scientific Committees were co-organisers and participants in OCCUCON 2020: Education and Training in Occupational Health; Effectiveness in Occupational Health Services; Rural Health: Agriculture, Pesticides and Organic Dusts; Mining Occupational Safety and Health; Occupational Health in the Construction Industry; Occupational Health and Development; Occupational Health in Small-Scale Enterprises and the Informal Sector; and Occupational Health in the Chemical Industry. The hosts and organisers of OCCUCON 2020 and associated conferences are to be congratulated for a very successful and well attended event that was efficiently run. The scientific content of the presentations across the five days was of a very high standard, and the Conclave offered all participants who represented various stakeholders the ideal opportunity to network and update their knowledge in various aspects of occupational health. Selected abstracts from this collaborative and dynamic event have been published as OCCUCON 2020 proceedings in a special issue of the Indian Journal of Occupational and Environmental Medicine (IJOEM), the official publication of IAOH (Vol. 24, Supplement 4, January 2020).

I was honoured to have been invited by the organisers of OCCUCON 2020 and the ICOH Scientific Committee programme within the Conclave to represent the ICOH Officers and to deliver the following presentations: (i) the *Worksafe India Oration* titled 'Update on occupational health in South Africa' and, (ii) 'The myriad faces of climate change: Lessons for occupational and public health' (with a special focus on developing countries), in the Special Session on Global Warming and Climate Change, organised by the ICOH Scientific

Committee on Rural Health: Agriculture, Pesticides and Organic Dusts. May this model of Scientific Committee collaboration become entrenched and continue to be successful in the upcoming new triennium and beyond.

The ICOH Midterm Meeting followed two weeks later, in Rome, Italy (11 to 13 February 2020) at the INAIL headquarters. It was well attended by approximately 50 participants representing ICOH leadership – Officers, Board Members, Secretariat, and Scientific Committee Chairs (or Secretaries).

I am particularly grateful to the Scientific Committees that have engaged with me and invited me to participate in their events. I am appreciative that they included me in their activities throughout the triennium – I have found these to be very enriching experiences and valuable learnings.

The ‘new normal’ ways of living and working that are direct results of the ongoing global COVID-19 pandemic have shown us throughout most of the past two years that never has it been more important to collaborate and share learnings.

As an extended and challenging triennium (2018 to 2022) draws to a close, we reflect on the numerous impacts that the ongoing COVID-19 pandemic has had across the world – globally, regionally, nationally, and locally - over the past almost two years. The way we live and work has changed irreversibly. Many lives and livelihoods have been lost across all sectors and health services continue to be under tremendous strain.

ICOH looks forward to continued and proactive engagement with its members and Scientific Committees during the new, shorter triennium that is about to start (2022 to 2024), in the interests of improving and sustaining occupational health for all in our ongoing trying times.



'On a clear day you can see forever' – A magnificent view of the centre of ancient Rome from the terraces of the Campidoglio, on the summit of the Capitoline Hill. The half-day conference on 'Future of Work' (organised in conjunction with the ICOH Midterm Meeting in February 2020) was held at the Protomoteca Hall of the Campidoglio.

Photograph – Claudina Nogueira (South Africa)

Summary Report on ICOH Scientific Committees

Introduction

This Final Triennium Report summarizes the key activities of the 37 ICOH Scientific Committees (SCs) during the 2018 - 2022 triennium (an extended period of four years instead of three, due to the global COVID-19 pandemic).

Each SC prepared a Final Triennial Report, and it is posted in the SC 'Reports and Events' section in the 'SC Virtual Office' on the ICOH website.

SCs were requested to include in their Final Triennium Reports outputs and activities for the reporting period January 2020 to February 2022. SC activities and outputs from the first part of the current triennium, i.e. from May 2018 to December 2019, were reported in the individual SC Midterm Reports submitted for tabling at the ICOH Midterm meeting in Rome, Italy, in February 2020. The composite SC Midterm Report can be accessed in the 'SC Virtual Office' on the ICOH website.

Status and Activities of the Scientific Committees

There are currently 37 SCs in ICOH, some more active than others. The SCs provide scientific support for ICOH and contribute to advancing the health and safety of workers globally. All ICOH members are grateful for their hard work and dedication on behalf of ICOH.

Thirty-five SCs provided Final Triennium Reports by 30 December 2021. For the reporting period January 2020 to February 2022, two SCs did not submit Final Triennium Reports, viz: SC on Occupational Medicine and SC on Work and Vision.

Many SCs have collaborated with other SCs to produce scientific products of a high standard and to organize scientific events such as conferences, symposia, training courses, seminars and webinars. Many SCs have established and/or strengthened their collaborations with non-ICOH organisations at international, regional, and national levels. The vast amount of work that has been carried out by the SCs during the 2018 to 2022 triennium is incorporated into three addenda in this document; the information

presented in the different sections was obtained from the individual SC Midterm and Final Reports:

- **Addendum 1** – ‘Highlights’ - Examples of Major Projects, Outputs, and Focus Areas of Scientific Committees (May 2018 – February 2022), with a special focus on publications as many SCs have listed publications of their members as SC outputs. The award for most publications goes to the SC on Cardiology in Occupational Health whose members have published in excess of 70 publications in 2020 and 2021.
- **Addendum 2** – Summary of conferences of ICOH SCs held during the full triennium (May 2018 to February 2022). For other events like seminars, workshops, courses, and webinars please refer to the SC Composite Midterm Report (February 2020) and the individual SC Final Triennium Reports in this document (Addendum 3). There has been an increasing trend for various SCs to combine efforts and co-organise/co-host/co-sponsor conferences in various geographical locations. Increasingly, SC conferences are also being held in partnership/collaboration with non-ICOH organisations, like national occupational health associations and universities.

The distinction of ‘collaborative event involving the most SCs’ goes to the ‘International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68th Annual Conference of the IAOH Mumbai Branch. The following eight SCs were co-organisers and participants in OCCUCON 2020: Education and Training in Occupational Health; Effectiveness in Occupational Health Services; Rural Health: Agriculture, Pesticides and Organic Dusts; Mining Occupational Safety and Health; Occupational Health in the Construction Industry; Occupational Health and Development; Occupational Health in Small-Scale Enterprises and the Informal Sector; and Occupational Health in the Chemical Industry.

- **Addendum 3** – Final Triennium Reports of individual SCs. The information provided in all the SC Final Triennium Reports is useful for sharing amongst all SCs, as there are valuable learnings from each SC's experiences during the reporting period, and various opportunities for potential new collaborations amongst SCs may be more easily identified.

Scientific Committee Virtual Office on the ICOH Website

We are all grateful to the ICOH Secretariat and ICOH Web staff who support the ICOH website at www.ichweb.org. They update the links and SC information on a web space for each SC at the SC public webpage <http://www.ichweb.org/site/scientific-committees.asp>

At the top of each SC's webpage, space is provided for a description of the SC, before the listing of the names and contact details of the SC leadership (usually Chair and Secretary, but in some cases also information on SC Steering or Management Group members).

Looking through the ICOH webpages of all SCs, only 20 SCs have provided descriptions of their SCs, like aims and objectives, work focus areas and main activities. The remaining SCs are encouraged to submit this type of information to be uploaded on their SC webpage to the ICOH Vice President and the ICOH Secretariat (icoh@inail.it).

Among the 37 SCs, there are also 16 that have their own websites, and they have provided the links to their SC-managed websites on the space provided on their ICOH webpage. Having a description of the SC is particularly encouraged for all the SCs who do not have their own managed websites.

Currently, 11 SCs have no SC description and no own websites, which means that there is no information available on the work of these SCs, for the benefit of current or new ICOH members who are considering which SCs they would like to join (ICOH members can join a maximum of three SCs). Sixteen SCs have their own websites.

The ICOH Secretariat and Web staff also develop and maintain the 'Virtual Office for SCs' at <http://www.icohweb.org/site/member-corner-scientific-committees-virtual-office.asp>

The 'Virtual Office for SCs' is accessed through the 'Private Area' on the ICOH website, and the SC leadership members need to have a valid username and password for access. Should you experience difficulty with access, please contact the ICOH Secretariat for assistance.

It is important for the SC leadership to access and use the 'Virtual Office for SCs' during their terms of office, as numerous resources required for SC functioning are available on this platform. Examples are reports and official communications from/for ICOH meetings and events, template forms for preparing the SC documents that are requested during the triennium, sponsorship funding forms for SC events, and very importantly, the 'Guidelines for Scientific Committees' which all SC leadership need to be aware of; this document is also available under the 'ICOH Core Documents' section on the public ICOH website. There are also other useful tools in the 'Virtual Office for SCs' which can be used to market ICOH at SC meetings and events, such as presentations about ICOH, and membership brochure and application forms.

At the top of the 'Virtual Office for SCs' there is a link to 'SC Reports and Events', for access to reports and notifications of upcoming SC events, listed per SC. The intention is to provide information for other SCs and to encourage collaborations among SCs.

Midterm Meeting of ICOH Officers, Board Members and Scientific Committee Chairs

The ICOH Midterm Meeting was organised and hosted by the Rome headquarters of the Italian Workers' Compensation Authority (INAIL – Istituto Nazionale Assicurazione contro gli Infortuni sul Lavoro) which houses the ICOH Secretariat, 11 to 13 February 2020. The meeting venue was the INAIL Palazzo at 144 Via IV Novembre in central Rome.

The meeting started with the joint meeting of the ICOH Officers, Board Members and SC Chairs (or Secretaries) and was attended by close to 50 participants. The joint meeting opened with the report from the ICOH President, followed by reports from the two Vice Presidents (for SCs and National Secretaries) and the report from the Secretary General. Professor Malcolm Sim, President of the then the ICOH2021 Congress shared updates on the organisation of the event; his presentation included a showcase of the Congress venue, the Melbourne Convention and Exhibition Centre.

The meeting participants then broke up into groups for discussion and feedback on three topics, viz. i) increasing collaboration among SCs, ii) increasing the visibility of SC work and transfer of SC outputs to the ICOH Repository, and iii) optimisation of management for SCs. A general discussion on the way forward for SCs followed, emanating from the ideas that emerged. Summary points of the suggestions put forward are listed below:

- (i) Increasing collaboration among SCs
 - Restructuring of the existing SCs, in particular the need to make the SC offerings more attractive to engage new members
 - Drafting of a guideline document on how to develop SC websites
 - Using social media to promote SC activities
 - Exploring institutional collaboration with national OSH institutes, e.g. for SC events and outputs
 - Mutual promotion of SC events among the different SCs and their professional networks and promoting joint events
 - ICOH to invest in video-conferencing systems which would widen participation, raise awareness, and promote knowledge sharing
 - The SCs have much potential which is not fully utilised in the current structure

- (ii) Increasing the visibility of SC work and transfer of SC outputs to the ICOH Repository
- The objective should be to make ICOH and the ICOH Repository the 'go-to' place for people looking for information and evidence about occupational health. Visibility should be enhanced in the scientific community, in academia, and in practice
 - Funded research for developing guidelines, which will help in raising ICOH visibility in the scientific community
 - Appointing a scientific curator to whom members can send papers would facilitate the production of consensus papers, and a template needs be developed for position statements
 - Collaboration with high impact journals and special issues should be strengthened so as to facilitate the translation of research carried out by the ICOH SCs into practical applications
 - Linking junior and senior members via a mentoring programme should be fostered; mentoring could also facilitate succession planning by including younger members in the ICOH structures
 - Although there is a defined process for the production of official guidelines and position papers which is strict (because these outputs express the views of ICOH as an organisation), it is time to review and modernise this process but still remain mindful of the stringent rules
 - Although the ICOH Newsletter is well-established, it remains a challenge to receive contributions from members. More participation from SCs is required

- Translation of research into practice needs to be re-packaged into a 'hot topic' format for wider reach and uptake, and should not only be seen as official documents for the ICOH Repository

(iii) Optimisation of management for SCs

- Management refers to ways to improve marketing, communication and visibility but also the availability of resources (funds, people, and time) to manage websites
- Active participation on social media platforms is a way of attracting young OSH professionals to ICOH; younger members could be engaged to participate in website development and maintenance
- Developing a handbook would facilitate the transition of SC leadership from one Chair to the next and ensure continuity
- Guidelines, e-learning, blogs, and newsletters should be used more proactively to reach practitioners and researchers more effectively
- Relationships with national societies should be fostered, with the support of the National Secretaries
- Some SCs are dormant and do not respond to communications from ICOH; it is necessary to implement a general re-organisation of the current SC system, including the possibility of merging SCs involved in similar work and doing away with some SCs

The Midterm Meeting included two ICOH Board Meetings on the second and third days. At the first Board meeting the final contract between the National Organising Committee of the ICOH2024 Congress and ICOH was formally signed. Professor Abdeljalil El Kholti, President of the ICOH2024 Congress, presented an update on the congress organisation. The 34th ICOH International Congress will be jointly organised by the Moroccan Occupational Health Association (MOHA) and the Faculty of Medicine and Pharmacy of

Casablanca, Hassan II University of Casablanca; and will be held in Marrakesh, Morocco with the theme 'Enhancing occupational health practices: Tackling the gap'.

The International Conference on 'Future of Work: Challenges and Opportunities for Occupational Health and Safety' was organised by ICOH and the INAIL on the second day, with the patronage of the Municipality of Rome. The half-day conference was held at the magnificent Protomoteca Hall of the Campidoglio, at the Piazza del Campidoglio – a masterpiece of Renaissance architecture, designed by Michelangelo.



Approximately 50 participants attended the ICOH Midterm Meeting, 11–13 February 2020, in Rome, Italy.

Photograph: Courtesy of ICOH Secretariat (Italy)



The ICOH Midterm Meeting started with the joint meeting of the Officers, Board Members and Scientific Committee representatives (Chairs or Secretaries) on Monday, 11 February 2020, at the INAIL headquarters in Rome.

Photograph: Claudina Nogueira (South Africa)



International Commission
on Occupational Health



ICOH 2022
33rd International Congress
on Occupational Health

Scientific Committee Contributions to the ICOH2022 Congress

(www.icoh2022.net)

The 33rd International Congress on Occupational Health (ICOH2022) will be held in a fully digital format, from 6 to 10 February 2022. More than 1200 participants have registered to attend. The Congress was initially planned to be held in Melbourne, Australia, in March 2021, but due to the global COVID-19 pandemic which started in March 2020, bans were imposed on international travel and mass gatherings like scientific conferences. The Congress was initially postponed for one year, effectively extending the triennium by an extra year, in the hope that an onsite Congress would still be possible. After much deliberation, ICOH leadership and the Australian National Organising Committee made the difficult decision to transition the Congress into a fully virtual format, with a revised theme that is better aligned with the ongoing global pandemic, viz. 'Sharing Solutions in Occupational Health through and beyond the Pandemic'.

The Congress will be run through a visually rich digital platform recreating the environment of an in-presence congress. The platform will accommodate all sessions and main events that are traditionally included in the ICOH Congress format, for which the ICOH SCs and Working Groups (WGs) are main contributors. The digital format will ensure wider accessibility, giving the whole OSH community the opportunity to attend; this novel congress approach will be particularly beneficial for participants from low- and middle-income countries. Participants will have 24/7 on-demand access to all sessions and content through the Congress digital platform. Live broadcasting will be organised for Plenary sessions and the Global Policy Forum on two stages, taking into account different time zones ('Rome stage' and 'Melbourne stage'). Semi-Plenary sessions will provide the opportunity of a live discussion at the end of each session, while Special Sessions, and Oral Free Paper and Interactive Poster Sessions will be available on-demand at any time during the Congress and for four months after the Congress dates.

During the triennium, SCs contributed extensively and enthusiastically to the development of the scientific content of the Congress in various ways:

- SC members recommended plenary and semi-plenary speakers – one opening keynote, 11 plenary keynotes, and 24 semi-plenary presentations have been scheduled,
- Most of the Special Sessions (which involve invited speakers and are not peer reviewed) were organised by the majority of the SCs, although some Special Sessions were proposed by non-ICOH organisations,
- SC members peer reviewed abstracts submitted to Free Paper Session topics, for oral and poster presentations

ICOH2022 Congress proceedings - Accepted abstracts for both Special Sessions and Free Paper Sessions (oral and poster presentations) will be published in an online supplement of 'Safety and Health at Work' (SH@W), one of the key international journals in its field and part of the Elsevier Group.

Special Sessions

Due to space and time constraints associated with transitioning an onsite Congress to a fully digital format, the number of Special Sessions had to be reduced, from around 85 to a final number of 56 (224 abstracts), following the withdrawal of two sessions in November and December 2021.

The Congress Organisers endeavoured to grant at least one Special Session to all SCs that submitted proposals, and preference was given to Special Sessions organised collaboratively by more than one SC and/or WG and/or other entity.

Details of the 56 accepted Special Sessions are listed in Table 1, below.

Table 1 – Special Sessions, ICOH2022 Congress

Collaborative Special Sessions co-organised by ICOH SCs, WGs and other entities	
Topic / Proposers	Special Session Title
Education and Training in Occupational Health + Occupational Health in Small-Scale Enterprises and the Informal Sector + Family Physicians Special Interest	SS 05 – Development of Basic Occupational Health Services, more needed than ever

Group for Workers' Health (WONCA) + Indian Association of Occupational Health (IAOH)	
Education and Training in Occupational Health + ICOH Communication and Information Task Group	SS 06 – Great opportunities of online sources on education and information
Emergency Preparedness and Response in Occupational Health + Occupational Toxicology	SS 08 – From the chemical massive disaster to the prevention
Mining Occupational Safety and Health + Industrial Hygiene	SS 13 – Preventing TB and lung disease with silica dust controls: The case for primary prevention
Musculoskeletal Disorders + Effectiveness in Occupational Health Services	SS 14 – Preventing and managing occupational shoulder disorders
Occupational and Environmental Dermatoses + Radiation and Work	SS 18 – Strategies to address the increasing burden of occupational skin cancer
Occupational Health for Health Workers + Women, Health and Work	SS 20 – The other pandemic: Mental health issues facing health workers during the COVID-19 crisis
Respiratory Disorders + Emergency Preparedness and Response in Occupational Health	SS 28 – Occupational health in disaster management, response, research, and preparedness
Rural Health: Agriculture, Pesticides and Organic Dusts + Collegium Ramazzini	SS 29 – Pesticide issues with a focus on Glyphosate
Occupational Health in Small-Scale Enterprises and the Informal Sector + Migrant Health and Development Research Initiative	SS 32 – Migrant workers' health: Solutions to empower and inspire change
Respiratory Disorders + Occupational Health in Small-Scale Enterprises and the Informal Sector	SS 33 – Preventing occupational respiratory diseases in SMEs: Sharing solutions from silicosis experiences
Work and Vision	SS 39 – Effect of blue light on workers and on LED screen computerized instrument users
Work Disability Prevention and Integration	SS 40 – Engaging workplaces in mental illness-related disability prevention
Work Organisation and Psychosocial Factors	SS 41 – Policy approaches to psychosocial risks at work
Shiftwork and Working Time + Work Organisation and Psychosocial Factors	SS 42 – Recovering from work – what to do (and not to do) during off-job times
European Union of Medical Specialists (UEMS) + Education and Training in Occupational Health	SS 44 – European Postgraduate Assessment in Occupational Medicine
Special Sessions organised by single ICOH SCs, WGs and other entities	

Topic / Proposer	Special Session Title
Accident Prevention	SS 01 - Occupational health and safety implications for the post-pandemic workplace
Ageing and Work	SS 02 – Working towards a healthy longer working life
Allergy and Immunotoxicology	SS 03 – Immunotoxicology in workplaces: Prevention, early detection, and treatment
Cardiology in Occupational Health	SS 04 – Stress, sleep, cardiovascular autonomic disorders, and health promotion
Effectiveness in Occupational Health Services	SS 07 – Occupational Health Services for all
Indoor Air Quality and Health	SS 10 – Indoor air quality in modern office buildings
Industrial Hygiene	SS 11 – Respirable crystalline silica: Exposure limits, measurements and control measures
Mining Occupational Safety and Health	SS 12 – Mining occupational safety and health
Nanomaterial Workers' Health	SS 15 – Occupational safety and health strategies for engineered nanomaterials: A model for emerging technologies
Neurotoxicology and Psychophysiology	SS 16 – Pesticide exposure: Understanding pathways of exposure and health outcomes to develop interventions to reduce exposure and improve safety
Occupational and Environmental Dermatoses	SS 17 – Is dermatitis the most frequent occupational disease? Epidemiology and prevention
Occupational Health and Development	SS 19 – Sharing solutions in Occupational Health: Best practices from LMICs
Occupational Health for Health Workers	SS 21 – Updates on protections against infectious agents in healthcare
Occupational Health in the Chemical Industry	SS 22 – Responsible care and corporate citizenship
Occupational Health in the Construction Industry	SS 23 - Occupational Health in the Construction Industry
Occupational Health Nursing	SS 24 – The work of an occupational health nurse in various countries during COVID-19
Occupational Toxicology	SS 25 – Benzene: Towards a lowering of occupational limit values and its impact on risk assessment and biomonitoring

Radiation and Work	SS 26 – Prevention of electromagnetic fields exposure risk in the workplace and the issues of the workers at particular risk
Reproductive Hazards in the Workplace	SS 27 – Reproductive hazards in the workplace and environment
Rural Health: Agriculture, Pesticides and Organic Dusts	SS 30 – Effects of pesticides and dusts
Shiftwork and Working Time	SS 31 – Recovery from shiftwork: Approaches and experience
Thermal Factors	SS 34 – Climate change, workplace heat, and occupational health and productivity
Toxicology of Metals	SS 35 – Emerging conditions of metal exposure: Implications for occupational risk assessment and management strategies
Unemployment, Job Insecurity and Health	SS 36 – Unemployment, job insecurity and health for vulnerable workers pre-, during and post-pandemic
Vibration and Noise	SS 37 - Noise and ototoxicant exposure-induced hearing loss: Surveillance, epidemiology, and prevention
Women, Health and Work	SS 38 – New realities for the health of working women in the new normal
ICOH Board Member	SS 46 – Best practices of training experts in occupational health
ICOH Past President	SS 47 – New challenges to professional ethics in occupational health
ICOH Working Group on Demographic Changes and Occupational Health	SS 52 – Young workers: Our future workforce needs OSH attention now!
ICOH Working Group on the Future of Decent Work	SS 53 – Critical issues in the future of decent work
ICOH Working Group on Occupational Infectious Agents	SS 54: Biorisk management in the workplace: Beyond the tick box
Special Sessions organised by non-ICOH entities	
Topic / Proposers	Special Session Title
Asian Ban Asbestos Network (ABAN) + Japan Occupational Safety and Health Resource Center	SS 43 – Elimination of asbestos-related diseases in Asia Pacific
Child Labour in Agriculture, Food and Agriculture Organization of the United Nations (FAO)	SS 45 – Supporting a breakthrough against child labour and hazardous work in agriculture

International Collaboration/Consortium on OHS in Fishing, Aquaculture and Seafood Processing	SS 48 – Aquaculture occupational health and safety: Towards preventive approaches
International Occupational Medicine Society Collaborative (IOMSC)	SS 49 – The Occupational Medicine Pipeline: Developing occupational medicine expertise internationally
Nordic Future of Work and OSH Group	SS 50 – Occupational safety and health challenges and solutions in the post-pandemic future of work
Partnership for European Research on Occupational Safety and Health (PEROSH)	SS 51 – Pandemic and post-pandemic challenges: A vision of the PEROSH network
Workplace Health Without Borders (WHWB - International)	SS 56 - Workplace Health Without Borders (International): How the collaborative work of an international occupational health charity changes the face of occupational health around the globe
World Health Organization (WHO)	SS 57 – Systematic reviews and meta-analyses on exposure to long working hours for the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury

Free Paper Abstract Sessions

The number of Free Paper Sessions was also reduced to 38 – the topics were merely the names of the SCs, plus an extra topic, viz. ‘Occupational Health and COVID-19’, which became the most subscribed topic for Free Paper Sessions (oral and poster presentations), having received the lion’s share of abstract submissions, as anticipated by the Congress Organisers.

Over 900 abstracts were received for Free Paper Sessions (oral and poster presentations). Most topics were granted only one oral session, and topics which received very few or no abstract submissions were merged into combined sessions – either oral or poster, or both. A few very popular topics were allocated two oral sessions each, and the most popular topic, ‘Occupational Health and COVID-19’ was allocated three oral sessions. All the abstracts were peer reviewed by the respective SCs and their allocated reviewers. The list of Free Paper topics is below.

- Accident Prevention
- Aging and Work

- Allergy and Immunotoxicology
- Cardiology in Occupational Health
- Education and Training in Occupational Health
- Effectiveness in Occupational Health Services
- Emergency Preparedness and Response in Occupational Health
- Epidemiology in Occupational Health - **(two oral sessions)**
- History of Prevention of Occupational and Environmental Diseases
- Indoor Air Quality and Health
- Industrial Hygiene
- Mining Occupational Safety and Health
- Musculoskeletal Disorders - **(two oral sessions)**
- Nanomaterial Workers' Health
- Neurotoxicology and Psychophysiology
- Occupational and Environmental Dermatoses
- Occupational Health and COVID-19 - **(three oral sessions)**
- Occupational Health Nursing
- Occupational Medicine
- Occupational Toxicology
- Occupational Health and Development
- Occupational Health for Health Workers - **(two oral sessions)**
- Occupational Health in the Chemical Industry
- Occupational Health in the Construction Industry
- Radiation and Work
- Reproductive Hazards in the Workplace
- Respiratory Disorders
- Rural Health: Agriculture, Pesticides and Organic Dusts
- Shiftwork and Working Time
- Small-Scale Enterprises and the Informal Sector
- Thermal Factors
- Toxicology of Metals
- Unemployment, Job Insecurity and Health
- Vibration and Noise

- Women Health and Work
- Work and Vision
- Work Disability Prevention and Integration
- Work Organisation and Psychosocial Factors - *(two oral sessions)*

Other highlights of the scientific programme include the following:

- An active programme focused on early- and mid-career delegates, including a prize for the best student poster and the ILO Master Fellowship Award,
- The ICOH2022 Student Poster Competition will be chaired by Dr Marilyn Fingerhut (Immediate Past ICOH Vice President), assisted by Garrett Burnett of NIOSH,
- An opportunity for Congress participants to vote for the best poster of the Congress and a special recognition will be given to the winner.
- Delegates from low- and middle-income countries who are ICOH members in good standing and whose abstracts submitted to Free Paper topics (for oral or poster presentations) were accepted had the opportunity of applying for a grant to support their participation. A total of 107 ICOH members in good standing from low- and middle-income countries met the eligibility criteria and received registration fee waivers.
- The Global Policy Forum will convene high level experts from various regions and the WHO and ILO leadership, to build on the lessons learned from the present global health emergency, and discuss relevant strategies and practices to provide a new global reference point for occupational health and safety policies addressing preparedness and management of pandemic events, well beyond COVID-19.

Conclusion

Throughout this very challenging triennium, many of the ICOH SCs and their members have continued efforts to remain active in research, advocacy, advisory, and service delivery endeavours and make valuable contributions to global occupational health, even in the face of so many constraints and barriers. Many SCs switched to online platforms to hold virtual meetings, conferences, seminars, and webinars. SCs collaborated to hold joint events and contributed to the upcoming ICOH2022 Congress in various ways. The

ongoing perseverance of the SCs and their members have ensured valuable outputs over the triennium arising from their collaborative work with other SCs as well as non-ICOH organisations like the WHO and the ILO, e.g. the publication of scientific papers, book chapters, position statements, survey findings, and technical notes; the drafting of conference declarations; the development of handbooks and guidelines; the translation of a guidance books; and presentations at many conferences.



OCCUCON 2020 was held at the Nehru Centre in Mumbai, India, and attended by more than 200 delegates, representing 25 countries across six continents.
Photograph: Courtesy of IAOH and OCCUCON 2020 organisers (India)

Addendum 1

‘Highlights’ - Examples of Major Projects, Outputs, and Focus Areas of Scientific Committees

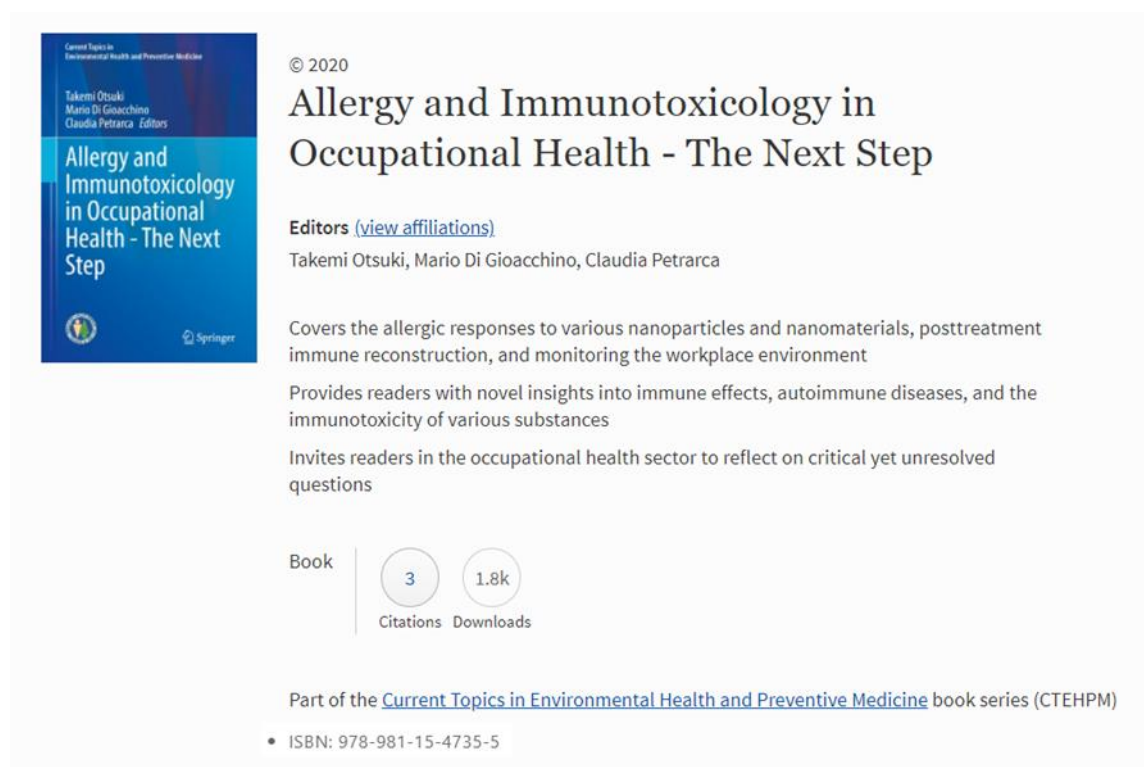
May 2018 – February 2022

SC Ageing and Work

- Members of the SC on Ageing and Work participated in a special edition on ‘Sustainable Work Ability and Ageing’ published in the International Journal of Environmental Research and Public Health (IJERPH).
https://www.mdpi.com/journal/ijerph/special_issues/work_ability
- Fischer FM, Martinez MC, Alfredo CH, et al. Ageing and the Future of Decent Work. *International Journal of Environmental Research and Public Health*. 2021;18(17):8898.

SC Allergy and Immunotoxicology

- Instead of organising a conference, SC members have focussed their efforts on publishing a second eBook, ‘Allergy and Immunotoxicology in Occupational Health: The Next Step’, as a follow-on to the SC’s first eBook published in the previous triennium. the eBook has been downloaded 1800 times and cited twice, so far. This work has replaced the attendance at audience events which were not feasible during the COVID-19 pandemic.



SC Cardiology in Occupational Health

During the first part of the triennium, SC members had already published 36 scientific papers (this number included published, submitted and in press scientific manuscripts).

In the second part of the triennium (January 2020 to February 2022), SC members have published an even more impressive number of papers – in excess of 70 – including a book chapter in ‘Handbook of Disability, Work and Health’ and seven publications in collaboration with WHO and ILO. A full list of publications is available in the SC Midterm and Final Triennium Reports.

SC Education and Training in Occupational Health (SC ETOH)

SC members are active in the process of developing an e-library of online quality learning materials located in the online ‘*Library of Education in OSH*’ on the website of the Learning and Developing Occupational Health Foundation (LDOH): <https://library-education-osh.ldoh.net/>.

Publications:

- Van Dijk F, Bubas M. Sharing online OSH education, examples that SC ETOH would like to share. *ICOH Newsletter*, September 2021; vol 19, p 10-12.
- Van Dijk F, Caraballo-Arias Y. Where to Find Evidence-Based Information on Occupational Safety and Health? *Ann Glob Health*. 2021;87:6. PMID: 33505865. Free Article. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7792450/>
- Van Dijk F, van der Laan G. A short contribution asking attention for a recent systematic review: Education of agricultural workers improving safety and health literacy (Coman MA, Marcu A, Chereches RM, Leppälä J, Van Den Broucke S.). *ICOH Newsletter*, December 2020; vol 18, p 13.
- Guillemin M, Mittal A, Nicholas R, Seneviratne M, van Dijk F. Core Values at Work. *ICOH Newsletter*, August 2020; vol 18, p 15-17.
- First Newsletter of the SC ETOH Working Group 'Core Values at Work'.

SC Effectiveness in Occupational Health Services (SC EOHS)

SC members have continued their collaborations with non-ICOH organisations such as the Cochrane Work, the Nordic Institute for Advanced Training in Occupational Health (NIVA), the Modernet (Monitoring trends in Occupational Diseases and tracing new and Emerging Risks in a NETwork) Working Group, and the Indian Association of Occupational Health (IAOH) for the organisation of OCCUCON 2020.

SC EOHS member Professor Carel Hulshof is the lead author of two systematic reviews promoted by WHO and ILO:

- Hulshof CTJ, Pega F, Neupane S, Colosio C, Daams JG, Kc P, Kuijer PPFM, Mandic-Rajcevic S, Masci F, van der Molen HF, Nygård CH, Oakman J, Proper KI, Frings-Dresen MHW. The effect of occupational exposure to ergonomic risk factors on osteoarthritis of hip or knee and selected other musculoskeletal diseases: A

systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 May;150:106349.

- Hulshof CTJ, Pega F, Neupane S, van der Molen HF, Colosio C, Daams JG, Descatha A, Kc P, Kuijer PPFM, Mandic-Rajcevic S, Masci F, Morgan RL, Nygård CH, Oakman J, Proper KI, Solovieva S, Frings-Dresen MHW. The prevalence of occupational exposure to ergonomic risk factors: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 Jan;146:106157.

SC Emergency Preparedness and Response in Occupational Health (SC EPROH)

- SC members collaborated with the Reference Centre for First Aid Education of the International Federation of Red Cross/Red Crescent (IFRC) and the European Resuscitation Council to develop the First Aid Guidelines 2020 with a focus on the occupational setting. For each first aid topic covered by the guidelines, a scientific foundation section provides an overview of the evidence that was identified from systematic reviews and/or single studies and used to support the recommendations.

The new 'International First Aid, Resuscitation, and Education Guidelines 2020' were published in early 2021 and can be accessed at:

<https://www.globalfirstaidcentre.org/resource/international-first-aid-resuscitation-and-education-guidelines-2020-2/>



- A web-based questionnaire on pandemic preparedness and learning was developed and sent to SC members as well as members of other Organisations. The questionnaire findings were presented at various fora.

SC Epidemiology in Occupational Health (EPICOH)

- EPICOH raised the definition of 'Early Career Researchers' as defined by ICOH, as it believes the definition needs to be revisited and updated to account for the fact that an increasing proportion of researchers are choosing to do PhDs later in their careers. At the yearly EPICOH conferences, the SC is recognising outstanding contributions to occupational health by inviting nominations and providing a keynote speaking opportunity for early- and mid-career recipients of the research awards. These awards complement the already well-established lifetime achievement awards.
- The SC secured a relationship with 'Occupational and Environmental Medicine' which is now EPICOH's official partner journal.

SC Indoor Air Quality and Health (SC IAQH)

Publications:

- Wolkoff, Azuma, Carrer. *ICOH Newsletter* August 2019, p. 10-11.
- Wolkoff, P. The mystery of dry indoor air: An overview. *Environ Int.* 121 (2018) 1058-1065.
- Carrer, P., Wolkoff, P. Assessment of indoor air quality problems in office-like environments: Role of occupational health services. *Int J Environ Res Public Health*, 2018, 15, E741 (8 pages).
- Wolkoff, P. Indoor humidity, air quality and health. An overview. *Int J Hyg Environ Health*, 221 (2018) 376-390.
- Spinazzè, A., Campagnolo, D., Cattaneo, A., Urso, P., Sakellaris, I.A., Saraga, D.E., Mandin, D., Canha, N., Mabilia, R., Perreca, E., Mihucz, V.G., Szigeti, T., Ventura, G., de Oliveira Fernandes, E., de Kluizenaar, Y., Cornelissen, E., Hänninen, O., Carrer, P., Wolkoff, P., Cavallo, D.M., Bartzis, J.G. Indoor air pollutants determinants in office buildings - the OFFICAIR project. *Indoor Air*, (2019) doi: 10.1111/ina.12609. [Epub ahead of print].
- Azuma K, Ikeda K, Kagi N, Yanagi U, Osawa H. Physicochemical risk factors for building-related symptoms in air-conditioned office buildings: ambient particles and combined exposure to indoor air pollutants. *Science of the Total Environment* 2018;616-617:1649-1655.
- Azuma K, Kagi N, Yanagi U, Osawa H. Effects of low-level inhalation exposure to carbon dioxide in indoor environments: A short review on human health and psychomotor performance. *Environment Int.* 2018;121:51-56.
- Azuma K, Ohyama M, Azuma M, Nakajima T. Background factors of chemical intolerance and parent-child relationships. *Environmental Health and Preventive Medicine* 2018;23:52. <https://doi.org/10.1186/s12199-018-0743-y>.

- Azuma K, Uchiyama I, Kunugita N. Factors affecting self-reported chemical intolerance: a five-year follow-up study in Japan. *Journal of Psychosomatic Research* 2019;118:1–8.
- Azuma K, Uchiyama I, Tanigawa M, Bamba I, Azuma M, Takano H, Yoshikawa T, Sakabe K. Chemical intolerance: involvement of brain function and networks after exposure to extrinsic stimuli perceived as hazardous. *Environmental Health and Preventive Medicine* 2019;24:61. <https://doi.org/10.1186/s12199-019-0816-6>.
- Wolkoff, P., Azuma, K., Carrer, P. Health, work performance, and risk of infection in office-like environments: The role of indoor temperature, air humidity, and ventilation. *Int J Hyg Environ Health*, 233 (2021) 113709 (18 pages).
- Wolkoff, P., Azuma, K., Carrer, P. The role of indoor temperature, air humidity, and ventilation in office-like environments: Health, work performance, and risk of infection. *ICOH Newsletter*, 19 (May 2021) 13-15.
- WHO Publication: ‘WHO Housing and Health Guidelines’, November 2018 (Kenichi Azuma):
<https://www.who.int/publications/i/item/9789241550376>

SC Mining Occupational Safety and Health (SC MinOSH)

Through the Sub-Committee on ‘Silica Dust Exposure and TB’, the SC has led the ICOH call for a strong global effort to promote occupational safety and health strategies to prevent TB in high-risk worker populations.

The ICOH Board approved the ICOH TB Statements in April 2018; these have been endorsed by 65 Organisations to date. The Statements, the endorsers, and links to information on the ICOH TB efforts can be accessed at <http://www.icohweb.org/site/ICOH-TB-Statements.asp>

On September 26, 2018, World Leaders endorsed the UN Political Declaration on TB ‘United to End Tuberculosis: An Urgent Global Response to a Global Epidemic’.

Thanks to the intense efforts of ICOH, IOHA and other partners, the suggested language related to workers vulnerable to TB was successfully included in the endorsed Declaration, viz. *‘Commit to... implementing primary prevention in high-risk occupations by reducing silica dust exposures in mining, construction and other dusty workplaces, and worker tuberculosis surveillance and infection prevention and control in healthcare settings’*.

SC Musculoskeletal Disorders (SC MSD)

The SC was requested by the ICOH Board to set up a Working Group to write evidence-based diagnostic criteria for occupational musculoskeletal diseases and disorders (MSDs) where appropriate. The SC Chair appointed a subcommittee to develop a framework for criteria and apply the framework to specific MSDs; experts were recruited from 20 countries to participate in this process. The consensus document - ‘A Framework for Developing International Criteria for Diagnosing an Occupational Musculoskeletal Disease: An Initiative of the Committee on Musculoskeletal Disorders of the International Commission on Occupational Health (ICOH)’ is in the final stages of preparation.

Publications:

- van der Molen, H.F., Visser, S., Alfonso, J.H., Stefania Curti, Stefano Mattioli, David Rempel, Yves Roquelaure, P. Paul F. M. Kuijer, Sietske J. Tamminga. Diagnostic criteria for musculoskeletal disorders for use in occupational healthcare or research: a scoping review of consensus- and synthesised-based case definitions. *BMC Musculoskelet Disord* 22, 169 (2021). <https://doi.org/10.1186/s12891-021-04031-z>
- Tamminga Sietske J, P Paul FM Kuijer, Kathryn Badarin, Jose Hernán Alfonso, Joana Amaro, Stefania Curti, Irina Guseva Canu, Stefano Mattioli, Ingrid S Mehlum, David Rempel, Yves Roquelaure, Steven Visser, Henk F van der Molen. Towards harmonisation of case definitions for eight work-related musculoskeletal disorders - an international multi-disciplinary Delphi study (*conditionally accepted*)

SC Nanomaterial Workers’ Health

Publications:

- Iavicoli I, Leso V, Piacchi M, Cioffi DL, Guseva Canu I, Schulte PA. An Exploratory Assessment of Applying Risk Management Practices to Engineered Nanomaterials. *Int J Environ Res Public Health*. 2019 Sep 7;16(18). doi: 10.3390/ijerph16183290.
- Schulte P, Leso V, Niang M, Iavicoli I. Biological monitoring of workers exposed to engineered nanomaterials. *Toxicol Lett*. 2018 Dec 1; 298: 112-124. doi: 10.1016/j.toxlet.2018.06.003.
- Schulte PA, Leso V, Niang M, Iavicoli I. Current state of knowledge on the health effects of engineered nanomaterials in workers: a systematic review of human studies and epidemiological investigations. *Scand J Work Environ Health*. 2019 May 1;45(3):217-238. doi: 10.5271/sjweh.3800.
- Iavicoli, I., Fontana, L., Leso, V., Macrini, M.C., Pelclova, D. Fractional exhaled nitric oxide and nanomaterial exposure in workplaces (2020). *Current Medicinal Chemistry*, 27 (42), pp. 7200-7212.
- Chapter titled: Monitoring Nanomaterials in the Workplace. Authors: Adrienne C. Eastlake, Luca Fontana, Ivo Iavicoli. In Book titled: *Allergy and Immunotoxicology in Occupational Health - The Next Step*. Editors: Takemi Otsuki, Mario Di Gioacchino and Claudia Petrarca. P. 57-74. Springer Nature Switzerland AG, First Online: 24 June 2020.
- Chapter titled: Safety, regulation, and policy. Authors: Halshka Graczyk, Luca Fontana, Maged Younes, Ivo Iavicoli. In Book titled: *Health and Environmental Safety of Nanomaterials. Polymer Nanocomposites and Other Materials Containing Nanoparticles Second Edition* Edited by James Njuguna, Krzysztof Pielichowski, Huijun Zhu. P. 84-95. Elsevier Ltd 2021.

SC Neurotoxicology and Psychophysiology

SC members contributed to book chapters:

Editors: Aschner M and Lucio G. *Advances in Neurotoxicology, Occupational Neurotoxicology*. Chapters by Markku Sainio (Environmental Intolerance), Diane Rohlman (Pesticides), Roberto Lucchini (WTC Neurotoxicities), Gerhard Hageman (Aerotoxic Syndrome), Cristoph Van Thriel (Organic Solvents), Jonathan Rutchik (Carbon Monoxide), and Maria Elena Crespo López (Mercury Neurotoxicity Among Miners).

SC Occupational and Environmental Dermatoses (SC OED)

Publications:

- Augustin M, Mrowietz U, Luck-Sikorski C, von Kiedrowski R, Schlette S, Radtke MA, John SM, Zink A, Suthakharan N, Sommer R for the German ECHT research group. Translating the WHA resolution in a member state: towards a German programme on 'Destigmatization' for individuals with visible chronic skin diseases. *JEADV* 2019 Epub ahead of print: doi.org/10.1111/jdv.15682
- Gobba, F, Modenese A, John SM (2019) Skin cancer in outdoor workers exposed to solar radiation: a largely underreported occupational disease in Italy. *JEADV* 2019 Jul 2: 1-7.doi: 10.1111/jdv.15768. [Epub ahead of print]
- Larese Filon F, Buric M, Fluehler C. UV exposure, preventive habits, risk perception, and occupation in NMSC patients: A case-control study in Trieste (NE Italy). *Photodermatol Photoimmunol Photomed*. 2019 Jan;35(1):24-30. doi: 10.1111/phpp.12417. Epub 2018 Sep 3. PubMed PMID: 30058127.
- Madan I, Parsons V, Ntani G, Wright A, English J, Coggon D, McCrone P, Smedley J, Rushton L, Murphy C, Cookson B, Lavender T, Williams H. A behaviour change package to prevent hand dermatitis in nurses working in health care: the SCIN cluster RCT. *Health Technol Assess*. 2019 Oct;23(58):1-92. doi: 10.3310/hta23580. PubMed PMID: 31635689.
- Parsons V, Williams HC, English J, Llewellyn J, Ntani G, Madan I. The development of a protocol for diagnosing hand dermatitis from photographic images. *Contact*

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- Paulo MS, Balazs A, Akagwu C, Akparibo I, Al-Rifai R, Bazrafshan S, Gobba F, Green A, Ivanov I, Kezic S, Leppink N, Loney T, Modenese A, Pega F, Peters C, Pruss-Ustun A, Tenkate T, Ujita Y, Wittlich M, John SM (2019) WHO/ILO work-related burden of disease and injury: Protocol for systematic reviews of occupational exposure to solar ultraviolet radiation and of the effect of occupational exposure to solar ultraviolet radiation on melanoma and non-melanoma skin cancer. *Environ Int*. Vol 126, May 2019: 804-815.
- White Paper 'Improved Protection of Outdoor Workers from Solar Ultraviolet Radiation' - Authors: Swen Malte John, Klaus Garbe, Lars E. French, Jukka Takala, Antonella Cardone, Rolf Gehring, Arnd Spahn, Alex Stratigos.
<https://www.eadv.org/cms-admin/showfile/White%20Paper.pdf>
- Symanzik C, John SM, Strunk M (2019) Nickel release from metal tools in the German hairdressing trade: A current analysis. *Contact Dermatitis*. 2019;1-4.
<https://doi.org/10.1111/cod.13251>
- Schmitt J, Haufe E, Trautmann F, Schulze HJ, Elsner P, Drexler H, Bauer A, Letzel S, John SM, Fartasch M, Brünig T, Seidler A, Dugas-Breit S, Gina M, Weistenhöfer W, Bachmann K, Bruhn I, Lang BM, Bonness S, Allam JP, Grobe W, Stange T, Westerhausen S, Knuschke P, Wittlich M, Diepgen TL, for the FB 181 Study Group for the FB 181 Study Group (2018) Occupational UV-exposure is a major risk factor for basal cell carcinoma: Results of the population-based case-control study FB-181. *Journal of Occupational and Environmental Medicine* 60 (1): 36-42
- Soltanipoor M, Kezic S, Sluiter JK, de Wit F, Bosma AL, van Asperen R, Rustemeyer T. Effectiveness of a skin care programme for the prevention of contact dermatitis in healthcare workers (the Healthy Hands Project): A single-centre, cluster randomized controlled trial. *Contact Dermatitis*. 2019 Jun;80(6):365-373. doi:

10.1111/cod.13214. Epub 2019 Mar 15. PubMed PMID: 30652317; PubMed Central PMCID: PMC6593800.

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- Uter W, Johansen JD, Havmose MS, Kezic S, van der Molen HF, Macan J, Babić Ž, Turk R, Symanzik C, John SM. Protocol for a systematic review on systemic and skin toxicity of important hazardous hair and nail cosmetic ingredients in hairdressers. *BMJ Open*. 2021 (accepted for publication).

SC Occupational Health for Health Workers (SC OHHW)

The SC created two Sub-Committees, viz. 'TB-Health Workers' and 'Hazardous Drugs Task Force', and developed the 'OHHW2019 Conference Declaration' which condemns and raises awareness of violence and bullying against health workers globally.

During 2018 the SC collaborated with SC on Mining Occupational Health and Safety (SC MinOSH) for the preparation of ICOH Tuberculosis Statements and participation in United Nations(UN)-Global TB Civil Societies meeting. On 26 September 2018 in New York City, USA, world leaders endorsed the UN Political Declaration on TB, 'United to end

TB: An urgent global response to a global epidemic'. Both ICOH and the International Occupational Hygiene Association (IOHA) participated in the aforementioned UN General Assembly Meeting on TB. Due to very intense efforts by ICOH, IOHA and other partner organisations, the suggested language related to TB in workers was successfully included in the endorsed UN Declaration which now identifies 'healthcare workers, miners and others exposed to silica' as high-risk vulnerable groups. To date, the focus of the global TB community has been on case identification and treatment. The main objective of the participation of ICOH and IOHA in the UN General Assembly Meeting on TB was to raise awareness of alternative approaches to prevent TB, through occupational health and safety interventions. The final text of the UN Political Declaration on TB is now available online in various languages and can be accessed at http://www.un.org/en/ga/search/view_doc.asp?symbol=A/RES/73/3.

Several members of the SC consulted on the WHO *ad hoc* study committee for developing documents regarding occupational health for health workers during the COVID-19 pandemic.

Publications:

- 'Global Shortage of Health Workers' - Publication of BGW – Conference Report – 11th International Joint Conference OHHW2019 on Occupational Health for Health Workers
- SC OHHW Statement in support of Occupational Health for Health Workers - 2020



In 2018 ICOH was represented at the UN General Assembly Meeting on TB by Drs Gwen Brachman, Perry Gottesfeld, Marilyn Fingerhut, and Sophie Kisting. IOHA was represented by the immediate Past President, Andrea Hiddinga-Schipper (left).

Photograph: Perry Gottesfeld (USA)



'Hamburg for Health Workers', 2019 – L to R: Acran Salmen-Navarro (Lead of the migration component within the ICOH WG on Future of Decent Work, USA); Gwen Brachman (Chair of the ICOH SC on Occupational Health for Health Workers, USA); Claudina Nogueira (ICOH Vice President for SCs, South Africa); Albert Nienhaus (Chair of the Conference Organising Committee, Germany); and Igor Bello (Secretary of the ICOH SC on Women, Health and Work Venezuela)

Photograph: Viviana Gómez-Sánchez (Costa Rica)

SC Radiation and Work

Several members of the SC have been recruited by the WHO and ILO to participate in a new project aimed to serve an innovative methodology of the two organisations for the estimate of the global burden of occupational solar UVR-induced cataract and skin cancers.

Publications:

- Tenkate T, Adam B, Al-Rifai RH, Chou BR, Gobba F, Ivanov ID, Leppink N, Loney T, Pega F, Peters CE, Prüss-Üstün AM, Silva Paulo M, Ujita Y, Wittlich M, Modenese A. WHO/ILO work-related burden of disease and injury: Protocol for systematic reviews of occupational exposure to solar ultraviolet radiation and of the effect of occupational exposure to solar ultraviolet radiation on cataract. *Environ Int.* 2019 Apr;125:542-553. doi: 10.1016/j.envint.2018.10.001.
- Paulo MS, Adam B, Akagwu C, Akparibo I, Al-Rifai RH, Bazrafshan S, Gobba F, Green AC, Ivanov I, Kezic S, Leppink N, Loney T, Modenese A, Pega F, Peters CE, Prüss-Üstün AM, Tenkate T, Ujita Y, Wittlich M, John SM. WHO/ILO work-related burden of disease and injury: Protocol for systematic reviews of occupational exposure to solar ultraviolet radiation and of the effect of occupational exposure to solar ultraviolet radiation on melanoma and non-melanoma skin cancer. *Environ Int.* 2019 May;126:804-815. Doi: 10.1016/j.envint.2018.09.039.
- Gobba F, Modenese A, John SM. Skin cancer in outdoor workers exposed to solar radiation: a largely underreported occupational disease in Italy. *J Eur Acad Dermatol Venereol.* 2019 Nov;33(11):2068-2074. doi: 10.1111/jdv.15768.
- Marc Wittlich, Swen Malte John, George-Sorin Tiplica, Carmen Maria Sălăvăstru, Alexandra-Irina Butacu, Alberto Modenese, Valentina Paolucci, Gabriele D'Hauw, Fabriziomaria Gobba, Pietro Sartorelli, Jelena Macan, Jelena Kovačić, Kasper Grandahl, Horatiu Moldovan. Solar ultraviolet radiation measurements in an occupational setting across Europe. Submitted to *J Eur Acad Dermatol Venereol* 2019. EADV-2019-1914

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- Bauer A, Haufe E, Heinrich L, Seidler A, Schulze HJ, Elsner P, Drexler H, Letzel S, John SM, Fartasch M, Brüning T, Dugas-Breit S, Gina M, Weistenhöfer W, Bachmann K, Bruhn I, Lang BM, Brans R, Allam JP, Grobe W, Westerhausen S, Knuschke P, Wittlich M, Diepgen TL, Schmitt J; FB181 study group. Basal cell carcinoma risk and solar UV exposure in occupationally relevant anatomic sites: do histological subtype, tumor localization and Fitzpatrick phototype play a role? A population-based case-control study. *J Occup Med Toxicol*. 2020 Sep 10;15:28. doi: 10.1186/s12995-020-00279-8.
- Baczynska KA, Brown S, Chorley AC, O'Hagan JB, Khazova M, Lyachev A, Wittlich M. In-Flight UV-A Exposure of Commercial Airline Pilots. *Aerosp Med Hum Perform*. 2020 Jun 1;91(6):501-510. doi: 10.3357/AMHP.5507.2020.
- Kovačić J, Wittlich M, John SM, Macan J. Personal ultraviolet radiation dosimetry and its relationship with environmental data: A longitudinal pilot study in Croatian construction workers. *J Photochem Photobiol B*. 2020 Jun;207:111866. doi: 10.1016/j.jphotobiol.2020.111866.
- Wittlich M, John SM, Tiplica GS, Sălăvăstru CM, Butacu AI, Modenese A, Paolucci V, D'Hauw G, Gobba F, Sartorelli P, Macan J, Kovačić J, Grandahl K, Moldovan H. Personal solar ultraviolet radiation dosimetry in an occupational setting across Europe. *J Eur Acad Dermatol Venereol*. 2020 Aug;34(8):1835-1841. doi: 10.1111/jdv.16303.

- Moldovan HR, Wittlich M, John SM, Brans R, Tiplica GS, Salavastru C, Voidazan ST, Duca RC, Fugulyan E, Horvath G, Alexa A, Butacu AI. Exposure to solar UV radiation in outdoor construction workers using personal dosimetry. *Environ Res*. 2020 Feb;181:108967. doi: 10.1016/j.envres.2019.108967.
- Hartwig V, Virgili G, Mattei FE, Biagini C, Romeo S, Zeni O, Scarfi MR, Massa R, Campanella F, Landini L, Gobba F, Modenese A, Giovannetti G. Occupational exposure to electromagnetic fields in magnetic resonance environment: an update on regulation, exposure assessment techniques, health risk evaluation, and surveillance. *Med Biol Eng Comput*. 2021 Sep 29. doi: 10.1007/s11517-021-02435-6.
- Ferrari G, Ferrari AM, Campobasso D, Modenese A, Rijo E, Misrai V, Rosa R, Cindolo L. Environmental Safety of the 180-W GreenLight Laser: A Pilot Study on Plume and Irrigating Fluids. *Urology*. 2021 Aug;154:227-232. doi: 10.1016/j.urology.2021.03.016.
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- Modenese A, Loney T, Ruggieri FP, Tornese L, Gobba F. Sun protection habits and behaviors of a group of outdoor workers and students from the agricultural and construction sectors in north-Italy. *Med Lav*. 2020 Apr 30;111(2):116-125. doi: 10.23749/mdl.v111i2.8929.
- Della Vecchia E, Modenese A, Loney T, Muscatello M, Silva Paulo M, Rossi G, Gobba F. Risk of cataract in health care workers exposed to ionizing radiation: a systematic review. *Med Lav*. 2020 Aug 31;111(4):269-284. doi: 10.23749/mdl.v111i4.9045.

- Loney T, Paulo MS, Modenese A, Gobba F, Tenkate T, Whiteman DC, Green AC, John SM. Global evidence on occupational sun exposure and keratinocyte cancers: a systematic review. *Br J Dermatol*. 2021 Feb;184(2):208-218. doi: 10.1111/bjd.19152.
- Modenese A, Ruggieri FP, Bisegna F, Borra M, Burattini C, Della Vecchia E, Grandi C, Grasso A, Gugliermetti L, Manini M, Militello A, Gobba F. Occupational Exposure to Solar UV Radiation of a Group of Fishermen Working in the Italian North Adriatic Sea. *Int J Environ Res Public Health*. 2019 Aug 20;16(16):3001. doi: 10.3390/ijerph16163001.
- Modenese, A.; Gobba, F.; Paolucci, V.; John, S.M.; Sartorelli, P.; Wittlich, M. A One-Month Monitoring of Exposure to Solar UV Radiation of a Group of Construction Workers in Tuscany. *Energies* 2020, 13, 6035. <https://doi.org/10.3390/en13226035>
- Alberto Modenese, Fabio Bisegna, Massimo Borra, Giulia Bravo, Chiara Burattini, Anna Grasso, Luca Gugliermetti, Francesca Larese Filon, Andrea Militello, Francesco Pio Ruggieri, Fabriziomaria Gobba. Evaluation of Personal Solar UV Exposure in a Group of Italian Dockworkers and Fishermen, and Assessment of Changes in Sun Protection Behaviours After a Sun-Safety Training. *Adv. Sci. Technol. Eng. Syst. J.* 6(1), 1312-1318 (2021); DOI: 10.25046/aj0601150
- Modenese A, Gobba F. Exposure to Optical Radiation and Electromagnetic Fields at the Workplace: Criteria for Occupational Health Surveillance According to Current European Legislation. *Adv. Sci. Technol. Eng. Syst. J.* 6(1), 1403-1413 (2021); DOI: 10.25046/aj0601159
- Bravo Giulia, Modenese Alberto, Arcangeli Giulio, Bertoldi Chiara, Camisa Vincenzo, Corona Gianluca, Giglioli Senio, Ligabue Guido, Moccaldi Roberto, Mucci Nicola, Muscatello Martina, Venturelli Irene, Vimercati Luigi, Zaffina Salvatore, Zanotti Giulio, Gobba Fabriziomaria. Subjective Symptoms in Magnetic Resonance

Imaging Personnel: A Multi-Center Study in Italy. *Frontiers in Public Health*, 2021, 9:1394. DOI=10.3389/fpubh.2021.699675

- Marc Wittlich. Criteria for Occupational Medical Prophylaxis for solar UVR exposed outdoor workers Prevalence, Affected Parties, and Occupational Disease. *Submitted to Frontiers in Public Health on 07/09/2021.*
- Alberto Modenese, Tom Loney, Marc Rocholl, Cara Symanzik, Fabriziomaria Gobba, Swen Malte John, Kurt Straif, Marília Silva Paulo. Protocol for a systematic review on the effectiveness of interventions to reduce exposure to occupational solar ultraviolet radiation (UVR) among outdoor workers. *Submitted to Frontiers in Public Health on 10/08/2021.*

SC Respiratory Diseases (SC RD)

SC members have continued to participate regularly in training programmes around the world to upgrade skills of specialists, particularly in developing countries, on the application of the ILO International Classification of Radiographs of Pneumoconioses, and to contribute to the implementation of the ILO/WHO Global Programme for the Elimination of Silicosis.

SC Rural Health: Agriculture, Pesticides and Organic Dusts (SC RH)

Represented by their SC Chair, the SC took the initiative to participate in the United Nations (UN) Programme on Women, under Sustainable Development Goal 5, and gender equality. As per the recommendation in this UN programme, the SC has made the commitment to do its best to improve the working conditions of women in rural areas and to encourage rural women and girls to take up STEM disciplines (science, technology, engineering, mathematics), to increase the female workforce in critical professions.

SC Shiftwork and Working Time

A dedicated edition of the *Journal of Industrial Health* focused on nine review papers and consensus statements from the SC and its members:

https://www.jstage.jst.go.jp/browse/indhealth/57/2/_contents/-char/en

The SC spent over two years working toward developing the aforementioned set of consensus statements in its fields of expertise and in doing so:

- Provided international agreement on the current state of research in specific areas,
- Identified associated worker health and safety risks,
- Recommended guidelines for effective interventions to mitigate fatigue related to non-standard working hours, and
- Suggested future directions for research and interventions.

SC Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS)

Publications:

- Banibrata Das, Somnath Gangopadhyay and Tirthankar Ghosh. The effects of using an ergonomic aid on the physical workload and body discomfort reported by pre-adolescent farmers in West Bengal. *Work* 2021 Oct 12. doi: 10.3233/WOR-213593. (Online ahead of print).
- P Mukherjee, AS Roy, A Bandyopadhyay, S Gangopadhyay. A detailed study on morphological profile, hand grip strength, flexibility, and working postures in housemaids of Kolkata. *BLDE Univ J Health Sci* 2020;5:200-208.
- White Paper on Future of Decent Work (Paul Schulte - Chair)
 - The SC OHSSEIS contributed to a section on migrant workers through the 'Working Group on Demographic Changes and Occupational Health'

SC members promoted the COVID-19 prevention material for workplaces developed by the ILO and provided by SC member and Occupational Health and Safety expert with ILO, South Asia and India, Dr Tsuyoshi Kawakami:

- An action-checklist for COVID-19 prevention
- A short video clip, 'COVID-19: Three tips to protect SME Workers' available at

https://www.ilo.org/newdelhi/info/public/vid/WCMS_740672/lang--en/index.htm

SC Thermal Factors (SC TF)

Publications:

- Lee J, Venugopal V, Latha PK, Alhadad SB, Leow HWC, Goh NYD, Tan E, Kjellstrom T, Morabito M, Lee JKW. Heat stress and thermal perception amongst healthcare workers during the COVID-19 pandemic in India and Singapore. *International Journal of Environmental Research and Public Health*. 2020, 7(21): 8100 <https://www.mdpi.com/1660-4601/17/21/8100>
- Heat and COVID-19 Information Series
<https://ghhin.org/heat-and-covid-19/>
- Daanen H, Bose-O'Reilly S, Brearley M, Flouris AD, Gerrett, NM, Huynen M, Jones HM, Lee JKW, Morris N, Norton I, Nybo L, Oppermann E, Shumake-Guillemot J, Van den Hazel P. COVID-19 and thermoregulation-related problems: Practical recommendations. *Temperature*, 2020, 8:1, 1-11
<https://www.tandfonline.com/doi/full/10.1080/23328940.2020.1790971>
- Bose-O'Reilly S, Daanen H, Deering K, Gerrett N, Huynen MTE, Lee JKW, Karrasch S, Matthies-Wiesler F, Mertes H, Schoierer J, Shumake-Guillemot J, van den Hazel P, van Loenhout JAF, Nowak D. COVID-19 and heat waves: New challenges for healthcare systems – a narrative review. *Environmental Research*. 2021, 198: 111153.
<https://www.sciencedirect.com/science/article/pii/S0013935121004473?via%3Dihub>
- In collaboration with the Chair of the SC on Reproductive Hazards in the Workplace (SC RHICOH): Yang HY, Lee JKW. The impact of temperature on the risk of COVID-19: A multinational study. *International Journal of Environmental Research and Public Health*. 2021, 18 (8): 4052.
<https://www.mdpi.com/1660-4601/18/8/4052>

SC Toxicology of Metals (SC TM)

The SC Chair and the Secretary were Guest Editors of a special issue of the 'International Journal of Environmental Research and Public Health', titled 'Toxicology of Metals: Exposure, Effects and Implications for Occupational Health'.

Publications:

- Former Chair of the SC TM Professor Gunnar Nordberg, in collaboration with Max Costa, edited the 5th edition of 'Handbook on the Toxicology of Metals', which will be published in December 2021. Many SC TM members, including former officers prepared chapters for the book, e.g.:
 - Veruscka Leso, Ivo Iavicoli. Chapter 28 'Rhodium', In: *Handbook on the Toxicology of Metals, 5th edition, Volume II*. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. *In press*
 - Veruscka Leso, Ivo Iavicoli. Chapter 16 'Iridium', In: *Handbook on the Toxicology of Metals, 5th edition, Volume II*. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. *In press*
 - Natalia Pawlas, Cezary Pałczyński. Chapter 5 'Beryllium', In: *Handbook on the Toxicology of Metals, 5th edition, Volume II*. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. *In press*
 - Karin Broberg, Natalia Pawlas. Chapter 15 'Gene-environment interactions and metal toxicity', In: *Handbook on the Toxicology of Metals, 5th edition, Volume II*. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. *In press*
- SC members published the following book:

'Risk Assessment for Human Metal Exposures: Mode of Action and Kinetic Approaches'

Authors: Gunnar F. Nordberg, Bruce A. Fowler

eBook ISBN: 9780128042687

Paperback ISBN: 9780128042274

Imprint: Academic Press

Published Date: 23 August 2018

SC Unemployment, Job Insecurity and Health (SC UJIH)

Publications:

- J Tamin, O Samuel, A Suraya, ID Ebuenyi, N Naicker, M Rajput-Ray. Vulnerable workers and COVID-19: Insights from a survey of members of the International Commission on Occupational Health. *International Journal of Environmental Research and Public Health* 18 (1), 346
- Ebuenyi, I.D.; Naicker, N.; Tamin, J.; Samuel, O.; Suraya, A.; Lappalainen, K.; Rajput-Ray, M. Occupational Health Community Perceptions: Impact of COVID-19 on Work and Employment. *ICOH Newsletter* 2020, 18. Available online: http://www.icohweb.org/site/pdf-viewer/viewer.asp?newsletter=icoh_newsletter_vol18_no2.pdf
- J Tamin (on behalf of SC UJIH). COVID-19 and vulnerable workers. *Occupational Medicine* 2021;71:161–164
- The SC UJIH published the translation into Bahasa Indonesian of the ICOH guidance book ‘Creating a Safe and Healthy Workplace - A Guide to Occupational Health and Safety for Entrepreneurs, Owners and Managers’, available on the ICOH website:

Drs. Sahuri, SST.K3., MA, Dr. Anna Suraya, MKK, SpOk, Putri Winda Lestari, S.KM., M.Kes, Dr. Agung Cahyono Triwibowo, M.Si, Dr. Ade Dwi Lestari, M.Kes., SpOK, Uci Sulandari, M.Si, Husen, SST.K3., M.Si, Warendi, SKM., M.Kes, Yunita Sari Purba, SST.K3., MA, Lulus Suci Hendrawati, S.Kom, M.Si, Menciptakan Tempat Kerja Yang Aman Dan Sehat; Panduan Keselamatan dan Kesehatan Kerja Untuk Pengusaha, Pemilik, dan Manajer di Tempat Kerja. Rajawali Buana Pustaka, 2020 (*The translation of the guidance book ‘Creating a Safe and Healthy Workplace - A Guide to Occupational Health and Safety for Entrepreneurs, Owners and Managers’, sponsored by the International Commission on Occupational Health*).

MENCIPTAKAN TEMPAT KERJA YANG AMAN DAN SEHAT

Panduan Keselamatan dan Kesehatan Kerja
Untuk Pengusaha, Pemilik dan Manajer di Tempat Kerja



*International Commission on Occupational Health
Scientific Committee on Occupational Health and Development*

- J Tamin published the book 'Occupational Health Ethics: From theory to practice', Springer, May 2020. <https://link.springer.com/book/10.1007/978-3-030-47283-2>

SC Vibration and Noise (SC VN)

During the worst period of the pandemic, SC VN focused on the most effective disinfection techniques.

Two newsletter articles were published:

- Perspectives and cautions in the use of germicidal UV radiation in the conjuncture of the SARS-CoV-2 pandemic
- Perspectives and cautions in using ozone as air and surface disinfectant in the conjuncture of SARS-CoV-2 pandemic

Two technical documents were shared with ICOH members:

- Preliminary indications for the use of UV germicidal irradiation in the conjuncture of the COVID-19 pandemic
- Preliminary indications for the use of ozone as air and surface disinfectant in the conjuncture of the COVID-19 pandemic

SC Women, Health and Work (SC WHW)

One of the most relevant documents generated by the SC's numerous collaborative and networking activities, particularly in the Caribbean and Latin American countries, is the 'Rio Manifesto on Public Policies on Occupational Health', Brazil, 2018.

Publications:

- Proceedings of the XVI Latin American Congress on Occupational Health, incorporating the 'Panel on Women, Health and Work in Latin America: Challenges for working women in pandemic times' (Cartegena de Indias, Colombia and San José, Costa Rica, respectively - 2021). Published by ALSO – video proceedings, various authors, hardcopy and electronic publications)
- Bello I, Canova K. Technical Note - Women workers and COVID-19: Looking at four issues that put their health at risk. *ICOH Newsletter* Volume 18, No. 2, August 2020.

SC Work Disability Prevention and Integration (SC WDPI)

In 2019, the SC launched a new periodic E-newsletter and on-line presence (<https://www.wdpi.net/>) with administrative help from colleagues at the School of Public Health at Monash University. Individuals can register on-line to become part of the WDPI Global Scientific Community and receive regular newsletter updates. This more permanent website presence will improve the reach to researchers, practitioners, and educators in the field, especially those who are not ICOH members.

SC Work Organisation and Psychosocial Factors (SC WOPS)

- SC members Mikaela Owen, Tessa Bailey, Amy Zadow, and Maureen Dollard authored the report 'Global Working Conditions: Australia' - published by the European Foundation for the Improvement of Living and Working Conditions (Eurofound), 2019. Eurofound is a European Union Agency, whose role is to provide knowledge to assist in the development of better social, employment and work-related policies.
<https://www.eurofound.europa.eu/sites/default/files/wpef19056.pdf>
- SC members contributed to an enquiry by the Australian Government's Productivity Commission on mental illness covering content on psychosocial safety climate, bullying, WHS legislation and regulation. The Productivity Commission used much of this content in its report on psychological health and safety (particularly volume 2):
 - <https://www.pc.gov.au/inquiries/current/mental-health/draft/mental-health-draft-overview.pdf>
 - <https://www.pc.gov.au/inquiries/current/mental-health/draft/mental-health-draft-volume1.pdf>
 - <https://www.pc.gov.au/inquiries/current/mental-health/draft/mental-health-draft-volume2.pdf>

SC members contributed to a book titled 'Psychosocial Safety Climate: A new work stress theory' (2019) Dollard, Maureen F., Dormann, Christian, Idris, Mohd Awang (Eds.)
<https://www.springer.com/gp/book/9783030203184>

Addendum 2

Conferences of ICOH Scientific Committees

Summary of Conferences of Scientific Committees held during the full Triennium (May 2018 – February 2022)

For other events like seminars, workshops, courses, and webinars please refer to the Scientific Committees' Composite Midterm Report (February 2020) and the individual Scientific Committee Final Triennium Reports in this document (Addendum 3).

<u>Scientific Committee</u>	<u>Conference</u>	<u>Date</u>	<u>Venue</u>	<u>Role</u>
Cardiology in Occupational Health	XX Symposium: Work Hygiene - Current issues <i>Organised by the Polish Society of Occupational Hygienists</i>	16-18 October 2019	Łódź, Poland	Participants
	Health problems and risk factors related to teacher's work <i>Organised by the Nofer Institute of Occupational Medicine, Poland</i>	13 November 2019	Łódź, Poland	Participants
	Conference: World Day of Remembrance for Victims of Accidents at Work and Occupational Diseases <i>Organised by Trade Unions 'Solidarność'</i>	21 September 2020	Łódź, Poland	Participants
	Conference: World Day of Remembrance for Victims of Accidents at Work and Occupational Diseases <i>Organised by Trade Unions "Solidarność" and National Labour Inspectorate</i>	26 April 2021	Łódź, Poland	Participants

	XXI Symposium: Work Hygiene - Current issues <i>Organised by the Polish Society of Occupational Hygienists</i>	22-24 September 2021	Łódź, Poland	Participants
Education and Training in Occupational Health	1 st Congress of Occupational Physicians in Bulgaria: Occupational Health and Employability Expertise	7-8 November 2018	Sofia, Bulgaria	Co-organiser with the Faculty of Public Health, University of Sofia, Bulgaria
	Symposium: Health systems in OSH, online information and basic occupational health care <i>Organised by Center of International Health of the Ludwig Maximilian University</i>	March 2019	Munich, Germany	Co-organiser in collaboration with the Learning and Developing Occupational Health Foundation (LDOH)
	3 rd International Occupational and Environmental Diseases Congress <i>Organised by Ministry of Health, Republic of Turkey and Biocidal OEH Association</i>	3-7 March 2019	Antalya, Turkey	Co-organiser with three other ICOH SCs: Rural Health, Mining OSH, Occupational Toxicology
	The International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch <i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH</i>	28 January – 1 February 2020	Mumbai, India	Eight ICOH SCs were co-organisers and participants: Education and Training in Occupational Health (SC ETOH) Effectiveness in Occupational Health Services (SC EOHS) Rural Health: Agriculture,

	<i>scientific programme for OCCUCON 2020)</i>			Pesticides and Organic Dusts Mining Occupational Safety and Health (SC MinOSH) Occupational Health in the Construction Industry Occupational Health and Development Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS) Occupational Health in the Chemical Industry (SC MEDICHEM)
Effectiveness in Occupational Health Services	PREMUS 2019 - 10 th International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders <i>Organised by SC on Musculoskeletal Disorders</i>	2 – 5 September 2019	Bologna, Italy	Co-organiser of the Conference, with SC on Musculoskeletal Disorders SC EOHS contributed Oral Session
	Symposium: Effectiveness of interventions to prevent low back pain: Insights from the field, held within PREMUS 2019	4 September 2019	Bologna, Italy	Organiser of the Symposium
	The International Conclave on Occupational Health	28 January – 1 February 2020	Mumbai, India	Eight ICOH SCs were co-

	<p>(OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68th Annual Conference of the IAOH Mumbai Branch</p> <p><i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH scientific programme for OCCUCON 2020)</i></p>			<p>organisers and participants:</p> <p>Education and Training in Occupational Health (SC ETOH)</p> <p>Effectiveness in Occupational Health Services (SC EOHS)</p> <p>Rural Health: Agriculture, Pesticides and Organic Dusts</p> <p>Mining Occupational Safety and Health (SC MinOSH)</p> <p>Occupational Health in the Construction Industry</p> <p>Occupational Health and Development</p> <p>Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS)</p> <p>Occupational Health in the Chemical Industry (SC MEDICHEM)</p>
Epidemiology in Occupational Health	27 th International Symposium on Epidemiology in	29 April – 2 May 2019	Wellington, New Zealand	SC EPICOH organised the Conference, with the Centre for

	Occupational Health (EPICOH 2019)			Public Health Research, Massey University
	28 th International Symposium on Epidemiology in Occupational Health (EPICOH 2021)	25 – 28 October 2021	Virtual Conference (Montreal, Canada)	SC EPICOH organised the Conference
History of Prevention of Occupational and Environmental Diseases	SASOM-MEDICHEM Joint Congress <i>Co-organised by MEDICHEM and SASOM</i>	31 July - 3 August 2019	Kempton Park, Gauteng, South Africa	Participant SC History was invited by the Organisers to present on the work of SC History
Industrial Hygiene	IOHA2018 <i>Organised American Industrial Hygiene Association (AIHA), and International Occupational Hygiene Association (IOHA)</i>	24-26 September 2018	Washington, DC, USA	Participants
	27 th International Symposium on Epidemiology in Occupational Health (EPICOH 2019)	29 April – 2 May 2019	Wellington, New Zealand	Participants
	SASOM-MEDICHEM Joint Congress <i>Co-organised by MEDICHEM and SASOM</i>	31 July - 3 August 2019	Kempton Park, Gauteng, South Africa	Participants SC IH was invited by the Organisers to present on the work of SC IH
	The 2 nd International Industrial and Environmental Toxicology Congress - IETOX 2020 <i>Organised by the Industrial Toxicology Association</i>	18 – 22 November 2020	Virtual Congress	Participants and presenters SC IH contributed an Industrial Hygiene session to the conference
Mining Occupational Safety and Health	3 rd International Occupational	3-7 March 2019	Antalya, Turkey	Co-organiser with three other ICOH SCs: Rural Health,

	Environmental Diseases Congress <i>Organised by Ministry of Health, Republic of Turkey and Biocidal OEH Association</i>			Education and Training in OH, Occupational Toxicology
	SASOM-MEDICHEM Joint Congress <i>Co-organised by MEDICHEM and SASOM</i>	31 July - 3 August 2019	Kempton Park, Gauteng, South Africa	Participants SC Mining OSH was invited by the Organisers to present on the work of SC MinOSH
	2 nd International Conference on Mining Occupational Safety and Health (ICOH SC on MinOSH), and the 13 th Indonesian Occupational Medicine Update (IOMU)	6-8 October 2019	Bali, Indonesia	SC MinOSH organised the conference in collaboration with the Indonesian Society of Occupational Medicine
	The International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch <i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH scientific programme for OCCUCON 2020)</i>	28 January – 1 February 2020	Mumbai, India	Eight ICOH SCs were co-organisers and participants: Education and Training in Occupational Health (SC ETOH) Effectiveness in Occupational Health Services (SC EOHS) Rural Health: Agriculture, Pesticides and Organic Dusts Mining Occupational Safety and Health

				(SC MinOSH) Occupational Health in the Construction Industry Occupational Health and Development Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS) Occupational Health in the Chemical Industry (SC MEDICHEM)
Musculoskeletal Disorders	PREMUS 2019 - 10 th International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders	2 – 5 September 2019	Bologna, Italy	Organiser of the Conference, in collaboration with SC on Effectiveness in Occupational Health Services
Nanomaterials Workers' Health	11 th International Symposium on Biological Monitoring in Occupational and Environmental Health (ISBM-11) <i>Organised by SC on Occupational Toxicology</i>	28-30 August 2019	Leuven, Belgium	Co-organiser with two other SCs: Toxicology of Metals and Rural Health
Neurotoxicology and Psychophysiology	17 th Meeting of the International Neurotoxicology Association (INA-17)	29 September – 3 October 2019	Düsseldorf, Germany	Participants
	Symposium: Integrating human and animal studies to develop mechanistically based	29 September – 3 October 2019	Düsseldorf, Germany	Symposium organiser and presenter

	biomarkers of neurotoxicity: A case study of occupational chlorpyrifos exposure, held within INA-17			
	32 nd Annual Conference of the International Society for Environmental Epidemiology (ISEE): 'Seasonal Pesticide Use and Transient Physiological and Mental Health Alterations from Childhood to Adulthood' <i>Organised by ISEE</i>	24 - 27 August 2020	Virtual Conference	Participant and presenter
Occupational and Environmental Dermatoses	24 th World Congress of Dermatology <i>Organised by Italian Society of Dermatology (SIDeMaST), International League of Dermatological Societies (ILDS)</i>	10 – 15 June 2019	Milan, Italy	Co-organiser with SC Radiation and Work
	SASOM-MEDICHEM Joint Congress <i>Co-organised by MEDICHEM and SASOM</i>	31 July - 3 August 2019	Kempton Park, Gauteng, South Africa	Participants SC on Occupational and Environmental Dermatoses was invited by the Organisers to present on the work of SC OED
	11 th Joint Conference on Occupational Health for Health Workers 'Global Shortage of Health Workers' – OHHW 2019 <i>Organised by SC on Occupational Health for Health Workers</i>	22-24 October 2019	Hamburg, Germany	Co-organiser with SC on Women, Health and Work, the Working Group on Occupational Infectious Agents, as well as ISSA

	‘Occupational skin cancer and protection at the workplace’ workshop, in the framework of the 5 th International UV and Skin Cancer Conference <i>Organised by the European Society of Skin Cancer Prevention (Euroskin)</i>	7-9 September 2021	Online Events	The satellite workshop was organised by ICOH SC OED together with ICOH SC on Radiation and Work. SC leadership chaired and moderated the workshop. ICOH President, Dr Jukka Takala, gave a presentation and attended the panel discussion.
Occupational Health Nursing	Conference of the South African Society of Occupational Health Nursing Practitioners (SASOHN)	29 October - 1 November 2019	Pretoria, South Africa	Participants Chair of SC on Occupational Health Nursing was a member of the Conference Planning Committee
	SASOM-MEDICHEM Joint Congress <i>Co-organised by MEDICHEM and SASOM</i>	31 July - 3 August 2019	Kempton Park, Gauteng, South Africa	Participants SC on Occupational Health Nursing was invited by the Organisers to present on the work of SC OHN
Occupational Medicine	EPICOH2019	29 April – 2 May 2019	Wellington, New Zealand	Co-organiser with Modernet
Occupational Toxicology	11 th International Symposium on Biological Monitoring in Occupational and Environmental Health (ISBM-11)	28-30 August 2019	Leuven, Belgium	Organiser of the Symposium, in collaboration with three other SCs: Nanomaterials Workers’ Health, Toxicology of Metals, and Rural Health

	SASOM-MEDICHEM Joint Congress <i>Co-organised by MEDICHEM and SASOM</i>	31 July - 3 August 2019	Kempton Park, Gauteng, South Africa	Participants SC on Occupational Toxicology was invited by the Organisers to present on the work of SC OT
Occupational Health and Development	The International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch <i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH scientific programme for OCCUCON 2020)</i>	28 January – 1 February 2020	Mumbai, India	Eight ICOH SCs were co- organisers and participants: Education and Training in Occupational Health (SC ETOH) Effectiveness in Occupational Health Services (SC EOHS) Rural Health: Agriculture, Pesticides and Organic Dusts Mining Occupational Safety and Health (SC MinOSH) Occupational Health in the Construction Industry Occupational Health and Development Occupational Health in Small- Scale Enterprises

				<p>and the Informal Sector (SC OHSSEIS)</p> <p>Occupational Health in the Chemical Industry (SC MEDICHEM)</p>
	<p>9th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH'</p> <p><i>Organised by ASSP – India Chapter</i></p>	<p>28 – 29 April 2021</p>	<p>Online Conference</p>	<p>Co-organised by the University of Calcutta and four ICOH SCs:</p> <p>ICOH SC on Occupational Health in the Construction Industry (SC OHCI)</p> <p>ICOH SC on Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS)</p> <p>ICOH SC on Rural Health: Agriculture, Pesticides and Organic Dusts (SC RH)</p> <p>ICOH SC on Occupational Health and Development (SC OHDev)</p> <p>The chairs of each SC delivered a welcoming address and each SC organised and chaired a technical session where free</p>

				papers were presented
Occupational Health for Health Workers	11 th Joint Conference on Occupational Health for Health Workers 'Global Shortage of Health Workers' – OHHW 2019	22-24 October 2019	Hamburg, Germany	Organiser of the Conference, in collaboration with two other SCs: Women, Health and Work and Occupational and Environmental Dermatoses, as well as the Working Group on Occupational Infectious Agents and ISSA
Occupational Health in the Chemical Industry (MEDICHEM)	SASOM-MEDICHEM Joint Congress	31 July – 3 August 2019	Kempton Park, Gauteng, South Africa	<p>MEDICHEM organised the Congress in collaboration with SASOM.</p> <p>Six SCs participated – representatives were invited to present on the work of their SCs: History of the Prevention of Occupational and Environmental Diseases; Mining Occupational Safety and Health; Occupational Health Nursing; Occupational and Environmental Dermatoses; Occupational Toxicology; and Industrial Hygiene</p>
	The International Conclave on Occupational Health	28 January – 1 February 2020	Mumbai, India	Eight ICOH SCs were co-

	<p>(OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68th Annual Conference of the IAOH Mumbai Branch</p> <p><i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH scientific programme for OCCUCON 2020)</i></p>			<p>organisers and participants:</p> <p>Education and Training in Occupational Health (SC ETOH)</p> <p>Effectiveness in Occupational Health Services (SC EOHS)</p> <p>Rural Health: Agriculture, Pesticides and Organic Dusts</p> <p>Mining Occupational Safety and Health (SC MinOSH)</p> <p>Occupational Health in the Construction Industry</p> <p>Occupational Health and Development</p> <p>Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS)</p> <p>Occupational Health in the Chemical Industry (SC MEDICHEM)</p>
Occupational Health in the Construction Industry	OCCUCON 2019 - 69 th National Conference of the Indian Association of	January 2019	Gujarat, India	Co-organiser

	Occupational Health (IAOH)			
	7 th Professional Development Conference of American Society of Safety Professionals (ASSP) – India Chapter <i>Organised by ASSP – India Chapter</i>	27 - 28 April 2019	Chennai, India	Co-organiser with SC on Occupational Health in Small-Scale Enterprises and the Informal Sector and SC on Rural Health
	The International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch <i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH scientific programme for OCCUCON 2020)</i>	28 January – 1 February 2020	Mumbai, India	<p>Eight ICOH SCs were co-organisers and participants:</p> <p>Education and Training in Occupational Health (SC ETOH)</p> <p>Effectiveness in Occupational Health Services (SC EOHS)</p> <p>Rural Health: Agriculture, Pesticides and Organic Dusts</p> <p>Mining Occupational Safety and Health (SC MinOSH)</p> <p>Occupational Health in the Construction Industry</p> <p>Occupational Health and Development</p> <p>Occupational Health in Small-</p>

				<p>Scale Enterprises and the Informal Sector (SC OHSSEIS)</p> <p>Occupational Health in the Chemical Industry (SC MEDICHEM)</p>
	<p>8th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter <i>Organised by (ASSP) – India Chapter</i></p>	27 June 2020	Online Conference	<p>Co-organised by the National Institute of Industrial Engineering (NITIE) and SC on Occupational Health in the Construction Industry and SC on Rural Health</p>
	<p>4th International and 22nd Turkish National Congress on Public Health <i>Organised by the Association of Public Health Specialists (HASUDER)</i></p>	17 December 2020	Online Congress	<p>The Chair of the SC on Occupational Health in the Construction Industry gave a presentation at the congress</p>
	<p>9th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH' <i>Organised by ASSP – India Chapter</i></p>	28 – 29 April 2021	Online Conference	<p>Co-organised by the University of Calcutta and four ICOH SCs:</p> <p>ICOH SC on Occupational Health in the Construction Industry (SC OHCI)</p> <p>ICOH SC on Occupational Health in Small Scale Enterprises</p>

				<p>and the Informal Sector (SC OHSSEIS)</p> <p>ICOH SC on Rural Health: Agriculture, Pesticides and Organic Dusts (SC RH)</p> <p>ICOH SC on Occupational Health and Development (SC OHDev)</p> <p>The chairs of each SC delivered a welcoming address and each SC organised and chaired a technical session where free papers were presented</p>
Radiation and Work	<p>3rd Management Committee Meeting of the European COST Action 'CA16216'</p> <p>OMEGA-NET - Network on the Coordination and Harmonisation of European Occupational Cohorts</p> <p><i>Organised by European COST Action 'CA16216'</i></p>	11-12 October 2018	Porto, Portugal	<p>Participants</p> <p>SC on Radiation and Work collaborated. The activities of the Working Group 3 aimed at developing standardised protocols for future occupational exposure and health outcome information</p>
	<p>V. Occupational Health and Safety Physical Factors Symposium</p> <p><i>Organised by Hacettepe University of Ankara</i></p>	22 November 2018	Ankara, Turkey	Participants

	24 th World Congress of Dermatology <i>Organised by Italian Society of Dermatology (SIDeMaST), International League of Dermatological Societies (ILDS)</i>	10 – 15 June 2019	Milan, Italy	Co-organiser with SC on Occupational and Environmental Dermatoses
	2020 IEEE - International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe) <i>Organised by IEEE</i>	9 – 12 June 2020	Online Conference (from Madrid, Spain)	The SC on Radiation and Work organised Session 5 – ‘New Technologies for Safety in Working Environments’ and contributed presentations on the evaluation of occupational solar UV exposure in outdoor workers and on the indications for the prevention of the occupational risk related to non-ionizing radiation exposure
	Annual 2020 and 2021 Management Committee Meeting of the European COST Action ‘CA16216’ OMEGA-NET - Network on the Coordination and Harmonisation of European Occupational Cohorts and an online webinar on ‘Occupational Skin Diseases’ <i>Organised by European COST Action ‘CA16216’</i>	Conferences: 21-22 October 2020 + 20-21 October 2021 Webinar: 16 March 2021	Online Events	The ICOH SC on Radiation and Work contributed to the activities of ‘Working Group 3’ aimed at developing standardised protocols for future occupational exposure and health outcome information. The ICOH SC on Radiation and

				Work is involved with ICOH SC on Occupational and Environmental Dermatoses in Task 3.4 'Occupational Skin Diseases'
	'Occupational skin cancer and protection at the workplace' workshop, in the framework of the 5 th International UV and Skin Cancer Conference <i>Organised by the European Society of Skin Cancer Prevention (Euroskin)</i>	7-9 September 2021	Online Events	The satellite workshop was organised by ICOH SC OED together with ICOH SC on Radiation and Work. SC leadership chaired and moderated the workshop. ICOH President, Dr Jukka Takala, gave a presentation and attended the panel discussion.
	XXII World Congress on Safety and Health at Work <i>Organised by the International Social Security Association (ISSA) and the International Labour Organization (ILO)</i>	20-23 September 2021	Online Congress (Canada)	Co-organised by the Institute for Work and Health (IWH), Canada and the Canadian Centre for Occupational Health and Safety (CCOHS) ICOH SC on Radiation and Work participated and started the development of further OSH prevention activities in collaboration with ISSA and ILO

Reproductive Hazards in the Workplace	2018 International Symposium of Reproductive Hazards in the Workplace and Environment (RHICOH)/Maternity Protection at Work	21-24 June 2018	Taipei, Taiwan	Organiser of the Conference, in collaboration with ISEE-AC, National Taiwan University and National Health Research Institutes
Respiratory Disorders	Numerous trainings, workshops and courses on reading of radiographs for Pneumoconioses according to ILO classification	2018-2019	Germany, Romania, Brazil, Italy, Thailand, Indonesia, Viet Nam, South Africa, Japan	Organisers, trainers, participants
	Asian Intensive Reading of Radiographs for Pneumoconioses according to ILO classification (AIR Pneumo) Workshops <i>Organised by the SC on Respiratory Disorders in collaboration with the Japan Society for Occupational Health Pneumoconioses Study Group and local governments and societies</i>	23 rd AIR Pneumo Workshop - February 2020 24 th AIR Pneumo Workshop - December 2020 25 th AIR Pneumo Workshop - 2021	Jakarta, Indonesia Bangkok, Thailand Kochi, Japan	Organisers, trainers, participants Organisers, trainers, participants Organisers, trainers, participants
Rural Health: Agriculture, Pesticides, Organic Dusts	20 th Congress of the International Association of Rural Health and Medicine <i>Organised by International Association of Rural Medicine and Health</i>	10 – 12 October 2018	Tokyo, Japan	Collaborators, Keynote speakers, participants
	The First International Congress on Occupational Medicine and Expertise of Work	7 – 8 November 2018	Sofia, Bulgaria	Keynote speaker, participants

	Ability with EPSILON Project <i>Organised by the Medical University Sofia, Bulgarian Academic Society for Occupational Medicine and EPSILON</i>			
	3 rd International Occupational Environmental Diseases Congress <i>Organised by Ministry of Health, Republic of Turkey and Biocidal OEH Association</i>	3-7 March 2019	Antalya, Turkey	Co-organiser with three other ICOH SCs: Education and Training in OH, Occupational Toxicology, SC Mining OSH
	7 th Professional Development Conference of American Society of Safety Professionals (ASSP) – India Chapter <i>Organised by ASSP – India Chapter</i>	27-28 April 2019	Chennai, India	Collaborator with SC on Occupational Health in Small-Scale Enterprises and the Informal Sector and SC on Occupational Health in Construction Industry
	International Conference on Pesticide Politics in Africa <i>Organised by the French National Centre for Scientific Research, French National Institute for Agricultural Research, Tropical Pesticide Research Institute – Tanzania</i>	29-31 May 2019	Arusha, Tanzania	Participants Representation on the Scientific Committee of the Conference
	IUTOX 15 th International Congress of Toxicology <i>Organised by International Union of Toxicology (IUTOX) and Society of Toxicology (SOT)</i>	15-18 July 2019	Honolulu, Hawaii, USA	Participants

	<p>11th International Symposium on Biological Monitoring in Occupational and Environmental Health (ISBM-11)</p> <p><i>Organised by SC Occupational Toxicology</i></p>	28-30 August 2019	Leuven, Belgium	Co-organiser with two other SCs: Nanomaterials Workers' Health and Toxicology of Metals
	<p>The International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68th Annual Conference of the IAOH Mumbai Branch</p> <p><i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH scientific programme for OCCUCON 2020)</i></p>	28 January – 1 February 2020	Mumbai, India	<p>Eight ICOH SCs were co-organisers and participants:</p> <p>Education and Training in Occupational Health (SC ETOH)</p> <p>Effectiveness in Occupational Health Services (SC EOHS)</p> <p>Rural Health: Agriculture, Pesticides and Organic Dusts</p> <p>Mining Occupational Safety and Health (SC MinOSH)</p> <p>Occupational Health in the Construction Industry</p> <p>Occupational Health and Development</p> <p>Occupational Health in Small-Scale Enterprises and the Informal Sector</p>

				(SC OHSSEIS) Occupational Health in the Chemical Industry (SC MEDICHEM)
	4 th International Occupational and Environmental Diseases Congress <i>Organised by the Biocidal Occupational and Environmental Health Association and Ministry of Health, Turkey</i>	5 – 8 March 2020	Istanbul, Turkey	SC on Rural Health collaborated with SC on Radiation and Work. SC on Rural Health members were in the Organising and Scientific Committees and delivered presentations
	8 th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter <i>Organised by ASSP – India Chapter</i>	27 June 2020	Online Conference	Co-organised by the National Institute of Industrial Engineering (NITIE) and the Scientific Committees on Occupational Health in the Construction Industry and Rural Health
	International Biocidal Congress, Turkey <i>Organised by the Biocidal Occupational and Environmental Health Association, Cukurova University and Ege University, Turkey</i>	5 – 7 March 2021	Online Congress	The SC on Rural Health collaborated – members were on the Organising and Scientific Committees and delivered inaugural and keynote presentations
	9 th Annual Professional Development Conference of the	28 – 29 April 2021	Online Conference	Co-organised by the University of

	<p>American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH'</p> <p><i>Organised by ASSP – India Chapter</i></p>			<p>Calcutta and four ICOH SCs:</p> <p>ICOH SC on Occupational Health in the Construction Industry (SC OHCI)</p> <p>ICOH SC on Occupational Health in Small Scale Enterprises and the Informal Sector (SC OHSSEIS)</p> <p>ICOH SC on Rural Health: Agriculture, Pesticides and Organic Dusts (SC RH)</p> <p>ICOH SC on Occupational Health and Development (SC OHDev)</p> <p>The chairs of each SC delivered a welcoming address and each SC organised and chaired a technical session where free papers were presented</p>
	<p>XXII World Congress on Safety and Health at Work</p> <p><i>Organised by the International Social Security Association (ISSA) and the</i></p>	20-23 September 2021	Online Congress (Canada)	Co-organised by the Institute for Work and Health (IWH), Canada and the Canadian Centre for Occupational

	<i>International Labour Organization (ILO)</i>			Health and Safety (CCOHS) ICOH SC on Rural Health participated and the SC Chair presented in two sessions - ISSA Transportation and ISSA Agriculture
Shiftwork and Working Time	5 th and 6 th Working Hours in the Nordic Countries (WINC) – Symposia <i>Organised by National Research Centre for the Working Environment, Copenhagen, Denmark</i>	31 May 2018 + 14 May 2019	Copenhagen, Denmark	Co-organiser with Finnish Institute of Occupational Health, Stockholm University, National Institute of Occupational Health (STAMI) Norway
	The 4 th Annual Meeting of Working Time Society – Japan <i>Organised by Working Time Japan Society</i>	23 April 2019	Tokyo, Japan	Co-organiser with SC on Work Organisation and Psychosocial Factors
	24 th International Symposium on Shiftwork and Working Time	10-13 September 2019	Idaho, USA	Organiser of the Symposium in collaboration with Brazilian Sleep Society, Integrated Safety Support, National Institute of Occupational Safety and Health (NIOSH)
	7 th Symposium of the German Language Working Time Society (Arbeitszeitgesellschaft)	11 October 2019	Vienna, Austria	Co-organiser with Fribourg University, Federal Institute for Occupational Safety and Health of Germany, University of Bochum

	8 th Symposium of the German Language Working Time Society (Arbeitszeitgesellschaft)	9 October 2020	Virtual Event	Participant
	9 th Symposium of the German Language Working Time Society (Arbeitszeitgesellschaft)	1 October 2021	University of Fribourg, Switzerland	Participant
Occupational Health in Small-Scale Enterprises and the Informal Sector	7 th Professional Development Conference of American Society of Safety Professionals (ASSP) – India Chapter <i>Organised by ASSP – India Chapter</i>	27-28 April 2019	Chennai, India	Co-organiser with SC on Occupational Health in the Construction Industry and SC on Rural Health
	The International Conclave on Occupational Health (OCCUCON 2020) – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch <i>Organised by IAOH, in close collaboration with ICOH SC ETOH and SC EOHS – these SCs took the lead for the ICOH scientific programme for OCCUCON 2020)</i>	28 January – 1 February 2020	Mumbai, India	<p>Eight ICOH SCs were co-organisers and participants:</p> <p>Education and Training in Occupational Health (SC ETOH)</p> <p>Effectiveness in Occupational Health Services (SC EOHS)</p> <p>Rural Health: Agriculture, Pesticides and Organic Dusts</p> <p>Mining Occupational Safety and Health (SC MinOSH)</p> <p>Occupational Health in the</p>

				<p>Construction Industry</p> <p>Occupational Health and Development</p> <p>Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS)</p> <p>Occupational Health in the Chemical Industry (SC MEDICHEM)</p>
	<p>9th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH'</p> <p><i>Organised by ASSP – India Chapter</i></p>	<p>28 – 29 April 2021</p>	<p>Online Conference</p>	<p>Co-organised by the University of Calcutta and four ICOH SCs:</p> <p>ICOH SC on Occupational Health in the Construction Industry (SC OHCI)</p> <p>ICOH SC on Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS)</p> <p>ICOH SC on Rural Health: Agriculture, Pesticides and Organic Dusts (SC RH)</p> <p>ICOH SC on Occupational Health and</p>

				<p>Development (SC OHDev)</p> <p>The chairs of each SC delivered a welcoming address and each SC organised and chaired a technical session where free papers were presented</p>
Thermal Factors	27 th International Symposium on Epidemiology in Occupational Health (EPICOH 2019)	29 April – 2 May 2019	Wellington, New Zealand	Participants and contributors to 'Mini-Symposium on Climate Change'
	Impacts of Heat on Human Health and Performance Conference, <i>Organised by the University of Environment and Health, Japan</i>	26 - 27 October 2019	Kitakyushu, Japan	Participants
Toxicology of Metals	11 th International Symposium on Biological Monitoring in Occupational and Environmental Health (ISBM-11) <i>Organised by SC on Occupational Toxicology</i>	28 - 30 August 2019	Leuven, Belgium	Co-organiser with two other SCs: Nanomaterials Workers' Health and Rural Health
Unemployment, Job Insecurity and Health	Asian Ban Asbestos Networking Conference <i>Organised by Asia Ban Asbestos Network (ABAN)</i>	28 – 30 September 2021		<p>Participant</p> <p>The organisers proposed a Special Session about Asbestos Elimination in Asia for the ICOH2022 Congress</p>

Vibration and Noise	14 th International Conference on Hand-Arm Vibration <i>Organised by Institut für Arbeitsschutz der DGUV (IFA)</i>	21-24 May 2019	Bonn, Germany	Sponsor of the Conference
Women, Work and Health	ALSO Latin American Occupational Health Congress 2019 <i>Organised by the Latin American Occupational Health Society (ALSO)</i>	19 May 2019	Cartagena, Colombia	Co-organiser of a Special Session on Latin American Women and Work
	17 th ANAMT National Congress 2019 <i>Organised by the National Association of Occupational Medicine of Brazil (ANAMT)</i>	29 May 2019	Brasilia, Brazil	Co-organiser of a Special Session on Women's Health at Work
	11 th Joint Conference on Occupational Health for Health Workers 'Global Shortage of Health Workers' – OHHW 2019 <i>Organised by SC on Occupational Health for Health Workers</i>	22-24 October 2019	Hamburg, Germany	Co-organiser with SC on Occupational and Environmental Dermatoses and the Working Group on Occupational Infectious Agents, as well as ISSA
Work and Vision	2018 Australia and New Zealand Society of Occupational Medicine (ANZSOM) Annual Scientific Meeting and ANZSOM 50 th Anniversary	15 October 2018	Melbourne, Australia	Co-organiser
	2019 Australia and New Zealand Society of Occupational Medicine (ANZSOM) Annual Scientific Meeting	28 October 2019	Adelaide, Australia	Co-organiser
	Australasian Faculty of Occupational and	5 November 2019	Western Australia	Co-organiser

	Environmental Medicine (AFOEM)			
	2019 Peruvian Congress of Occupational Health <i>Organised by the Peruvian Society of Occupational Health (SOPESO)</i>	28-30 November 2019	Arequipa, Peru	Co-organiser
Work Disability Prevention and Integration	Work Disability Prevention and Integration Conference 2019 (WDPI2019)	5-7 June 2019	Odense, Denmark	Organiser of the Conference
Work Organisation and Psychosocial Factors	1 st Conference of the Asia Pacific Academy for Psychosocial Factors at Work: Macro to Micro Perspectives on Healthy Vital Work in the Asia Pacific	29-30 November 2018	Auckland, New Zealand	Participants Massey University coordinated the Conference

Addendum 3

Final Triennium Reports submitted by individual Scientific Committees for the reporting period January 2020 – February 2022



ICOH 2018-2022 TRIENNIUM SCIENTIFIC COMMITTEE FINAL REPORT Covering the period January 2020 – February 2022

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

**The SC Final Report covers the period January 2020 – February 2022.
Please submit it no later than October 24, 2021, to:**

Vice President: Claudina Nogueira	claudinanogueira@hotmail.com cmcanogueira@gmail.com
Secretariat General	icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:	24 October 2021
Submitted by SC:	Accident Prevention (SC AP)
Name of Chair:	Dr Su Wang
Year of Appointment:	2015
Email address:	su.wang@doctors.org.uk
Name of Secretary:	Dr Karen Michell
Year of Appointment:	2020
Email address:	karen.michell@iosh.com

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication: Nil**Focus and aim of the SC:**

Accident prevention encompasses plans, preparations and actions taken to avoid or stop an accident before it happens. Accidents can be classified as unplanned and unexpected events giving increased risk of injury, ill health, death and loss of property, damage to environment or any combination of these. Accident prevention includes all measures taken in an effort to save lives, escape from injury, lessen the degrees of injury, reduce loss of properties, treatment and compensation costs, production and time loss, and morale loss.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Virtual Meeting

Date: Scheduled for 12 January 2022

Number of attendees:

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	Menopause for thought: Managing the change at work				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	18 October 2021				
Venue:	Virtual event				
Organizers:	Institution of Occupational Safety and Health – UK (IOSH)				
Co-organizers and Collaborators: Please identify and describe roles.	The webinar was opened to all members of the SC Accident Prevention as part of an IOSH initiative. Emails were sent to the SC Women, Health and Work SC to request their involvement but no replies were received.				

Number of participants:	320 Representatives from 29 countries including SC AP members
Publication or provision of CD/DVD proceedings:	Recorded and loaded to youtube website: https://youtu.be/WkbCDdy_900
Book of abstracts:	Nil
Book of selected proceedings:	Nil
Special issue of peer reviewed journals:	Nil
Assessment of success / impact:	Doodle poll used: 65% stated content was excellent and 32% good

(2) Name of the event:	Healing the scars of the pandemic: Tackling a future of long COVID				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	19 August 2021				
Venue:	Virtual				
Organizers:	Institution of Occupational Safety and Health – UK (IOSH)				
Co-organizers and Collaborators: Please identify and describe roles.	Society of Occupational Medicine – UK provided a panelist				
Number of participants:	680 of 1474 registered attendees joined the session 70 countries were represented including SC AP members				
Publication or provision of CD/DVD proceedings:	Recorded and loaded to youtube website: https://youtu.be/oqzZwfOtTKA				
Book of abstracts:	Nil				

Book of selected proceedings:	Nil
Special issue of peer reviewed journals:	Nil
Assessment of success / impact:	The recording details were made available to all SC AP members to accommodate those who could not attend due to global time differences.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

- Efforts were made to engage with ICOH representatives for items 1 and 2 above. In the case of the long COVID webinar there was a positive response from ICOH to provide a speaker but nobody came forward to assist. Dr Karen Michell then presented a Powerpoint presentation as both an ICOH member and an IOSH researcher.
- For the menopause webinar emails were sent to the SC on Women, Health and Work but no response was received. Efforts were made to engage with other SCs and this will be repeated in the coming triennium.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH Organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating Organisation. Provide relevant details of collaborations **other than** conferences.)*

- The Institution of Occupational Safety and Health – UK (IOSH) has been collaborating extensively with SC AP and has made resources available to facilitate virtual meetings that have been planned for 2022.

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- A Special Session was requested for the ICOH2022 Congress. A session was made available and four speakers have been secured for the event.
- The SC AP business meeting is scheduled for 12 January 2022 to ensure all business is concluded and communicated to the ICOH Board before February 2022.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

None

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- A midterm meeting is being planned for late 2022 or early 2023. It is hoped this can be presented as a joint venture with other SCs. Conversations are being held to determine the feasibility of such a joint venture.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) Organisations:

*(Provide name of non-ICOH Organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- The Institution of Occupational Safety and Health – UK (IOSH) has agreed to continue to make all its free events available to SC AP members for the coming triennium.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

SC AP has struggled through the past few years. Without the necessary support of a Secretary and compounded by the impact of the COVID-19 pandemic, it was not possible to arrange specific SC AP events. As the appointment of a Secretary was key to recovery and sustainability of SC AP, all meagre resources and time were focused on this critical action. After several false starts, in November 2020 Dr Karen Michell was appointed to SC AP as the Secretary. Since this time efforts have been made to invigorate the SC. Due to global travel restrictions, it was necessary to arrange virtual events. This was achieved with the valuable support of IOSH who invited SC AP members to all its virtual events. Two very successful webinars were hosted and attended by SC AP members who gave positive feedback on the events. In addition, the recordings were made available to all SC AP members to facilitate viewing for all those who could not attend due to global time differences.

The coming years continue to present a challenge as we are unsure when global travel will resume, and we are able to once again meet face to face. Until it is clear what the future holds in terms of face to face events we will continue to engage with members virtually.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNium
SCIENTIFIC COMMITTEE FINAL REPORT
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Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

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Date:

29 November 2021

Submitted by SC:

Ageing and Work

Name of Chair:

Associate Professor Jodi Oakman

Year of Appointment:

2018

Email address:

j.oakman@latrobe.edu.au

Name of Secretary:

Dr Karin Proper

Year of Appointment:

2018

Email address:

karin.proper@rivm.nl

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Focus and aim of the SC:

The key aim of the SC on Ageing and Work is to provide a group with specialist interesting the areas of ageing and work.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

Business meetings: We have not held a business meeting since the last Congress.

Conferences, Seminars, Workshops, Courses, etc.:

Nil

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

On behalf of the SC on Ageing and Work, I have been engaged with other SCs and a publication has been submitted and accepted on Ageing and the Future of Decent work, citation below:

- Fischer FM, Martinez MC, Alfredo CH, et al. Ageing and the Future of Decent Work.
International Journal of Environmental Research and Public Health.
2021;18(17):8898.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating Organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

The SC Chair and Secretary have both contributed to two WHO/ILO-auspiced systematic reviews. Other members of the SC also contributed: Professor Clas Nygard and Dr Subas Neupane.

Hulshof, C. T., F. Pega, S. Neupane, C. Colosio, J. G. Daams, P. Kc, P. P. Kuijer, S. Mandic-Rajcevic, F. Masci and H. F. van der Molen (2021). "The effect of occupational

exposure to ergonomic risk factors on osteoarthritis of hip or knee and selected other musculoskeletal diseases: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury." Environment International: 106349.

Hulshof, C. T., F. Pega, S. Neupane, H. F. van der Molen, C. Colosio, J. G. Daams, A. Descatha, P. Kc, P. P. Kuijer and S. Mandic-Rajcevic (2021). "The prevalence of occupational exposure to ergonomic risk factors: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury." Environment international **146**: 106157.

Collaboration with non-ICOH Organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating Organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Our focus has been on the ICOH2022 Congress, as outlined in the previous report

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

Nothing planned as yet.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) Organisations:

*(Provide name of non-ICOH Organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

None

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

(Provide proposed title, authors, timeframe, publication vehicle, if possible.

**Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

None

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI - List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Title	First Name	Last Name	E-mail
Dr.	Patricia	AGUILERA	aguilalatina@gmail.com
Dr.	Angelika	BASHKIREVA	angel_darina@mail.ru
Dr.	Bart	VRIESACKER	Vriesacker@mensura.be
Dr.	Maria Claudia	BORDA GALLON	borda.mc@pg.com
Dr.	Rodrigo	BORNHAUSEN	rodrigo.demarch@me.com

Dr	Piera	BOSCHETTO	bsp@unife.it
Dr.	Julitta	BOSCHMAN	julitta_boschman@hotmail.com
Dr.	Lutgart	BRAECKMAN	lutgart.braeckman@ugent.be
Prof.	Rafael S.	CAREL	rcarel@research.haifa.ac.il
Dr.	Luenda E.	CHARLES	ley0@cdc.gov
Dr.	Angela	DE BOER	a.g.deboer@amc.nl
Dr.	Valerie	DELFOSE	valerie.delfosse@stm.lu
Prof.	Willem J.A.	GOEDHARD	wja.goedhard@hccnet.nl;
Prof.	Hans-Martin	HASSELHORN	hasselhorn@uni-wuppertal.de
Dr.	Philippe	KISS	philippe.kiss@securex.be
Dr.	Margaret Mary	KITT	ajy8@cdc.gov
Prof.	Masaharu	KUMASHIRO	m-kuma@med.uoeh-u.ac.jp
Dr.	Noemia	LOIO	noemialoiom@gmail.com
Dr.	Ashok Narayandas	LADDHA	mynameladdha@gmail.com
Dr.	Nicole	MAJERY	nicole.majery@stm.lu
	Denise	MINNIE	dminnie@randwater.co.za
Dr.	Subas	NEUPANE	subas.neupane@uta.fi
Prof.	Clas-Håkan	NYGÅRD	clas-hakan.nygard@uta.fi
Dr.	Jodi	OAKMAN	j.oakman@latrobe.edu.au
Dr.	Haruka	ODOI	h-odoi@med.uoeh-u.ac.jp
Mr.	Mohamed Abdelmaksoud	OMAIRA	moh_safety55@hotmail.com
Dr.	Elisabeta	PLETEA	elisabeta1979@yahoo.com
Mr.	Luiz Cesar	PRACA	luizcpraca@terra.com.br
Mr.	Paul	ROTHMORE	paul.rothmore@adelaide.edu.au
	Ernesto	SÁNCHEZ RODRÍGUEZ	cuau57@hotmail.com
Dr.	Milena Petkova	TABANSKA	milena_tabanska@abv.bg
	Tianan	YANG	tianan.yang@bit.edu.cn
Dr.	Cunningham	CATITRONA	caitriona.g.cunningham@ucd.ie
Dr.	Karin	PROPER	karin.proper@rivm.nl
Dr.	Miguel	ACEVEDO ÁLVAREZ	macevedo@ucsh.cl
Dr.	Mayra	GARRAFA	mayragarrafa@gmail.com
	Julia	SECO ORRIOLS	julia_98_so@hotmail.com

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



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Date:

25 October 2021

Submitted by SC:

Allergy and Immunotoxicology

Name of Chair:

Claudia Petrarca

Year of Appointment:

2019

Email address:

claudia.petrarca@unich.it

Name of Secretary:

Hiroo Wada

Year of Appointment:

2020

Email address:

h-wada@juntendo.ac.jp

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication

The SC has liaised with the following SCs:

- Indoor Air Quality and Health
- Respiratory Disorders
- Nanomaterial Workers' Health
- Occupational and Environmental Dermatoses

Focus and aim of the SC:

Experimental and clinical research on allergic and immunotoxicological conditions caused by exposure to occupational and environmental biological and chemical agents with particular focus on the underlying pathophysiological mechanisms.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

Business meetings:

Business meetings have not been held by our SC in this period. Instead of holding meetings, we published an eBook organised by the SC on Allergy and Immunotoxicology (see also next paragraph).

The eBook is available online:

<https://link.springer.com/book/10.1007%2F978-981-15-4735-5>

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The 77 th Meeting for Japanese AITSC members, at the 93 rd Conference of the Japanese Society for Occupational Health (JSOH) 2020 in Asahikawa, Japan				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	15 May 2020				
Venue:	Asahikawa ART HOTEL Asahikawa 6 7-jo-dori, Asahikawa-shi, Hokkaido, 070-0037, Japan				
Organizers:	Professor Takehiko Yoshida (Asahikawa Medical University)				
Co-organizers and Collaborators: Please identify and describe roles.	<p><i>Chair(s):</i> Yasuo Morimoto (University of Occupational and Environmental Health, Japan) Hiroo Wada (Juntendo University)</p> <p><i>Speakers:</i> Kazuhiko Kakuta (Kakuta Kodomo & Allergy Clinic) Yasuo Morimoto (University of Occupational and Environmental Health, Japan) Atsushi Ueda (East Asian Health Promotion Network (NPO)) Hiroo Wada (Juntendo University)</p>				
Number of participants:	Around 100				

Publication or provision of CD/DVD proceedings:	N/A
Book of abstracts:	N/A
Book of selected proceedings:	N/A
Special issue of peer reviewed journals:	Tsunoda K. <i>Jpn J Ind Health</i> .2020; 62 (Suppl), 226. Morimoto Y, Nishida C, Tomonaga T, Izumi H. <i>Jpn J Ind Health</i> .2020; 62 (Suppl), 227. Ueda A. <i>Jpn J Ind Health</i> .2020; 62 (Suppl), 228. Wada H. <i>Jpn J Ind Health</i> .2020; 62 (Suppl), 229.
Assessment of success / impact:	Although the workshop was organised during the COVID-19 pandemic and the city Asahikawa was locked down, we organised an online meeting, attended by an audience of around 100 participants. In addition, to explore the new approach to the field of allergy and immunotoxicology, we discussed the common mechanism of allergic and immunotoxicological reactions to environmental exposure in various organs. Therefore, we believe the meeting was successful from the viewpoints of the number of attendees and the concept building.

(2) Name of the event:	The 78 th meeting for Japanese AITSC members, at the 94 th Conference of the Japanese Society for Occupational Health (JSOH) 2021 in Matsumoto, Japan				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	19 May 2021				
Venue:	Matsumoto - Matsumoto Performing Arts Centre 3-10-1, Fukushima, Matsumoto-shi, Nagano, 390-0811, Japan				
Organizers:	Professor Takahiko Yoshida (Asahikawa Medical University)				
Co-organizers and Collaborators: Please identify and describe roles.	<i>Chair(s):</i> Takehiko Yosida (Asahikawa Medical University) Hiroo Wada (Juntendo University) <i>Speaker(s):</i> Kunio Dobashi (Jobu Hospital for Respiratory Diseases) Etsushi Kuroda (Hyogo College of Medicine) Tatsuya Takeshita (Wakayama Medical University) Toshikazu Ushijima (National Cancer Center Japan)				
Number of participants:	Around 100				

Publication or provision of CD/DVD proceedings:	N/A
Book of abstracts:	N/A
Book of selected proceedings:	N/A
Special issue of peer reviewed journals:	Dobashi K. <i>Jpn J Ind Health</i> .2021; 63 (Suppl), 214. Kuroda E. <i>Jpn J Ind Health</i> .2021; 63 (Suppl), 215. Takeshita T. <i>Jpn J Ind Health</i> .2021; 63 (Suppl), 216. Ushijima T. <i>Jpn J Ind Health</i> .2021; 63 (Suppl), 217.
Assessment of success / impact:	This workshop was organised as the initial workshop of a planned series “Preventive and clinical medicine based on researches and practice in allergy & immunotoxicology”, based on the 77 th Meeting for Japanese AITSC members. We are currently planning the annual workshop series. In its first year, as many as 100 audience members participated, suggesting that our project was well recognised and supported by many researchers and practitioners and medics. Therefore, we rate our workshop successful and impacting.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

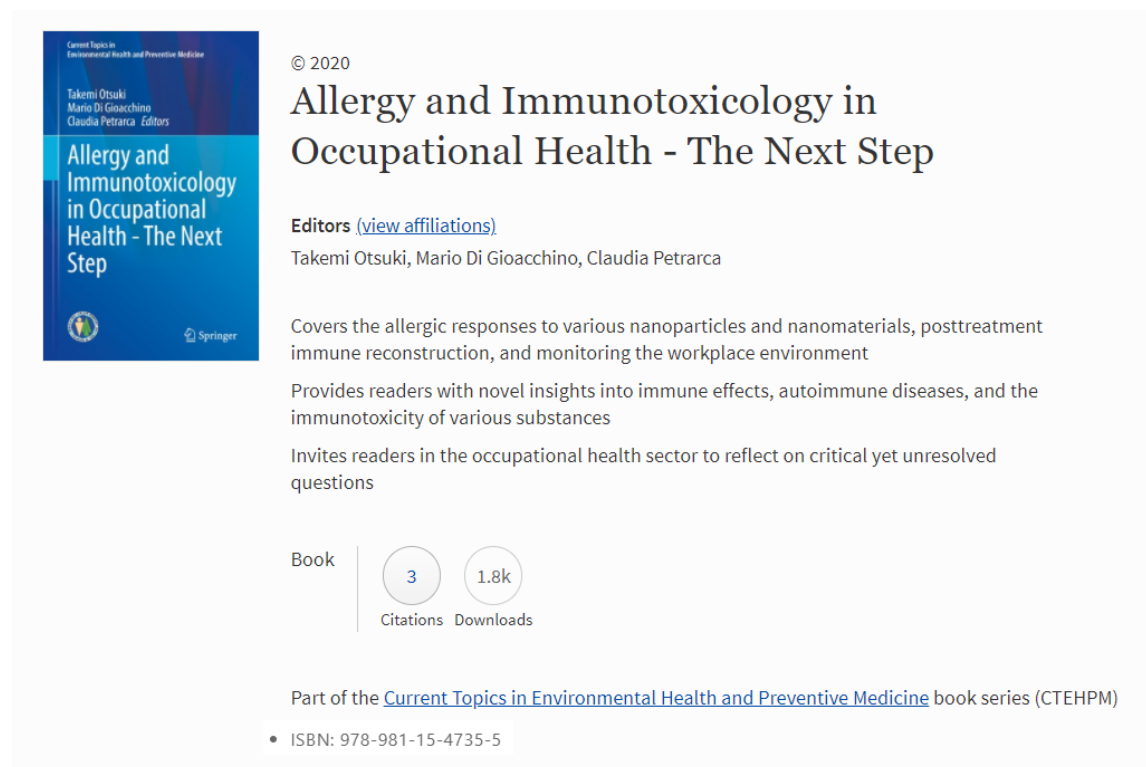
NOTE: Please do not repeat information already provided in the Midterm Report.

The SC on Allergy and Immunotoxicology has been engaged in the publication of a collaborative eBook on the topics of expertise. The eBook was edited by former Chairpersons, esteemed Professor Takemi Otsuki and Professor Mario Di Gioacchino, and co-edited by the current SC Chair, Professor Claudia Petrarca. The eBook was successfully published with the valuable contribution of other SC members, also expert in these fields. The eBook was published in the Series “Current Topics in Environmental Health and Preventive Medicine” with the title “Allergy and Immunotoxicology in Occupational Health – The Next Step” meaning that this is our second joint publication. This eBook presents a collection of the latest clinical and research findings in the field of allergy and immunotoxicology, covering the allergic responses to various nanoparticles and nanomaterials, post-treatment immune reconstruction, and monitoring the workplace environment. The eBook follows a predecessor book (also an activity of our SC, see previous ICOH 2015-2018 Triennium SC final report). Finally, the eBook has been downloaded 1800 times and cited twice, so far. This work has replaced the attendance at audience events which were not feasible during the COVID-19 pandemic.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

SC Collaborative eBook:



Chapters (14):

1. Mechanisms of Action of Inhaled Particulates on Allergic Lung Inflammation
Etsushi Kuroda
Pages 1-15
2. Metal Nanoparticle Health Risk Assessment
Luca Di Giampaolo, Claudia Petrarca, Rocco Mangifesta, Cosima Schiavone, Cinzia Pini, Alice Malandra et al.
Pages 17-35
3. Immune Toxicity of and Allergic Responses to Nanomaterials
Yasuo Yoshioka, Toshiro Hirai, Yasuo Tsutsumi
Pages 37-46
4. Inflammation and Environmental (Ultrafine) Nanoparticles
Francesca Larese Filon
Pages 47-56
5. Monitoring Nanomaterials in the Workplace
Adrienne C. Eastlake, Luca Fontana, Ivo Iavicoli
Pages 57-74
6. Immunotoxicity of Nanoparticles
Claudia Petrarca, Rocco Mangifesta, Luca Di Giampaolo

- Pages 75-94
7. Occupational Respiratory Allergic Diseases: Occupational Asthma
Sasho Stoleski
Pages 95-114
 8. Occupational Respiratory Allergic Diseases: Occupational Rhinitis
Sasho Stoleski
Pages 115-127
 9. Occupational Skin Diseases
Dragan Mijakoski
Pages 129-149
 10. Expanding Concept of Immune Reconstitution Inflammatory Syndrome: A New View Regarding How the Immune System Fights Exogenous Pathogens
Yumi Aoyama, Tetsuo Shiohara
Pages 151-169
 11. Workplace Risk Assessment in Occupational Allergology
Dragan Mijakoski, Sasho Stoleski
Pages 171-182
 12. Pesticide and Immunotoxicology
Tomoki Fukuyama, Risako Tajiki-Nishino
Pages 183-195
 13. Clinical Evaluation of Plasma Decoy Receptor 3 Levels in Silicosis
Sun Lee, Shoko Yamamoto, Hiroaki Hayashi, Hidenori Matsuzaki, Naoko Kumagai-Takei, Tamayo Hatayama et al.
Pages 197-213
 14. Reduction of Antitumor Immunity Caused by Asbestos Exposure
Naoko Kumagai-Takei, Sun Lee, Hidenori Matsuzaki, Megumi Maeda, Nagisa Sada, Min Yu et al.
Pages 215-227

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

Publication of eBook, as described above.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating Organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Nil

Collaboration with non-ICOH Organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating Organisation. Provide relevant details of collaborations **other than** conferences.)*

Nil

Any other points of relevance:

Nil

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Since the last communication, we have changed one speaker in our Special Session and, accordingly, their order of appearance, as described below:

SS03 – ‘Immunotoxicology in workplaces: Prevention, early detection, and treatment’

1. Yasumitsu Nishimura - Asbestos-caused key events of altered expression of gene in mesothelioma patients
2. Claudia Petrarca - Does microRNA characterized asbestos-related diseases?
3. Francesca Larese Filon - Green coffee allergy and exposure to nanoparticles in harbour workers
4. Hiroo Wada (AITSC) (et al.) - Check List for Workers Under Pandemics

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

Not planned yet.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

We would like to join up with the SC on Nanomaterials Workers’ Health.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH Organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

We are planning to talk to European Respiratory Society (ERS) and its Asian counterpart, Asia-Pacific Society for Respiriology (APSR). More details will be given as soon as available.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Nil

Any other points of relevance:

Nil

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The SC has provided novel insights into immune effects, autoimmune diseases, and the immunotoxicity of various substances, such as silica and asbestos, for professionals and students in the occupational health sector to reflect on critical yet unresolved questions. The SC further provides a foundation for future research on the health impairments resulting from environmental and occupational exposure to these substances. These achievements are recognisable by the ample audience of researchers and practitioners who attended the workshops and read our eBook.

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

h-wada@juntendo.ac.jp, nicola.murgia@unipg.it, angela.gambelunghe@unipg.it, larese@units.it, ivo.iavicoli@unina.it, y-yoshioka@biken.osaka-u.ac.jp, kuroetu@hyo-med.ac.jp, t-fukuyama@azabu-u.ac.jp, argiulio@flownet.it, anberga@tin.it, bernard@toxi.ucl.ac.be, sherwood.burge@heartofengland.nhs.uk, colosio-s@medlib2.kku.ac.th, claudio.colosio@unimi.it, lconde@isciii.es, fcarvalho@mail.cultura.com.br, dobashik@gunma-u.ac.jp, impx@porta.imp.lodz.pl, carlograndi@libero.it, dick.heederik@medew.heyli.wan.nl, kamijima@med.nagoya-

cu.ac.jp, kayamaf@jichi.ac.jp, rkishi@med.hokudai.ac.jp, y-kodama@mvj.biglobe.ne.jp, kumagai@med.kawasaki-m.ac.jp, yukik@u-fukui.ac.jp, slee@med.kawasaki-m.ac.jp, LiDH@ccs.capm.ac.cn, qing-li@nms.ac.jp, sanpo46@mxp.mesh.ne.jp, jmonro@breakspear.org, mosheshl@hotmail.com, nakayama@envi.med.osaka-u.ac.jp, m.m.amr@usa.net, ben.nemery@med.kuleuven.ac.be, ohsawa-m@pharm.teikyo-u.ac.jp, sxydwsxy@public.ty.sx.cn, nsuganuma@kochi-u.ac.jp, satokazu@u-fukui.ac.jp, ttakeshi@wakayama-med.ac.jp, koichi-t@shimadzu.co.jp, mtsunoda@med.kitasato-u.ac.jp, a-ueda@gpo.kumamoto-u.ac.jp, luigi.vimercati@uniba.it, hans.welinder@ymed.lu.se, gunilla.wieslander@medsci.uu.se, OttoWong@aol.com, tyoshida@asahikawa-med.ac.jp, matunhuv@staff.msu.ac.zw, Laura.Wengenroth@med.uni-muenchen.de, anna.fourie@nioh.nhls.ac.za, tanusha.singh@nioh.nhls.ac.za, brice.lodde@chu-brest.fr, lpkuzmina@mail.ru, jeroen.vanoirbeek@kuleuven.be, m.dovidio@inail.it, larese@units.it, jessica.stanhope@adelaide.edu.au, eva.helaskoski@ttl.fi, hmatsuzaki@med.kawasaki-m.ac.jp, yas@med.kawasaki-m.ac.jp

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

25 October 2021

Submitted by SC:

Cardiology in Occupational Health

Name of Chair:

Alicja Bortkiewicz

Year of Appointment:

2015

Email address:

alicja.bortkiewicz@imp.lodz.pl
or bortkiewicz.alicja@gmail.com

Name of Secretary:

Elzbieta Gadzicka

Year of Appointment:

2015

Email address:

egadzicka@gmail.com

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Focus and aim of the SC:

The ICOH Scientific Committee on Cardiology in Occupational Health (ICOH-CVD) serves a professional network of researchers, occupational health physicians and public health workers throughout the world concerned about the impact of work and work-related factors on cardiovascular health, in particular hypertension and ischemic heart disease (IHD). Linking economic globalization to the changing nature of work and its impact on

the risk of cardiovascular diseases (CVD), and focusing on research, worksite interventions, and public health, we are organised as an official committee of ICOH. Our work focuses on identifying work-related risk factors for CVD, including both the physical and psychosocial work environment, the interplay of social class, work and health, interventions to reduce the burden of unhealthy jobs, and public policy concerns to foster change in working conditions.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

ICOH Midterm Meeting of Officers, Board Members and SC Chairs

Venue: Rome

Date: February 11-13, 2020

Number of attendees: Approximately 45 persons

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): Minutes of the Joint Meeting of ICOH SCs and Board

There were no SC business meetings, except for the ICOH Midterm Meeting in Rome (above), due to the SARS-CoV-2 pandemic.

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	Conference: World Day of Remembrance for Victims of Accidents at Work and Occupational Diseases				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	21 September 2020				
Venue:	Polish-American Educational Center, Łódź, Poland				
Organizers:	Trade Unions "Solidarność"				
Co-organizers and Collaborators: Please identify and describe roles.	Nofer Institute of Occupational Medicine, Łódź, Poland and National Labour Inspectorate – preparing and presentation lectures for a conference.				
Number of participants:	100 persons				

Publication or provision of CD/DVD proceedings:	
Book of abstracts:	Yes
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success / impact:	Successful

(2) Name of the event:	Conference: World Day of Remembrance for Victims of Accidents at Work and Occupational Diseases				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	26 April 2021				
Venue:	Polish-American Educational Center, Łódź, Poland				
Organizers:	Trade Unions "Solidarność", National Labour Inspectorate				
Co-organizers and Collaborators: Please identify and describe roles.	Nofer Institute of Occupational Medicine, Łódź, Poland - preparing and presentation lecture for a conference				
Number of participants:	80 persons				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:	Yes				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:	Successful				

(3) Name of the event:	XXI Symposium: Work Hygiene - Current issues				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	22-24 September 2021				
Venue:	Łódź, Poland				
Organizers:	Polish Society of Occupational Hygienists				
Co-organizers and Collaborators: Please identify and describe roles.	None				
Number of participants:	100				
Publication or provision of CD/DVD proceedings:	Pen-drive proceedings				
Book of abstracts:	No				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success:	Successful				

Presentations at Conferences and Congresses (2020 and 2021):

Sørensen JK, Framke E, Pedersen J, Alexanderson K, Bonde JP, Farrant K, Flachs EM, Magnusson Hanson LL, Nyberg ST, Kivimäki M, Madsen IEH, **Rugulies R.** Work stress and loss of years lived without chronic disease: An 18-year prospective cohort study. *Paper presented at the World Congress of Epidemiology 2021 (WCE 2021).* Melbourne, Australia (Virtual Conference), September 3-6, 2021.

Rugulies R, Sørensen JK, Framke E, Madsen IEH. Annual changes in job strain and risk of coronary heart disease in Denmark. *Paper presented at the World Congress of Epidemiology 2021 (WCE 2021).* Melbourne, Australia (Virtual Conference), September 3-6, 2021.

Bortkiewicz A. Occupational risk factors for myocardial infarction and other cardiovascular diseases. World Day of Remembrance for Victims of Accidents at Work and Occupational Diseases (April 26, 2021, Lodz, Poland)

Bortkiewicz A. Aging and the risk of an accident at work. XXI Symposium: Work Hygiene - Current issues (September 22-24, 2021)

- Baert S, **Clays E**, Deros E, George B, Neyt B, Schollaert E, et al. Labour market policy if the general public was in charge. Vol. 176. IZA Institute of Labor Economics; 2021.
- Lukan J, Katrašnik M, Bolliger L, **Clays E**, Luštrek M. STRAW application for collecting context data and ecological momentary assessment. In: Slovenian Conference on Artificial Intelligence, IS 2020, Proceedings of the 23rd International Multiconference, 2020. p. 63–7.
- Rugulies R**, Vogel UB, Holtermann A. What do we know about cardiovascular disease across research fields? *Presentation at Science Friday at NRCWE*. Copenhagen, Denmark (Skype meeting), May 7, 2020.
- Rigo S, **Barbic F**, Minonzio M, Putti G, Bisoglio A, Romeo MA; Pellizon F; Kulangarathottiyil S; Bresciani L, Verzeletti P, Badilini P, Ciccarelli M, Bordoni MG, Furlan R. Sindrome disautonomica post-COVID-19: Valutazione mediante questionario COMPASS31 a un mese dalla dimissione ospedaliera. Congresso GIMSI, Napoli, July 2021.
- Capitanelli I, Minonzio M, Shiffer D, Dipaola F, Furlan R, **Barbic F**. Rischio cardiovascolare, orari e qualità degli alimenti in lavoratori turnisti dell'industria. Congresso Società Italiana Medicina del Lavoro (SIML) 2020/2021.
- Cavalieri S, Minonzio M, Capitanelli I, F. Dipaola F, Shiffer D, Cairo B, Zamuner RA, Magnavita N, Furlan R, **Barbic F**. Postural Orthostatic Tachycardia Syndrome: Sintomatologia e impatto lavorativo della malattia. Congresso Società Italiana Medicina del Lavoro (SIML), 2020/2021.
- Barbic F**, Minonzio M, Cairo B, Shiffer D, Cerina L, Verzeletti P, Badilini F, Vaglio M, Porta A, Santambrogio M, Gatti R, Rigo S, Bisoglio A, Furlan R. Effects of a cool classroom microclimate on cognitive performances and cardiac autonomic control in undergraduate students. Meeting of the American Autonomic Society, November 4-6, 2021.
- Shiffer D, **Barbic F**, Rigo S, Minonzio M, Zamuner AR, Cairo B, Porta A, Tobaldini E, Furlan L, Montano N, Ulrechie V, Biaggioni I, Diedrich A, Furlan R. Symptoms and autonomic changes induced by chronic transcutaneous vagus nerve stimulation in hyperadrenergic Postural Orthostatic Tachycardia Syndrome. Meeting of the American Autonomic Society, November 4-6, 2021.
- Rigo S, **Barbic F**, Maura Minonzio M, Gianmarco Putti G, Andrea Bisoglio A, Romeo MA; Pellizon F; Kulangarathottiyil S; Bresciani L, Verzeletti P, Badilini F, Ciccarelli M, Bordoni MG, Furlan R. Dysautonomia symptoms in post-acute COVID-19 patients after hospital discharge: One-month follow-up. Meeting of the American Autonomic Society November 4-6, 2021.
- Minonzio M, Shiffer D, Capitanelli I, Dipaola F, Brunetta E, Folci F, Furlan R, **Barbic F**. Profilo metabolico e abitudini alimentari in un gruppo di operatori con lavoro organizzato a turni nell'industria. "Spazio Nutrizione" Digital Edition 2020.
- Dipaola F, Barberi C, Castelnuovo E, Minonzio M, Shiffer D, Cairo B, Porta A, **Barbic F**, Furlan R. Time course of autonomic symptoms in Postural Orthostatic Tachycardia Syndrome (POTS) patients: Two-year follow-up results. International Meeting of the American Autonomic Society, November 2020.

Shiffer D, Furlan R, **Barbic F**, Zamuner R, Minonzio M, Dipaola F, Cairo B, Porta A, Rigo S, Mundula V, Tobaldini E, Furlan L, Montano N, Biaggioni I, Diedrich A. Chronic Transcutaneous vagal nerve stimulation in hyperadrenergic POTS patients. International Meeting of the American Autonomic Society, November 2020.

Barbic F, Minonzio M, Shiffer D, Dipaola F, Cairo B, Zamuner A, Cavalieri S, Capitanelli I, Magnavita N, Furlan R. Relationship between work ability and cardiac autonomic profile in Postural Orthostatic Tachycardia Syndrome. International Meeting of the American Autonomic Society, November 2020.

Cavalieri S, Minonzio M, Dipaola F, Shiffer D, Cairo B, Zamuner RA, Capitanelli I, Magnavita N, Furlan R, **Barbic F**. Work ability assessment in active workers with Postural Orthostatic Tachycardia Syndrome. International Meeting of the American Autonomic Society, November 2020.

Barbic F. (*Invited speaker*) Reflex Syncope: Sport eligibility. Driving licence and professional activity Dolo Meeting Arrhythmias Bolzano, February 20-21, 2020.

Workshops (*Organisation and presentations*)

Nordic Institute for Advanced Training in Occupational Health (NIVA) Workshop: The Physical Activity Health Paradox – Chair: Professor Andreas Holtermann

- Online Webinar: September 6-7, 2021
- Online Workshop: September 8-9, 2021

Presentations by SC members:

- **Holtermann A, Krause N, Coenen P**. Introducing the Paradox background and understanding of the Paradox: What is the current evidence?
- Korshøj M, Hallman D, **Clays E**. Different physical activity characteristics between domains? Different physiological effects? Role of psychosocial factors?

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines* and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)

Publications (2020 and 2021):

1. **Bortkiewicz A**, Szyjowska AM, Siedlecka J, Makowiec-Dąbrowska T, Gadzicka E. Wybrane choroby przewlekłe i ich czynniki ryzyka u nauczycieli [Selected chronic diseases and their risk factors in teachers]. Med Pr. 2020 Mar 30;71(2):221-231. Polish. doi: 10.13075/mp.5893.00831.
2. **Clays E**, Puddu PE, Luštrek M, Pioggia G, Derboven J, Vrana M, De Sutter J, Le Donne R, Baert A, Bohanec M, Ciancarelli MC, Dawodu AA, De Pauw M, De Smedt

- D, Marino F, Pardaens S, Schiariti MS, Valič J, Vanderheyden M, Vodopija A, Tartarisco G. Proof-of-concept trial results of the HeartMan mobile personal health system for self-management in congestive heart failure. *Sci Rep*. 2021 Mar 11;11(1):5663. doi: 10.1038/s41598-021-84920-4.
3. Crowley P, Gupta N, Vuillerme N, Madeleine P, **Holtermann A**. Number of steps and systolic blood pressure: Do work and leisure matter? *Scand J Med Sci Sports*. 2021 Oct;31(10):1962-1970. doi: 10.1111/sms.14010.
 4. De Rosa R, Morici N, De Luca G, De Luca L, Ferri LA, Piatti L, Tortorella G, Grosseto D, Franco N, Misuraca L, Sganzerla P, Cacucci M, Antonicelli R, Cavallini C, Lenatti L, Leuzzi C, Murena E, Ravera A, **Ferrario M**, Corrada E, Colombo D, Prati F, Piscione F, Petronio AS, Galasso G, De Servi S, Savonitto S; Italian Elderly ACS Collaboration. Association of Sex with Outcome in Elderly Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention. *Am J Med*. 2021 Sep;134(9):1135-1141.e1. doi: 10.1016/j.amjmed.2021.03.025.
 5. Diedrich A, Urech V, Shiffer D, Rigo S, Minonzio M, Cairo B, Smith EC, Okamoto LE, **Barbic F**, Bisoglio A, Porta A, Biaggioni I, Furlan R. Transdermal auricular vagus stimulation for the treatment of postural tachycardia syndrome. *Auton Neurosci*. 2021 Sep 29;236:102886. doi: 10.1016/j.autneu.2021.102886.
 6. Fadel M, **Li J**, Sembajwe G, Gagliardi D, Pico F, Ozguler A, Evanoff BA, Baer M, **Tsutsumi A**, Iavicoli S, Leclerc A, Roquelaure Y, **Siegrist J**, Descatha A. Cumulative Exposure to Long Working Hours and Occurrence of Ischemic Heart Disease: Evidence from the CONSTANCES Cohort at Inception. *J Am Heart Assoc*. 2020 Jun 16;9(12):e015753. doi: 10.1161/JAHA.119.015753. Epub 2020 Jun 1. PMID: 32476603; PMCID: PMC7429044.
 7. Faghri PD, Dobson M, **Landsbergis P**, **Schnall PL**. COVID-19 Pandemic: What Has Work Got to Do With It? *J Occup Environ Med*. 2021 Apr 1;63(4):e245-e249. doi: 10.1097/JOM.0000000000002154.
 8. Faruque MO, Framke E, Sørensen JK, Madsen IEH, **Rugulies R**, Vonk JM, Boezen HM, Bültmann U. Psychosocial work factors and blood pressure among 63 800 employees from The Netherlands in the Lifelines Cohort Study. *J Epidemiol Community Health*. 2021 Jul 2;jech-2021-216678. doi: 10.1136/jech-2021-216678.
 9. **Ferrario MM**, Martire G, Gianfagna F, Lasalvia P, Cremonesi F, Tozzi M, Franchin M, Campana F, Roncaioli M, Cavicchiolo M, Borchini R, Iacoviello L, Veronesi G. Occupational class differences in ankle-brachial index and pulse wave velocity measurements to detect subclinical vascular disease. *Med Lav*. 2021 Aug 26;112(4):268-278. doi: 10.23749/mdl.v112i4.11415.
 10. Garcia-Rojas IJ, Omidakhsh N, Arah OA, Krause N. Blood Pressure Changes After a Health Promotion Programme Among Mexican Workers. *Front Public Health*. 2021 Jun 23;9:683655. doi: 10.3389/fpubh.2021.683655.
 11. Gilbert-Ouimet M, Trudel X, Talbot D, Vézina M, Milot A, **Brisson C**. Long working hours associated with elevated ambulatory blood pressure among female and male white-collar workers over a 2.5-year follow-up. *J Hum Hypertens*. 2021 Mar 2. doi: 10.1038/s41371-021-00499-3.
 12. Giordano A, Ferraro P, Finizio F, Biondi-Zoccai G, Denti P, Bedogni F, Rubbio AP, Petronio AS, Bartorelli AL, Mongiardo A, Giordano S, De Felice F, Adamo M, Montorfano M, Baldi C, Tarantini G, Giannini F, Ronco F, Monteforte I, Villa E, **Ferrario M**, Fiocca L, Castriota F, Tamburino C. Implantation of one, two or multiple MitraClips for transcatheter mitral valve repair: Insights from a 1824-

- patient multicenter study. *Panminerva Med.* 2021 Jul 26. doi: 10.23736/S0031-0808.21.04497-9.
13. Gupta N, Rasmussen CL, Hartvigsen J, Mortensen OS, **Clays E**, Bültmann U, Holtermann A. Physical Activity Advice for Prevention and Rehabilitation of Low Back Pain- Same or Different? A Study on Device-Measured Physical Activity and Register-Based Sickness Absence. *J Occup Rehabil.* 2021 Oct 9. doi: 10.1007/s10926-021-10005-8.
 14. Hansen KW, Peytz N, Blokstra A, Bojesen SE, Celis-Morales C, Chrysohoou C, **Clays E**, De Bacquer D, Galatius S, Gray SR, Ho F, Kavousi M, Koolhaas CM, Kouvari M, Løchen ML, Marques-Vidal P, Osler M, Panagiotakos D, Pell JP, Sulo G, Tell GS, Vassiliou V, Verschuren WMM, Prescott E. Association of fatal myocardial infarction with past level of physical activity: a pooled analysis of cohort studies. *Eur J Prev Cardiol.* 2021 Feb 10:zwaa146. doi: 10.1093/eurjpc/zwaa146.
 15. Hicks B, Veronesi G, **Ferrario MM**, Forrest H, Whitehead M, Diderichsen F, Tunstall-Pedoe H, Kuulasmaa K, Sans S, Salomaa V, Thorand B, Peters A, Soderberg S, Cesana G, Bobak M, Iacoviello L, Palmieri L, Zeller T, Blankenberg S, Kee F; MORGAM/BiomarCaRE consortium. Roles of allostatic load, lifestyle and clinical risk factors in mediating the association between education and coronary heart disease risk in Europe. *J Epidemiol Community Health.* 2021 May 28:jech-2020-215394. doi: 10.1136/jech-2020-215394
 16. **Holtermann A**, Schnohr P, Nordestgaard BG, Marott JL. The physical activity paradox in cardiovascular disease and all-cause mortality: the contemporary Copenhagen General Population Study with 104 046 adults. *Eur Heart J.* 2021 Apr 14;42(15):1499-1511. doi: 10.1093/eurheartj/ehab087.
 17. Korshøj M, Hannerz H, Frikke-Schmidt R, Marott JL, Schnohr P, **Clays E**, **Holtermann A**. Occupational lifting and risk of hypertension, stratified by use of anti-hypertensives and age - a cross-sectional and prospective cohort study. *BMC Public Health.* 2021 Apr 14;21(1):721. doi: 10.1186/s12889-021-10651-w.
 18. Korshøj M, Lund Rasmussen C, de Oliveira Sato T, **Holtermann A**, Hallman D. Heart rate during work and heart rate variability during the following night: a day-by-day investigation on the physical activity paradox among blue-collar workers. *Scand J Work Environ Health.* 2021 Jul 1;47(5):387-394. doi: 10.5271/sjweh.3965. Epub 2021 Apr 30. PMID: 33929548; PMCID: PMC8259705.
 19. **Landsbergis P**, Garcia-Rivas J, Juarez A, Choi BK, Dobson M, Gomez V, Krause N, Li J, Schnall PL. Occupational Psychosocial Factors and Cardiovascular Disease. In Tetrick LE, Fisher GG, Ford MT, Quick JC (Eds.) *Handbook of Occupational Health Psychology*, Volume 3. Washington, DC: American Psychological Association (in press).
 20. **Li J**, Atasoy S, Fang X, **Angerer P**, Ladwig KH. Combined effect of work stress and impaired sleep on coronary and cardiovascular mortality in hypertensive workers: The MONICA/KORA cohort study. *Eur J Prev Cardiol.* 2021 Apr 10;28(2):220-226. doi: 10.1177/2047487319839183.
 21. **Li J**, **Siegrist J**. Occupational Risks of Recurrent Coronary Heart Disease. *J Am Coll Cardiol.* 2021 Apr [6:77\(13\):1626-1628](#). doi: 10.1016/j.jacc.2021.02.020. PMID: 33795036.
 22. Luštrek M, Bohanec M, Caverio Barca C, Ciancarelli MC, **Clays E**, Dawodu AA, Derboven J, De Smedt D, Dovgan E, Lampe J, Marino F, Mlakar M, Pioggia G, Puddu PE, Rodríguez JM, Schiariti M, Slapničar G, Slegers K, Tartarisco G, Valič J,

- Vodopija A. A Personal Health System for Self-Management of Congestive Heart Failure (HeartMan): Development, Technical Evaluation, and Proof-of-Concept Randomized Controlled Trial. *JMIR Med Inform.* 2021 Mar 5;9(3):e24501. doi: 10.2196/24501.
23. Madsen IE, **Rugulies R**. Understanding the impact of psychosocial working conditions on workers' health: we have come a long way, but are we there yet? *Scand J Work Environ Health.* 2021 Oct 1;47(7):483-487. doi: 10.5271/sjweh.3984.
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 25. Mandurino-Mirizzi A, Cornara S, Somaschini A, Demarchi A, Galazzi M, Puccio S, Montalto C, Crimi G, Ferlini M, Camporotondo R, Gnecci M, **Ferrario M**, Oltrona-Visconti L, De Ferrari GM. Elevated serum uric acid is associated with a greater inflammatory response and with short- and long-term mortality in patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention. *Nutr Metab Cardiovasc Dis.* 2021 Feb 8;31(2):608-614. doi: 10.1016/j.numecd.2020.10.020.
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Book chapter:

65. Dobson M, Schnall P, Rosskam E, **Landsbergis P**. Work-Related Burden of Absenteeism, Presenteeism, and Disability: An Epidemiologic and Economic Perspective. in *Handbook of Disability, Work and Health* eds. Ute Bültmann, Johannes Siegrist. 2020, Springer, pp 251-272

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

SC on Work Organisation and Psychosocial Factors (SC WOPS) - Permanent cooperation documented, among others, by common publications.

In addition, an ICOH SC WOPS-CVD Joint Conference was planned for September 20-23, 2020, in Seoul. Although much work was done by the members of both SCs and by the local scientific and organising committees in South Korea, the event had to be cancelled, unfortunately, due to the global pandemic.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating Organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Our collaboration with WHO and ILO was documented by the following publications:

1. **Rugulies R**, Sørensen K, Di Tecco C, Bonafede M, Rondinone BM, Ahn S, Ando E, Ayuso-Mateos JL, Cabello M, Descatha A, Dragano N, Durand-Moreau Q, Eguchi H, Gao J, Godderis L, Kim J, Li J, Madsen IEH, Pachito DV, Sembajwe G, Siegrist J, Tsuno K, Ujita Y, Wang J, Zadow A, Iavicoli S, Pega F. The effect of exposure to long working hours on depression: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 Oct;155:106629. doi: 10.1016/j.envint.2021.106629.
2. Pega F, Náfrádi B, Momen NC, Ujita Y, Streicher KN, Prüss-Üstün AM; Technical Advisory Group, Descatha A, Driscoll T, Fischer FM, Godderis L, Kiiver HM, Li J, Magnusson Hanson LL, **Rugulies R**, Sørensen K, Woodruff TJ. Global, regional, and national burdens of ischemic heart disease and stroke attributable to exposure to long working hours for 194 countries, 2000-2016: A systematic analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 Sep;154:106595. doi: 10.1016/j.envint.2021.106595.
3. Pachito DV, Pega F, Bakusic J, Boonen E, **Clays E**, Descatha A, Delvaux E, De Bacquer D, Koskenvuo K, Kröger H, Lambrechts MC, Latorraca COC, Li J, Cabrera Martimbianco AL, Riera R, Rugulies R, Sembajwe G, Siegrist J, Sillanmäki L, Sumanen M, Suominen S, Ujita Y, Vandersmissen G, Godderis L. The effect of exposure to long working hours on alcohol consumption, risky drinking and alcohol use disorder: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 Jan;146:106205. doi: 10.1016/j.envint.2020.106205.
4. Teixeira LR, Pega F, Dzhambov AM, **Bortkiewicz A**, da Silva DTC, de Andrade CAF, **Gadzicka E**, Hadkhale K, Iavicoli S, Martínez-Silveira MS, Pawlaczyk-Łuszczynska M, Rondinone BM, Siedlecka J, Valenti A, Gagliardi D. The effect of occupational exposure to noise on ischaemic heart disease, stroke and hypertension: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-Related Burden of Disease and Injury. *Environ Int.* 2021 Sep;154:106387. doi: 10.1016/j.envint.2021.106387.
5. **Li J**, **Rugulies R**, Morgan RL, Woodruff T, **Siegrist J**; WHO/ILO Working Group of Individual Experts on Long Working Hours on Ischaemic Heart Disease. Systematic review and meta-analysis on exposure to long working hours and risk of ischaemic heart disease - Conclusions are supported by the evidence. *Environ Int.* 2020 Nov;144:106118. doi: 10.1016/j.envint.2020.106118.
6. Descatha A, Sembajwe G, Pega F, Ujita Y, Baer M, Boccuni F, Di Tecco C, Duret C, Evanoff BA, Gagliardi D, Godderis L, Kang SK, Kim BJ, Li J, Magnusson Hanson LL, Marinaccio A, Ozguler A, Pachito D, Pell J, Pico F, Ronchetti M, Roquelaure Y, Rugulies R, Schouteden M, **Siegrist J**, **Tsutsumi A**, Iavicoli S. The effect of exposure to long working hours on stroke: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2020 Sep;142:105746. doi: 10.1016/j.envint.2020.105746.
7. **Li J**, Pega F, Ujita Y, **Brisson C**, **Clays E**, Descatha A, **Ferrario MM**, Godderis L, Iavicoli S, **Landsbergis PA**, Metzendorf MI, Morgan RL, Pachito DV, **Pikhart H**, Richter B, Roncaioli M, **Rugulies R**, **Schnall PL**, Sembajwe G, Trudel X, Tsutsumi A, Woodruff TJ, **Siegrist J**. The effect of exposure to long working hours on ischaemic heart disease: A systematic review and meta-analysis from the

Conference abstracts published in scientific journals (2020 and 2021):

1. Sørensen JK, Framke E, Pedersen J, Alexanderson K, Bonde JP, Farrants K, Flachs EM, Magnusson Hanson LL, Nyberg ST, Kivimäki M, **Rugulies R**. Work stress and loss of years lived without chronic disease: An 18-year prospective cohort study. Abstract for the World Congress of Epidemiology 2021 (WCE 2021), published in: *Int J Epidemiol* 2021;50 (Supplement 5): i221 (abstract#1175).
<https://doi.org/10.1093/ije/dyab168.624>.
2. Sørensen JK, Framke E, Madsen IEH, **Rugulies R**. Annual changes in job strain and risk of coronary heart disease in Denmark. Abstract for the World Congress of Epidemiology 2021 (WCE 2021), published in: *Int J Epidemiol* 2021;50(Supplement 5):i202 (abstract #1067).
<https://doi.org/10.1093/ije/dyab168.574>.

Collaboration with non-ICOH Organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating Organisation. Provide relevant details of collaborations **other than** conferences.)*

- Polish Society of Occupational Hygienists
- Polish Cardiac Society, Working Group on Noninvasive Electrocardiology and Telemedicine
- The International Society for Holter and Non-invasive Electrocardiology (ISHNE)

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- We submitted a proposal for a Special Session during the ICOH2022 Congress titled
SS04 - 'Stress, sleep, cardiovascular autonomic disorders, and health promotion', with the following speakers and respective presentation titles:
 1. Nicola Magnavita - The mediating role of sleep in the relationship between occupational stress and cardiovascular risk
 2. Eleonora Tobaldini - Sleep, autonomic nervous system and cardiometabolic risk: occupational implications

3. Alicja Bortkiewicz - Physiological reaction to the night work in truck driver
4. Franca Barbic - Cardiovascular autonomic disorders and work ability: Focus on post-acute COVID-19 syndrome.

- List of Abstract Reviewers for Free Paper Sessions:

Alicja Bortkiewicz, Elzbieta Gadzicka, Franca Barbic, Paul Landsbergis, Hynek Pikhart, Peter Angerer, Jian Li, Reiner Rugulies

- We plan to organize a SC business meeting during the ICOH2022 Congress.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

It is too early to give this information.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

SC WOPS as always, but it is too early to provide any planning.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) Organisations:

*(Provide name of non-ICOH Organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Probably the continuation of collaboration with scientific organisations indicated in this report.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Not available at this time.

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The big success of the SC on Cardiology in Occupational Health is the number of members' publications in renowned scientific journals with high impact factors (*Nature*, *Lancet*, etc.) and seven papers in the journal: *Environment International*, which are the results of collaboration with WHO and ILO for estimating the burden of work-related disease and injury. All published papers improve global occupational health, especially cardiovascular health. The participation of our members in the Congress of Epidemiology (online) and other conferences, also as invited speakers, points to the involvement of committee members in disseminating knowledge about CVD and their occupational and environmental risk factors. An active participation in the international working groups (SCORE2, NCD Risk Factor Collaboration (NCD-RisC), WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury) demonstrates the international recognition of the competences of our members. It should be noted that SC members also take part in national workshops and conferences, which contributes to the popularization of CVD as work-related diseases and more effective prevention.

The successes of the SC members are also their editorial activities. Professor Franca Barbic was invited to be a Guest Editor in: 1. International Journal of Environmental Research and Public Health–2020/2021 (IJERPH), Special Issue: "Cardiovascular Neural Regulation in Adults from Daily Life to Occupational Environment"; 2. Frontiers Neuroscience Research Topic: "Occupational Neuroscience: Nervous System's Health at the Workplace" 2020/2021). SC members participate in the Editorial Boards of national and international scientific journals (e.g. Medycyna Pracy, International Journal of Occupational Medicine and Environmental Health, Nutrients, IJERPH, International Journal of Biometeorology etc.) and serve as reviewers in the journals with high impact factors.

Another important achievement is the 'Healthy Work Campaign' (HWC). In 2018 Professor Peter Schnall launched the HWC website www.healthywork.org, a public health campaign to raise awareness about the impacts of work stressors on health. In 2021, the Healthy Work Survey (HWS) was launched to assess the levels of psychosocial work stressors for individuals and Organisations. HWC co-directors Drs. Marnie Dobson and Peter Schnall collaborated in a two year HWS development project with Dr. BongKyoo Choi, UC Irvine, Dr. Paul Landsbergis SUNY Downstate, and with input and feedback from multiple occupational health and safety researchers and experts. The HWS is online, free to access, and takes about 20 minutes for individuals to complete. It is anonymous and confidential. An automated, free, and confidential report of personal results can be emailed directly to each participant (if they so choose). An aggregate/group-level report (without any personal identifiers) is generated and emailed to the requesting Organisation within a day or two of all participants completing the Organisation's HWS. The report compares the Organisation's average scores on major work stressors, with the average scores and risk levels reported in the NIOSH Quality of Worklife (QWL) [national U.S. population survey for](https://www.cdc.gov/niosh/qwl/) the same major work stressors.

The HWC is a project of the Center for Social Epidemiology (CSE), a non-profit Organisation that has been conducting epidemiological research on the effects of work-

related stress on mental health and CVD in the U.S. and promoting public health efforts to prevent work stress-related health consequences.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name: **Email address:**

Bortkiewicz Alicja, **Chair** alab@imp.lodz.pl
Gadzicka Elzbieta, **Secretary** elag@imp.lodz.pl

Scientific Advisory Committee

Ferario Marco M marco.ferrario@uninsubria.it
Tsutsumi Akizumi akizumi@kitasato-u.ac.jp
Schnall Peter pschnall@workhealth.org
Li Jian lijian1974@hotmail.com
Clays Els els.clays@ugent.be
Kristensen Tage sk@task-consult.dk
Pikhart Hynek h.pikhart@ucl.ac.uk
Siegrist Johannes Johannes.Siegrist@med.uni-duesseldorf.de

SC Members

Holtermann Andreas aho@arbejdsmiljoforskning.dk
Garcia Arturo Juarez arturojuarezg@hotmail.com
Choi BongKyoo b.choi@uci.edu
Brisson Chantal cbrisson@uresp.ulaval.ca
Harishankar MG harishankarmg@gmail.com
Carneiro José CD jccarneiro@esame.com.br
Fisher June tdictproj@aol.com
Rajput-Ray Minha m.rajput-ray@nndepro.org.uk
Krause Niklas niklaskrause@ucla.edu
Landsbergis Paul paul.landsbergis@downstate.edu
Angerer Peter Peter.Angerer@uni-duesseldorf.de
Smith Peter peter.smith@monash.edu
Rugulies Reiner rer@arbejdsmiljoforskning.dk
Ojomo Uche uche.ojomo@total.com
Barbic Franca franca.barbic@humanitas.it
Nicola Mangavita nicolamagnavita@tiscali.it
Thomas Anil drthomasanil@gmail.com

CG Manoj Kumar manojplr@gmail.com
Ravindra Kumar dr.ravisoni@gmail.com

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2021 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – October 2021**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

**The SC Final Report covers the period January 2020 – February 2022.
Please submit it no later than October 24, 2021, to:**

Vice President: Claudina Nogueira claudinanogueira@hotmail.com
cmcanogueira@gmail.com
Secretariat General icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date: 28 October 2021
Submitted by SC: Education and Training in Occupational Health (SC ETOH)

Name of Chair: Marija Bubas
Year of Appointment: 2018
Email address: marija.bubas@gmail.com
or marija.bubas@hzjz.hr

Name of Secretary: Frank van Dijk
Year of Appointment: 2018
Email address: v.dijk.workandhealth@gmail.com

SC Website URL (if available): No own site, webpage on ICOH website only

Other SC Means of Communication:
Notification e-mails, business meetings, otherwise no other means of communication

Focus and aim of the SC:

This SC has been established as a body of ICOH to improve education and training in the field of health and safety at work, including the education of medical students and students of other relevant disciplines, the education of occupational health nurses, occupational physicians, occupational hygienists, safety experts, psychologists, and other experts in occupational safety and health (OSH), and the education of other target groups relevant for OSH, not being experts in OSH, such as primary/community healthcare workers (family physicians, community health workers, volunteers), human resource managers and engineers. The aim of the SC is to raise the level of knowledge and skills on all aspects of OSH. The education and training include not only the vocational training but also the cycle of lifelong learning. The SC is similarly committed to the education and training in occupational safety and health of workers and managers, their representatives, and of volunteers active in this field. As education and information are closely connected, the SC regards the need to improve access to and use of reliable information as an important base for SC ETOH activities.

Specific points of attention are: (1) the scientific and practical evaluation of education, (2) the dissemination/coverage/accessibility of education and information, and (3) the exploration and metrics of online and blended forms of education and information. Given the huge need for education and information in the world, close connections exist with (4) the Basic Occupational Health Services (BOHS) strategy and activities. Another point of focus is (5) the core values at work issue, addressing the need to focus not only on the negative aspects of work on health and safety, but to also address positive effects that work can have for workers.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Mumbai, India

Date: January 28, 2020

Number of attendees: 24 (messages of apologies: 4)

Date report sent to VP: 27 October 2021

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The International Conclave on Occupational Health (OCCUCON 2020) – Mumbai, India – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				

Date:	January 28 – February 1, 2020
Venue:	Nehru Centre, Mumbai, India
Organizers:	Collaboration of the IAOH (Indian Association of Occupational Health) and eight ICOH Scientific Committees, coordinated for a large part by SC ETOH and SC on Effectiveness in Occupational Health Services (SC EOHS)
Co-organizers and Collaborators: Please identify and describe roles.	<p>SC ETOH and SC EOHS took the lead in organising the international event, closely and in a good atmosphere collaborating with IAOH experts. Theme: Keys to Sustainable OSH – Evidence, Practice and Collaboration</p> <p>Participating ICOH SCs:</p> <ul style="list-style-type: none"> • Effectiveness in Occupational Health Services (SC EOHS) • Education and Training in Occupational Health (SC ETOH) • Rural Health: Agriculture, Pesticides and Organic Dusts • Mining Occupational Safety and Health (SC MinOSH) • Occupational Health in the Construction Industry • Occupational Health and Development • Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS) • Occupational Health in the Chemical Industry (SC MEDICHEM)
Number of participants:	International and mixed parts: 100 - 200 participants
Publication or provision of CD/DVD proceedings:	Unknown
Book of abstracts:	Yes
Book of selected proceedings:	No
Special issue of peer reviewed journals:	Yes - Abstracts were published in the Indian Journal of Occupational and Environmental Medicine (IJOEM). For a report of parts of the Mumbai Conclave, see: Mishra A. International Conclave on Occupational Health, January 2020 in Mumbai. ICOH Newsletter April 2020; vol 18, p. 11-16.
Assessment of success / impact:	Unknown

(2) Name of the event:	European Association of Schools in Occupational Medicine (EASOM) Summer School				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	August 27-28, 2021				
Venue:	Leuven, Belgium				
Organizers:	University of Leuven and the European Association of Schools in Occupational Medicine (EASOM)				
Co-organizers and Collaborators: Please identify and describe roles.	Contribution on opportunities for online information and education				
Number of participants:	25				
Publication or provision of CD/DVD proceedings:	Recordings in youtube				
Book of abstracts:	No				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:	Unknown				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

- Van Dijk F, Bubas M. Sharing online OSH education, examples that SC ETOH would like to share. ICOH Newsletter, September 2021; vol 19, p 10-12.

- Van Dijk F, Caraballo-Arias Y. Where to Find Evidence-Based Information on Occupational Safety and Health? *Ann Glob Health*. 2021;87:6. PMID: 33505865. Free Article. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7792450/>
- Van Dijk F, van der Laan G. A short contribution asking attention for a recent systematic review: Education of agricultural workers improving safety and health literacy (Coman MA, Marcu A, Chereches RM, Leppälä J, Van Den Broucke S.). *ICOH Newsletter*, December 2020; vol 18, p 13.
- Guillemin M, Mittal A, Nicholas R, Seneviratne M, van Dijk F. Core Values at Work. *ICOH Newsletter*, August 2020; vol 18, p 15-17.
- First Newsletter of the SC ETOH Working Group 'Core Values at Work'.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

See above the close collaboration with seven other ICOH Scientific Committees preparing and implementing the ICOH Conference in India, 2020.

In preparation for the ICOH2022 Congress (initially planned to be held in Australia in 2021), we have a close collaboration with the ICOH Information and Communication Task Group and with SC on Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS).

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating Organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

WHO and ILO were invited but could not be present in the Mumbai Conference. Connections with WHO are very poor, unfortunately, as we did our best. The SC retains good connections with the International Training Centre of the ILO in Turin, Italy, and with Shengli Niu (ILO Geneva).

Collaboration with non-ICOH Organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating Organisation. Provide relevant details of collaborations **other than** conferences.)*

Good contacts with WONCA (Family Physicians), Special Interest Group for Workers' Health. Good contacts with the European Association of Schools of Occupational Medicine (EASOM) and with the American College of Occupational and Environmental Medicine (ACOEM, USA) related to educational contributions to ACOEM congresses, the South National Institute for Occupational Health (NIOH, Johannesburg, South Africa) related to the OSHAfrica Congress in Johannesburg (September 2019) and lectures at the University of Pretoria, South Africa.

Any other points of relevance:

See the SC Midterm Report. Close connections with Foundation Learning and Developing Occupational Health (LDOH) in The Netherlands; ENETOSH in Dresden, Germany; first contacts with OSHAfrica via its first congress in Johannesburg, South Africa (September 2019).

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- Free Paper Session on Education and Training in Occupational Health
- Special Session on Online Information and Education (in collaboration with the ICOH Information and Communication Task Group)
- Special Session on Basic Occupational Health Services (in collaboration with the SC on Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS) and the Indian Association of Occupational Health (IAOH))
- Special Session on European Postgraduate Assessment in Occupational Medicine (mainly organised by the European Union of Medical Specialists (UEMS) - Section in Occupational Medicine).

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- The next business meeting must be planned soon. First discussions have started about a future SC ETOH Conference including activities of the SC ETOH Working Group on Core Values at Work. This SC ETOH Working Group is also planning a webinar on the topic 'Core Values'.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- The SC ETOH Working Group on Core Values at Work is looking to collaborate with other SCs.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) Organisations:

*(Provide name of non-ICOH Organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- Options will be explored to collaborate more closely in the Organisation of a coherent package of online activities such as an e-library for educational materials and the exchange of news and initiatives in OSH education and training, with other ICOH SCs, EASOM, ENETOSH, international organisations of occupational hygienists (e.g. IOHA, OHTA), the Foundation LDOH and others.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

- A scientific article is in preparation on Basic Occupational Health Services collaborating closely with the Foundation LDOH and the IAOH (2022).

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

The activities in the last triennium resulted in:

- An important role in the organisation of the successful international ICOH Conference in India, Mumbai, uniting various ICOH SCs and experts from India. Topics covered by our SC were, among others: Basic Occupational Health Services, Evaluation of Education, Core Values at Work, Online Information and Education.
- The Open Access article on *Where to Find Evidence-Based Information on Occupational Safety and Health*, and many lectures and workshops given on this topic by several experts from SC ETOH, contributed to the evidence-base of our professional activities.
- The activities of our Working Group on Core Values at Work contributed to a wider perspective of ICOH activities.
- We hope to realize a significant impact with the writing of the article on BOHS, to overcome the stagnation in the development of BOHS and to stimulate new well-coordinated national and international efforts.

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name: The SC ETOH members' list is available in the Private Area on the ICOH website

Email addresses: (Take care for privacy aspects)

sakthi.as@stjohns.in
rifamireya@gmail.com
20071895@aloe.ulima.edu.pe
msepalamelo@nti.co.za
kebeneyjonah@gmail.com
H.Modam@mmu.ac.uk
ds.tandiabang@gmail.com
ize.ozoya@nikkytaurus.com
mail@michaelhk.com
SVerpaele@nickelinstitute.org
Janvier.Gasana@hsc.edu.kw,
Anil.Adishes@dal.ca
ferhat@gmail.com
andreeaiso@gmail.com
larimos@yahoo.com
nzvimbajairos@gmail.com
pearlagu@yahoo.co.uk
fcomd17@yahoo.com
lead_eric@yahoo.com
jagnew@jhsph.edu
akkurtbr@gmail.com
podagraabcd@gmail.com
mary@healthmattersni.com
balalla_nbp@yahoo.com
jbarretosanchez@yahoo.es
mspabe@gmail.com
tbazas@yahoo.co.uk
jeremy.beach@shaw.ca
consultora.legal@mirellabernal.com
drvidyakiran@gmail.com
jfanchette@prevor.com
karmen.bradvica-kelava@hzjz.hr
lutgart.braeckman@ugent.be
marija.bubas@hzjz.hr
jean-francois.caillard@chu-rouen.fr

arch.carson@earthlink.net
luisbcmd@gmail.com
cesarchavez966@hotmail.com
manojplr@gmail.com
grant.ciccone@gmail.com
hacv14@outlook.com
Antoon.DeSchryver@idewe.be
anne.drummond@ucd.ie
abdeljalil.elkholti@gmail.com
kajelg@kth.se
emmetted@mail.med.upenn.edu
uchedine507wed@gmail.com
fomscu3@gmail.com
lforst@uic.edu
tfulle2@ilstu.edu
janvier.gasana@gmail.com
facundogaspoz@gmail.com
drgerardgabriel@yahoo.com.ar
vivigo05@yahoo.com
lgustavo.gv@gmail.com
dr.vishalgosavi@gmail.com
grainger@telkomsa.net
ohc.himachal@unilever.com
drazizkpaskkm@gmail.com
John.Harrison@devonandcornwall.pnn.police.uk
ehi@ohsm.com.ng
jaeger@amd.at
njeyarat@gmail.com
soile.jungewelter@ttl.fi
skadiri782000@yahoo.com
karmakar.sougata@gmail.com
kroonconsult@xs4all.nl
giuseppe.latorre@uniroma1.it
enilay2@yahoo.com
mrl1@cdc.gov
carol_lub@abv.bg
kishore.madhwani@unilever.com
mjarreta@unizar.es
kenjoemason@gmail.com
blessingmavemwa@gmail.com
judith.mckenzie@uphs.upenn.edu
ymegbele@yahoo.com
dr.ignaciomendez@gmail.com
msadnmch@hotmail.com
maritta.metso@fimnet.fi
karenmichell92@gmail.com
jayandranhse@gmail.com
edgmorar@hotmail.com
kmori@med.uoeh-u.ac.jp

pathare_suvarna@outlook.com
 mpoful@nssa.org.zw
 m-nakajima@cs.kinran.ac.jp
 robin.m.nicholas@gmail.com
 manudoc.2000@gmail.com
 mhenryogaro@gmail.com
 buharaonal@yahoo.com
 pmo@mweb.co.za.
 fcomd17@yahoo.com
 manuelmpg@gmail.com
 drbmpaul@gmail.com
 eapauncu@gmail.com
 phamnguyenha05@yahoo.com
 radfordej@globalnet.co.uk
 joshua.physio@hotmail.com
 armand_doc@yahoo.com
 vramteke@yahoo.com
 susanran@gmail.com
 jorma.h.rantanen@gmail.com
 kimmo.rasanen@fimnet.fi
 rogersb@email.unc.edu
 mrosen@rutgers.edu
 imadaksmlal@gmail.com
 drrajatsaha@yahoo.co.in
 zuhtusahin@gmail.com
 tateishi@med.uoeh-u.ac.jp
 pba.smits@gmail.com
 dewisoemarko@yahoo.com
 j.spickett@curtin.edu.au
 drszozda@o2.pl
 tabibir@gmail.com
 innovohs@bigpond.com
 titopoulos@lot-consult.com
 y.toft@cqu.edu.au
 v.dijk.workandhealth@gmail.com
 marek.varga@upjs.sk
 villalobosfajard@yahoo.com
 nlwagner@web.de
 amaniwaheed@yahoo.com
 Eric.Wood@hsc.utah.edu
 yalalan@gmail.com
 MuzimkhuluZ@nioh.ac.za

Members who left the SC since the submission of the SC Midterm Report:

Name:	Email address:
-------	----------------

louwna.pretorius@corobrik.co.za	(email address rejected)
Timo.Leino@ttl.fi	(email address rejected)

almas@ocsa.co.za (email address rejected)
odraudeatsocas@ig.com.br (email address rejected)
okubo001@med.uoeh-u.ac.jp (email address rejected)

Further: Unknown! Ask the ICOH administration.



**ICOH 2018-2022 TRIENNium
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

22 October 2021

Submitted by SC:

Effectiveness in Occupational Health Services
(SC EOHS)

Name of Chair:

Stefania Curti

Year of Appointment:

2018

Email address:

stefania.curti@unibo.it

Name of Secretary:

Riitta Sauni

Year of Appointment:

2021

Email address:

riitta.sauni@tuni.fi

SC Website URL (if available): Not anymore. The domain of the website (<https://eohs-icoh.org/>) was paid until January 2020 by one of the SC members (Stefano Mattioli, past chair of SC EOHS). At the moment, we are seeking alternative solutions (see also minutes of the business meeting held in Mumbai 2020, enclosed with the Final Triennial Report 2018-2022).

Other SC Means of Communication:

Email to the membership list on an ad-hoc basis

Newsletter: At least twice per year

Focus and aim of the SC:

The aim of the SC is to stimulate the international exchange of experiences on research programmes, methodology and practice in the field of health services and policy in occupational health and to identify priority areas for international comparative research. Topics addressed by the SC include evidence-based occupational medicine, guidelines and Cochrane reviews. Evaluation of interventions lead to improved delivery of occupational health, reducing sickness absence and improving health and wellbeing at work. The activities of the SC are intended to foster the scientific progress, knowledge and development of occupational health at work by providing a multidisciplinary network in the field of occupational health services. By promoting research and collaboration, the SC aims to contribute to a better professional quality of occupational health services, a good acceptance and adequate use of these services, and ultimately to healthy work for all.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: OCCUCON 2020 – ‘Keys to sustainable OSH – Evidence, Practice and Collaboration’, held at the Nehru Centre, Mumbai, India

Date: January 28, 2020

Number of attendees: 8

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): October 22, 2021. Business meeting report sent along with the Triennial Final Report 2018-2022 to VP.

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The International Conclave on Occupational Health (OCCUCON 2020) – Mumbai, India – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	January 28 – February 1, 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	Stefania Curti (Chair of SC EOHS) and Frank van Dijk (SC EOHS member and Secretary of SC ETOH)				

Co-organizers and Collaborators: Please identify and describe roles.	<p>This Conference was organised collaboratively with seven other ICOH SCs, with the support of the IAOH, which hosted its 70th Annual National Conference 2020 (January 30 – February 1, 2020) at the same event (OCCUCON 2020):</p> <ul style="list-style-type: none"> • Education and Training in Occupational Health (SC ETOH) • Rural Health: Agriculture, Pesticides and Organic Dusts • Mining Occupational Safety and Health (SC MinOSH) • Occupational Health in the Construction Industry • Occupational Health and Development • Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS) • Occupational Health in the Chemical Industry (SC MEDICHEM)
Number of participants:	About 180
Publication or provision of CD/DVD proceedings:	
Book of abstracts:	
Book of selected proceedings:	
Special issue of peer reviewed journals:	Abstracts were published in the Indian Journal of Occupational and Environmental Medicine (IJOEM)
Assessment of success / impact:	The conference was of high quality and well attended. Around 180 participants attended the conference, including early career scientists and researchers from low-income and middle-income countries. One third of the participants came from 23 countries outside of India and all continents and many disciplines were represented.

(2) Name of the event:	IAOH Mumbai Branch Workshop: 'Orientation to Occupational Health – Current and Future Challenges'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	January 30, 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	IAOH Mumbai Branch				

Co-organizers and Collaborators: Please identify and describe roles.	Stefania Curti (Chair of SC EOHS), Diana Gagliardi (Chair of SC on Occupational Health and Development), Stefano Mattioli (SC EOHS member), and Frank van Dijk (SC EOHS member and Secretary of SC ETOH)
Number of participants:	About 50
Publication or provision of CD/DVD proceedings:	
Book of abstracts:	
Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	This workshop was targeted to safety and engineering professionals. It was aimed at encouraging focus on occupational health as distinct from safety and reinforce the importance of risk management as an important tool in this endeavor. It was well received by the attendees considering that a mix of didactic learning techniques and interactive reality-based case scenarios were used. All participants provided very positive feedback.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

Conference proceedings were published in the Indian Journal of Occupational and Environmental Medicine (IJOEM): Special Issue of the International Conclave on Occupational Health 2020 incorporating the 70th National Conference of the Indian Association of Occupational Health (IAOH) and selected ICOH SCs:
Indian J Occup Environ Med. 2020 January; Volume 24, Issue 4 (Supplement):1-41

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

1) Our SC is working closely with many members of the SC on Occupational Medicine who are also members of the Modernet (Monitoring trends in Occupational Diseases and tracing new and Emerging Risks in a NETwork) Working Group.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

1) One of the members of the SC EOHS (Professor Carel Hulshof) is the lead author of two systematic reviews promoted by WHO/ILO:

- Hulshof CTJ, Pega F, Neupane S, Colosio C, Daams JG, Kc P, Kuijer PPFM, Mandic-Rajcevic S, Masci F, van der Molen HF, Nygård CH, Oakman J, Proper KI, Frings-Dresen MHW. The effect of occupational exposure to ergonomic risk factors on osteoarthritis of hip or knee and selected other musculoskeletal diseases: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 May;150:106349.
- Hulshof CTJ, Pega F, Neupane S, van der Molen HF, Colosio C, Daams JG, Descatha A, Kc P, Kuijer PPFM, Mandic-Rajcevic S, Masci F, Morgan RL, Nygård CH, Oakman J, Proper KI, Solovieva S, Frings-Dresen MHW. The prevalence of occupational exposure to ergonomic risk factors: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 Jan;146:106157.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

1) Cochrane Work

Our SC liaises with Cochrane Work and stimulates its members to:

- Evaluate the effectiveness of preventive interventions
- Participate in systematic reviews
- Come up with OSH topics for systematic reviews
- Use and implement the knowledge available from OSH Cochrane Reviews

Since 2020, eight Cochrane Work reviews and seven protocols have been published in the Cochrane Library.

2) Nordic Institute for Advanced Training in Occupational Health (NIVA)

Our SC collaborated with NIVA to promote research and good practice in occupational health. Timo Leino (course leader and SC EOHS member) and Riitta Sauni (Secretary of SC EOHS) attended the following NIVA workshop: 'Nordic Workshop on Occupational Health Services'. This workshop was held as a hybrid meeting in Hanasaari, Helsinki, Finland and online in Teams, October 29, 2020.

3) Modernet (Monitoring trends in Occupational Diseases and tracing new and Emerging Risks in a NETwork) Working Group

Some of our members are participating in the activities of a collaborative working group (Modernet) which was originally funded by the EU-COST action. The aim of Modernet is to study trends of occupational diseases and new occupational risks, relevant topics for occupational health services. There is a project initiative aiming to assess the impact of COVID and long COVID on return to work (RTW) through a European Network of Occupational Physicians.

4) Indian Association of Occupational Health (IAOH)

Our SC collaborated with IAOH for the OCCUCON 2020 in Mumbai, India, 2020.

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

1) Planned Special Sessions at ICOH2022 Congress:

a) A Special Session titled SS 07 - 'Occupational Health Services for all' proposed by the SC EOHS. Coordinator: Stefania Curti (Chair of SC EOHS) with the support of Seong-Kyu Kang (ICOH Vice-President and SC EOHS member).

List of Presenters:

Jelena Djokovic Davidovic (Republic of Serbia)

Nuri Purwito Adi (Indonesia)

Aquiles Monroy (Peru)

Kibor Keitany (Kenya)

b) A Special Session titled SS 14 - 'Preventing and Managing Occupational Shoulder Disorders' proposed collaboratively by the SC on Musculoskeletal Disorders and SC EOHS. Coordinator: David Rempel (member of SC on Musculoskeletal Disorders) with the support of Stefania Curti (Chair of SC EOHS).

List of Presenters:

Andreas Seidler (Germany)

Roberta Bonfiglioli (Italy)

Karen Walker-Bone (UK)

David Rempel (USA)

2) Free Paper Session titled 'Effectiveness in Occupational Health Services' organised by SC EOHS. Organiser and chief reviewer: Stefania Curti (Chair of SC EOHS)

Assistant organisers: Riitta Sauni (Secretary of SC EOHS) and Stefano Mattioli (SC EOHS member)

Reviewers:

Stefania Curti (Italy)

Riitta Sauni (Finland)

Stefano Mattioli (Italy)

Frederieke Schaafsma (Netherlands)

Jos Verbeek (Netherlands)

Andreas Seidler (Germany)

3) Business meeting at ICOH2022 Congress

Our SC will organise a business meeting to be held during the digital ICOH2022 Congress (February 6-10, 2022). This will be finalised in the coming weeks.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

At the business meeting of the ICOH2022 Congress we intend to discuss the potential collaborations with other SCs taking into consideration the involvement of National Scientific Societies like the American College of Occupational and Environmental Medicine (ACOEM). Conferences and/or seminars will be finalised in due course, including business meetings.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Our SC intends to discuss the opportunity to organise a joint meeting with other SCs like SC on Occupational Medicine, SC on Epidemiology in Occupational Health (SC EPICOH) or SC on Radiation and Work. Collaborative activities may include the evaluation of the effectiveness of preventive interventions. This will be finalised in due course.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

We are still working, and we plan to continue to cooperate, together with the Cochrane Work and the European group Modernet (see above), as well as other partners like NIVA.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The members of the SC EOHS have been active in improving the quality of occupational services and of occupational surveillance, producing useful guidelines and also collaborating with colleagues from other SCs and organisations, including WHO/ILO. In that sense, regarding the role of occupational services in improving global occupational health, the activity of our SC can well be considered successful.

Moreover, members of the SC developed the field of the evaluation of the effectiveness of preventive OSH interventions, also participating in the activities of Cochrane Work.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Title	First Name	Last Name	E-mail
Prof.	Raymond M.	AGIUS	Raymond.Agius@man.ac.uk
Mrs	Ashrita	ANTHONY	ashritaanthony08@gmail.com
Dr.	Theodore	BAZAS	tbazas@yahoo.co.uk
Dr.	Vidya Kiran	BHAT	drvidyakiran@gmail.com
Ms	Janine	BIGAIGNON - FANCHETTE	jfanchette@prevor.com
Dr.	Liliane	BOITEL	Liliane.Boitel@cisme.fr liliane.boitel@wanadoo.fr

Dr.	Peter	BUIJS	buijspc@gmail.com
Dr.	Geoffrey Mc Call	CALVERT	gcalvert@cdc.gov
Dr.	John Timothy	CARTER	tim.carter@virgin.net
Dr.	Manoj Kumar	CHITTUR GOPALAKRISHNAN	manojplr@gmail.com
Dr.	Katia Maciel	COSTA-BLACK	katia.black@ergonomia.com
Dr.	Gleb	CSIGIRINSZKIJ	gleb.csigirinszkij@monsanto.com
Dr.	Stefania	CURTI	stefania.curti@unibo.it
Dr.	Angela	DE BOER	a.g.deboer@amc.uva.nl
Dr.	Juan Luis	DELGADO	juanluis.delgado@hotmail.com
Dr.	Brigitte	FRONEBERG	brigitte.froneberg@gmail.com
Dr.	Hiroshi	FUKUDA	hiro----@kt.rim.or.jp
Prof.	Mats	HAGBERG	mats.hagberg@amm.gu.se
Mrs	Catherine Elizabeth	HARRISON	cathy.harrison@dh.gsi.gov.uk
Dr.	John	HARRISON	John.Harrison@devonandcornwall.pnn.p olice.uk
Prof.	Peter	HASLE	pha@nrcwe.dk
Prof.	Toshiaki	HIGASHI	thigashi@med.uoeh-u.ac.jp
Prof.	Carel T.J.	HULSHOF	c.t.hulshof@amc.uva.nl
Dr.	Päivi Marjukka	HUSMAN	paivi.husman@ttl.fi
Prof.	Kaj R.H.	HUSMAN	kaj.husman@ttl.fi tarja.kauppinen@ttl.fi
Dr.	Matti S.	HUUSKONEN	huuskonen@occuphealth.fi
Dr.	Ekene Casmir	IGBOERIKA	ekillinkice@yahoo.com
Dr.	Reinhard	JÄGER	jaeger@amd.at
Ms	Annette	JÖRGENSEN	annette.jr@telia.com
Prof.	Seong-Kyu	KANG	sk.kang@gachon.ac.kr
Dr.	Devesh	KUMAR	drdeveshkumar3@gmail.com
Dr.	Santanam Balaji	LAKSHMIPURAM	balaji.lakshmipuram@tatapower.com
Ms	Kirsi Helena	LAPPALAINEN	kirsi.niiranen13@live.com
Dr.	Timo Juhani	LEINO	timo.leino@ttl.fi
Dr.	Bertrand	LIBERT	bertrand.libert@ametif.org
Dr.	Arve	LIE	arve.lie@stami.no
Prof.	Ewan B.	MACDONALD	e.b.macdonald@udcf.gla.ac.uk ebmd1t@udcf.gla.ac.uk
Dr.	Ira	MADAN	ira.madan@kcl.ac.uk
Dr.	Pirjo	MANNINEN	pirjo.manninen@ttl.fi
Dr.	Kari-Pekka	MARTIMO	kari-pekka.martimo@ilmarinen.fi
Dr.	Stefano	MATTIOLI	s.mattioli@unibo.it
Prof.	Guido F.	MOENS	moens.vankerckhoven@gmail.com

Dr.	Marja Kristiina	MUKALA	kristiina.mukala@occuphealth.fi
Prof.	Jadranka	MUSTAJBEGOVIC	jmustajb@snz.hr jmustajb@gmail.com
Prof.	Takashi	MUTO	mutot@dokkyo.med.ac.jp
Dr.	Buhara	ONAL	buharaonal@yahoo.com
Mrs	Penelope Margaret	ORTON	pmo@mweb.co.za
Dr.	Bishwadeep Manoj	PAUL	drbmpaul@gmail.com
Dr.	André Montenegro	PEREIRA	andremedtrab@outlook.com
Mrs	Kaija Marjatta	PEURALA	peurala.marjatta@saunalahti.fi
Dr.	Pedro Guillermo	PROANO EGAS	pedroproanio@yahoo.es
Dr.	Kimmo P. O.	RÄSÄNEN	kimmo.rasanen@fimnet.fi
Dr.	Marilou	RENALES	drmarlu@yahoo.com
Prof.	Monika A	RIEGER	monika.rieger@med.uni-tuebingen.de
Dr.	Andrei Viktorovich	RIKUNOV	Rikunov.AV@gazprom-neft.ru
Dr.	Julietta	RODRIGUEZ GUZMAN	rodriguezjulietta@unbosque.edu.co
Mr.	Jani Henrik	RUOTSALAINEN	j.h.ruotsalainen@gmail.com
Dr.	Pouné	SABERI	poune.saberi@va.gov
Mr.	Florentino Zosimo	SANCHEZ AGUILAR	florentino.sanchez@outlook.com.pe
Prof.	Riitta Sinikka	SAUNI	riitta.sauni@tuni.fi
Dr.	Marie-Noelle	SCHMICKLER	marienoelle.schmickler@mensura.be
Mrs	Jennifer Rose	SERFONTEIN	jenn.s@mtloaded.co.za
Dr.	Consol	SERRA PUJADAS	consol.serra@upf.edu
Dr.	Knut	SKYBERG	knut.skyberg@stami.no
Dr.	Ramin	TABIBI	tabibir@gmail.com
Prof.	F.J.H.	VAN DIJK	v.dijk.workandhealth@gmail.com
Dr.	Katherine M.	VENABLES	kate.venables@dph.ox.ac.uk
Dr.	Jos H.A.M.	VERBEEK	jos@jverbeek.eu
Mrs	Joan	VISSER	joan@occucare.co.za
Dr.	Axel	WANNAG	a.wannag@getmail.no
Prof.	Peter J.M.	WESTERHOLM	peter.westerholm@medsci.uu.se
Dr.	Aseni	WICKRAMATILLAKE	aseni.wickramatillake@gmail.com
Prof.	Min	ZHANG	minzhang928@vip.sina.com
Dr.	Muzimkhulu	ZUNGU	MuzimkhuluZ@nioh.ac.za
Dr.	Kajiki	SHIGEYUKI	skajiki@med.uoeh-u.ac.jp

Prof.	Andreas	SEIDLER	andreas.seidler@mailbox.tu-dresden.de
Dr.	Go	MUTO	gomuto@hsph.harvard.edu; g-muto@juntendo.ac.jp
Dr.	Priyanka	ROY	priyankaroysskm@gmail.com
Dr	Victor CW	HOE	drvictorhoe@gmail.com
Dr	Jayakumar	DEVASIGAMONEY	adjayakumar@yahoo.co.in
Ms	Vishnupriya	IYER	mvp_iyer_workstuff@yahoo.com
Dr.	Dick	SPREEUWERS	d.spreeuwers@sanecon.eu
Dr	Marianna	AGABA	marphil07@gmail.com

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:

None



**ICOH 2018-2021 TRIENNIUM
SCIENTIFIC COMMITTEE MIDTERM REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

24 October 2021

Submitted by SC:

Emergency Preparedness and Response in
Occupational Health (SC EPROH)

Name of Chair:

Alexis Descatha

Year of Appointment:

2015

Email address:

alexis.descatha@inserm.fr

Name of Secretary:

Susanne Schunder-Tatzber

Year of Appointment:

2018

Email address:

Susanne.Schunder-Tatzber@omv.com

SC Website URL (if available): <https://eproh.org/>

Other SC Means of Communication:

None

Focus and aim of the SC:

We aim to be involved in practice, training and research on:

- Emergency plans and procedures
These plans and procedures range from daily care to exceptional emergency

care situations and nowadays especially on pandemic preparedness issues. They have to respond to risks by the way of an appropriate assessment, taking into account local legislation, cultural and organisational specific policies, economic background, number of employees, contractors and local emergency medical services (EMS) systems. These plans and procedures must include:

- Medical supplies and equipment – such as first aid kits, automatic external defibrillators (AEDs), drugs for emergency care, respirators, portable medical equipment, tele-medical equipment, appropriate personal protective equipment (PPE) for medical staff, ambulances, and additional vehicles as needed
 - Infrastructure – e.g. field clinics, first aid stations, and muster points.
 - Human resources – minimal number of first aiders, paramedics, nurses, and doctors as well as distribution of work shifts
 - Organisational plans – including alarm plans, plans of installations, means of communication, plans for maintenance of medical equipment & replacement of medical goods, and development of ‘emergency medical guidelines’ on medical care and ‘fact sheets’ on chemicals employed
 - Cooperation with other internal/external rescue and public/private services (e.g. fire departments), and EMS systems incl. medevac procedures. In case of disaster, plan to accept external assistance of occupational health services including human resources
 - Provision for mass casualties and disaster care
- Preparedness and training
 - Occupational health provisions for emergency care providers – such as immunizations, training aimed at site-specific risks, PPE, and access to specific health promotion programmes
 - Training plans to build and maintain skills and competencies – including first aid courses, training for medical staff, medical emergency drills, and cooperation with internal & external rescue teams and other care providers
 - Audit procedures – including plans for internal and external audits to ensure quality and continuous improvement
 - Communication lines – internal and external including media info and contacts
 - Refresher courses and compulsory ‘long life learning’ during the working time
- Prevention of emergencies and follow-up
 - Risk assessment: Medical emergency care needs at workplaces should be identified through a thorough risk assessment. This includes

physical, chemical, ergonomic, work organisation and environmental influence factors such as climate, and epidemic problems. This assessment must take into account local emergency response characteristics such as time for EMS to reach the scene, and time to reach medical facilities by any means of transportation such as by road, sea, air, etc.

- Surveillance system based on risk assessment and adverse health effects to trigger an alert response in case of a potential emergency occurred.
- Psychosocial care –debriefing preparedness sessions should address both involved employees and medical staff if needed. This will provide opportunities to gain access to trained psychological resources in case of unexpected need.
- Special follow-up of responders as needed
- Use of reporting tools & lessons learned

All of these elements are linked together for the purpose of improving workers' health and safety from those injured to responders.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

1) Business meeting:

Venue: During Paris Workshop

Date: 3 April 2020 (Virtual, COVID)

Number of attendees: 15

One candidate for election of chair and elected among the connected (unanimity) (Susanne Schunder-Tatzber), joint effort for the COVID

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	Emergencies @ the workplace				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	Friday 3 April 2020 (Virtual)				
Venue:	Le Beffroi (Montrouge - Paris Area - France)				
Organizers:	SFMTU, IRESU (EMS training), ICOH				

Co-organizers and Collaborators: Please identify and describe roles.	JAMU (Training in emergency for French occupational health practitioners)
Number of participants:	15
Publication or provision of CD/DVD proceedings:	No
Book of abstracts:	No
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success / impact:	15 attending in the first wave of COVID

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

Inside collaboration of WHO/ILO, extensive collaboration with SC WOPS members, and SC Occupational Toxicology (preparation of a symposium).

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Co-leading one topic of WHO/ILO collaboration, and many members of SC EPROH involved.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

We are collaborating with the Reference Center for First Aid Education of the International Federation of Red Cross/Red Crescent (IFRC) on developing the First Aid Guideline 2020 focussed on work-related incidence. The new Guidelines for First Aid Education were published in early 2021. This collaboration includes the collaboration with the European Resuscitation Council.

We stay in close contact with the Health Management group of IOGP/IPECA & CONCAWE and promote their emergency related issue.

A web-based questionnaire on pandemic preparedness and learning was developed and sent to members of our SC, to IFRC and to IOGP/IPECA and CONCAWE. The results of these questionnaires were presented during meetings of:

- SPE Virtual Conference and Exhibition on Health, Safety, Environment (July 27-31, 2020). About 120 participants took part in the session 'COVID 6 month – lessons learned', which was followed by interesting discussions
- Annual Meeting of the Austrian Society of Occupational Health (130 participants) in St. Pölten on October 3, 2020
- At the Annual Meeting of Health Management Group of IOGP/IPECA in March 2021
- In a special session of III International Conference 'Sustainable Development of Remote Healthcare' (Tomsk – September 10, 2021)
- At the quarterly meeting of Health Group of CONCAWE on September 28, 2021.

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Two Special Sessions:

- SS 08 – 'From the chemical massive disaster to the prevention', in collaboration with SC on Occupational Toxicology (SC OT)
- SS 28 – 'Occupational Health in Disaster Management, Response, Research, and Preparedness' in collaboration with SC on Respiratory Disorders

One Free Paper Session for which abstracts are undergoing a peer-review process.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- We aim to have a midterm meeting in web format.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Assessment of WHO/ILO collaboration

Continuation of collaboration with the Reference Center for First Aid Education of the International Federation of Red Cross/Red Crescent (IFRC) on updating the First Aid Guideline 2025 of IFRC and continue to collaborate with organisations, working groups on emergency preparedness and OH.

Formalise collaboration with:

- Faculty of Remote, Rural and Humanitarian Healthcare of the Royal College of Surgeons of Edinburgh, Scotland
- Russian Remote Health Care Association

Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Assessment of WHO/ILO collaboration

Publishing a full report on the pandemic preparedness questionnaire with plans for action.

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review past events, activities and deliverables, and provide an assessment of the SC outputs.

WHO/ILO collaboration and organising a first workshop were the two main achievements.

Collaboration with IFRC to continue focussing on first aid in occupational settings – will be continued in the next triennium.

Invitation to present experiences in international meetings and conferences.

PART V - Evaluation of this SC Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:		Email address:	
Title	First Name	Last Name	E-mail
Dr.	Lead Eric M.	ABELGAS	lead_eric@yahoo.com
Mr.	Nicholas Naruna	AIGBOVO	nicholas.aigbovo@gmail.com
Dr.	Okon Otu	AKIBA	akibaokon@gmail.com
Dr.	Michel	BAER	michel.baer@rpc.aphp.fr
Dr.	Fathi	BEN LARBI	dr.benlarbi@gmail.com
Dr.	Jefferey L.	BURGESS	jburgess@email.arizona.edu
Dr.	Geoffrey Mc Call	Calvert	gcalvert@cdc.gov
Dr.	Subrata	CHATTERJEE	subrata432002@gmail.com
Dr.	Miguel Ricardo	COLI SALAS	drmiguelcoli@gmail.com
Dr.	Nicholas Keith	COOPER	nick.cooper@doctors.org.uk
Dr.	Rogelio v.	DAZO	docdazo@yahoo.com
Dr.	Alexis	DESCATHA	alexis.descatha@inserm.fr
Mrs	Dorothy	DINGWIZA	dxozumti@gmail.com
Dr.	Felix Enrique	ECHEVARRIA REYMER	felixechevarria@conalvias.com
Mr.	Ahmed Mohamed	EL MAKATY	ahmed.elmakaty@outlook.com

Dr.	Babacar	FALL	babacar.fall@orange-sonatel.com
Dr.	Diana	GAGLIARDI	d.gagliardi@inail.it
Dr.	Gunawanta	GINTING	gunawanta@gmail.com
Dr.	Todd Leland	HAMEL	dochamel@gmail.com
Dr.	Philippe	HAVETTE	philippe.havette@wanadoo.fr
Dr.	Richard James	HERON	richard.heron@uk.bp.com
Dr.	Marie Yvette	JARAMILLO	ysjmd_fpcom@yahoo.com
Dr.	Margaret Mary	KITT	ajy8@cdc.gov
Dr.	Tatsuhiko	KUBO	kubo@med.uoeh-u.ac.jp
Dr.	Olivier	LO	olivier.lo@internationalsos.com
Dr.	Ashish	MITTAL	info@ohs-mcs.org
Ms	Farah Wahida	MOHD.RAZELAN	farah@vts.net.my
Dr.	Horatiu Remus	MOLDOVAN	horatiumoldovan@gmail.com
Prof.	Jacqueline	MOLINE	jmoline@northwell.edu
Dr.	Shubhendu	MUDGAL	mudgals59@gmail.com
Mr.	Syed Aamir	MUKHTAR	khan_syedaamir@yahoo.com
Dr.	Anna	OZGULER	anna.ozguler@aphp.fr
Dr.	Bruno	PAPALEO	b.papaleo@inail.it
Dr	Zheela Cherriz G.	PONCE	zheela05@yahoo.com
Ms	Sylvie	ROTTHIER	rotthiersylvie@yahoo.fr
Dr.	Susanne	SCHUNDER-TATZBER	susanne@schunder.at
Mr.	Tangavelu	SELVA KUMAR	selva@vts.net.my
Ms	Promila	SHARMA	promila34@gmail.com
Mrs	Styliani	TZIAFERI	sttziaf@hotmail.com
Ms	Paula Regina	VIAPIANA	pviapiana@adium.com.uy
Dr.	Koji	WADA	kwada-sgy@umin.ac.jp
Prof.	Sangah Barthélémy	WOGNIN	



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

15 October 2021

Submitted by SC:

Epidemiology in Occupational Health
(SC EPICOH)

Name of Chair:

Roel Vermeulen

Year of Appointment:

2018

Email address:

R.C.H.Vermeulen@uu.nl

Name of Secretary:

Damien McElvenny

Year of Appointment:

2018

Email address:

Damien.McElvenny@iom-world.org

SC Website URL (if available): <http://www.icoh-epicoh.org/>

Other SC Means of Communication:

Occasional e-mails and newsletters sent to the membership.

Focus and aim of the SC:

The Scientific Committee on Epidemiology in Occupational Health (SC EPICOH) of the ICOH has as its main function, promotion of communication among epidemiologists, industrial hygienists, and other occupational health scientists worldwide.

EPICOH provides a forum for the discussion of problems unique to the study of health and work. With membership open to occupational epidemiologists and other scientists worldwide, EPICOH provides a variety of forums for discussions, critical reviews, collaborations and education on issues of occupational exposures and their human health effects.

EPICOH's official journal is [Occupational and Environmental Medicine \(OEM\)](#), a peer-reviewed journal published by BMJ. OEM publishes high quality research relating to hazards in the workplace and to environmental contaminants and their health effects.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) **Business meeting:** We have had no full business meetings since January 2020 due to the COVID-19 pandemic. We plan to hold one during the virtual EPICOH meeting in October 2021

Venue: Online

Date: 28 October 2021

Number of attendees: Not applicable.

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	EPICOH Webinars: 1. EPICOH Lifetime Achievement Award Winner and Early Career Award Presentations 2. Panel Presentations and Discussion: The Use of Systematic Tools in the Evaluation of Epidemiologic Studies in Risk Assessment and Hazard Identification				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	9 December 2020 and 11 December 2020				
Venue:	Online				
Organizers:	Marie-Elise Parent: Armand-Frappier Santé Biotechnologie Research Centre, Institute National de La Recherche Scientifique, Canada and				

	France Labreche: Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail, Canada
Co-organizers and Collaborators: Please identify and describe roles.	Financial Support: University of British Columbia Co-organisers of scientific content: Laura Beane Freeman, National Cancer Institute, United States Susan Peters, Utrecht University, the Netherlands Vivi Schlunssen, Aarhus University, Denmark
Number of participants:	About 1000
Publication or provision of CD/DVD proceedings:	We are in the process of investigating whether we could publish the presentations on a youtube channel.
Book of abstracts:	Not applicable
Book of selected proceedings:	Not applicable
Special issue of peer reviewed journals:	Not applicable
Assessment of success / impact:	While there was not a formal assessment of impact, the success is evident by the number of attendees at these webinars. We reached many people who do not regularly attend EPICOH annual meetings. The registration for the upcoming EPICOH meeting (October 25-28) is >600 participants. Many are first time attendees who attended the December 2020 webinars.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

Not applicable

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

Not applicable.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Not applicable

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

Not applicable

Any other points of relevance:

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Peer-review of epidemiological abstracts submitted for Free Paper Sessions at the ICOH2022 Congress.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

We plan to have a business meeting around the time of the ICOH2022 Congress. The date has yet to be arranged. We have already elected a new EPICOH Management Committee including a new Chair and Secretary. The new committee will shadow the existing committee until assuming office at the February 2022 business meeting.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Nothing planned at present.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Nothing planned at present.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:
(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)

Nothing planned at present.

Any other points of relevance:

We are having a dialogue with ICOH about making some funding available for small projects that might be undertaken by Scientific Committees. We anticipate taking this forward in the form of a formal proposal for ICOH's consideration.

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)

We have secured a relationship with Occupational and Environmental Medicine; they are now our partner journal.

We continue to make provision for our Early Career Researchers to be involved in EPICOH conferences.

We have introduced early-career and mid-career research awards, to set alongside our lifetime achievement awards.

Lifetime achievement: Debra Silverman

Mid-career: Michelle Turner

Early career: Botembetume Maboso

The EPICOH 2023 conference will be held at the Tata Memorial Centre in Mumbai, India, March 15-17 2023.

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI - List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members (Management Committee)

Name:	Email address:
Roel Vermeulen	R.C.H.Vermeulen@uu.nl
Damien McElvenny	Damien.McElvenny@iom-world.org
Laura Beane Freeman	freemala@mail.nih.gov
Rajiv Kumar Jain	rajivkjain57@rediffmail.com
Shlomo Moshe	moshe222@actcom.co.il
Leslie Stayner	ltstayner@gmail.com
Mary Schubauer-Berigan	BeriganM@iarc.fr

Incoming members:

Sara De Matteis	sara.dem@unica.it
Ann Olsson	olssona@iarc.fr
Ayman Ekram	fomscu3@gmail.com

Members who left the SC since the submission of the SC Midterm Report:

Name:	Email address:
--------------	-----------------------

Not applicable.



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Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

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Date:

24 October 2021

Submitted by SC:

History of Prevention of Occupational and
Environmental Diseases

Name of Chair:

Paul Blanc

Year of Appointment:

2018

Email address:

paul.blanc@ucsf.edu

Name of Secretary:

Kjell Torén

Year of Appointment:

2018

Email address:

kjell.toren@amm.gu.se

SC Website URL (if available):

Other SC Means of Communication:

Focus and aim of the SC:

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:**

Venue: Webinar

Date: 23 February 2021

Number of attendees: 96 (non-members were also allowed to participate)

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**Conferences, Seminars, Workshops, Courses, etc.:**

(1) Name of the event:	Reconsidering the politics of occupational health in a world without industrial work				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
		✓ Webinar			
Date:	23 February 2021				
Venue:	Webinar				
Organizers:	Rajen Naidoo, University of KwaZulu-Natal, Durban, South Africa				
Co-organizers and Collaborators: Please identify and describe roles.	Informal collaboration with other occupational societies in South Africa				
Number of participants:	250				
Publication or provision of CD/DVD proceedings:	No				
Book of abstracts:	No				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:	The webinar was rated as 'successful' by a most participants based on informal feedback				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

Not applicable

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

Not applicable

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Not applicable

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

Not applicable

Any other points of relevance:

Not applicable

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned scientific contributions to the ICOH2022 Congress:

Special Session planned for the ICOH2022 Congress			
Coordinator	Paul Blanc MD MSPH UCSF SF CA USA		
Co-Chairs	Rajen Naidoo MD PhD (Durban, South Africa) and Haley Barnes MD (Melbourne, Australia)		
Special Session Title	What the history of silicosis teaches us about the 21 st century new epidemic of pneumoconiosis		
Content description and rationale	The long history of silicosis illustrates the pathways this disease has traveled. It goes from mines worked by slaves in ancient times to mechanized mills in the 19 th century that spelled an early death from 'grinders rot' to 20 th century codification of what was counted and what was not counted as disease down to our own times in which a new epidemic of disease has erupted		
Presentations	Speaker name	Presentation title	Learning outcomes
Speaker #1	Michele Riva, MD PhD Università degli Studi di Milano Bicocca, Milan michele.riva@unimib.it	Silicosis before it had a name	To clarify what can be understood and what should <i>not</i> be presumed from early descriptions of respiratory disease in persons likely to have been exposed to silica dust, especially miners disease (bergsucht)
Speaker #2	Paul Blanc MD MSPH University of California San Francisco, CA paul.blanc@ucsf.edu	Silicosis from the Industrial Revolution until the 1906 founding of ICOH	To delineate the emerging understanding and changing nosology of silica dust-related lung disease as well as the ways in which changing technology both caused disease and aided in its diagnosis
Speaker #3	Paul-André Rosental, PhD Center for History, Sciences Po, Paris, France rosental@sciencespo.fr	Negotiating silicosis in the 20 th century - Before and after the 1930 Johannesburg Conference	To explicate how concepts of what constituted silicosis were codified in the 20 th century and how this was a matter of 'negotiation' as much as impartial biomedical knowledge.
Speaker #4	Rajen Naidoo, MBChB, DOH, PhD University of KwaZulu-Natal, Durban, South Africa naidoon@ukzn.ac.za	Preventing silicosis: From medical selection to dust control	To outline the meaning of preventing silicosis along the 20 th century from medical monitoring to selecting new workers

			to technical intervention for dust suppression
Chair's Closing Comments	Haley Barnes, MD Monash University Melbourne, Australia hayleynbarnes@gmail.com	Silicosis in the 21 st century	To call attention to the ways in which history is repeating itself in 21 st century silicosis, the paradigm being the current artificial stone disease epidemic.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

We plan an IRL conference in Durban, Spring of 2024. We are considering an interval webinar to be hosted by Sciences Po in 2023.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Not applicable

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Not applicable

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Not applicable

Any other points of relevance:

Not applicable

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

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Our webinar had three-fold participation or more from our recent in-person conferences. We do not have any metrics, however, to assess global occupational health and any comments in that vein would be wholly speculative.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)**SC Members****Name:****Email address:**

Please refer to ICOH database

Members who left the SC since the submission of the SC Midterm Report:**Name:****Email address:**

Not applicable



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cmcanogueira@gmail.com
Secretariat General icoh@inail.it

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Date: 24 October 2021
Submitted by SC: Indoor Air Quality and Health
(SC IAQH)

Name of Chair: Peder Wolkoff
Year of Appointment: 2018
Email address: pwo@nrcwe.dk

Name of Secretary: Kenichi Azuma
Year of Appointment: 2019
Email address: kenazuma@med.kindai.ac.jp

Note: Our SC is conducted with the assistance of former Chair Paolo Carrer.

SC Website URL (if available):
<http://www.dibic.unimi.it/ecm/home/collaborazioni-internazionali/icoh>

Other SC Means of Communication:

Focus and aim of the SC:

Workers employed in the non-industrial building sector (offices, banks, schools, etc.) account for a major part of the labour force in many countries; further, the age of the working force is anticipated to increase. Effects on health, well-being, and work

performance on so-called office workers are reported with high prevalence despite modern building technology, advanced ventilation, the use of low-emitting construction products, and electronic devices. Thus, the indoor air quality (IAQ) in non-industrial buildings continues to be an issue of concern, also in view of potential synergies with psychological and psychosocial stressors. This is because it deals with workers providing services of the highest relevance for the companies/communities/schools and deteriorated performance is costly for the society. Thus, the concern about IAQ in office-like buildings is important, not only from the perspective of health and well-being, but also from the point of work performance and ability to learn, e.g., in schools. Inadequate IAQ may ultimately result in absenteeism and associated diseases. Thus, it is highly relevant to understand indoor environmental, personal, and occupational risk factors and their potential interplay causing the prevalence of poor IAQ complaints, symptoms and associated sickness absence, and deteriorated work performance and learning.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

None held

Conferences, Seminars, Workshops, Courses, etc.:

None held

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

Wolkoff, P., Azuma, K., Carrer, P. Health, work performance, and risk of infection in office-like environments: The role of indoor temperature, air humidity, and ventilation. *Int J Hyg Environ Health*, 233 (2021) 113709 (18 pages).

Wolkoff, P., Azuma, K., Carrer, P. The role of indoor temperature, air humidity, and ventilation in office-like environments: Health, work performance, and risk of infection. *ICOH Newsletter*, 19 (May 2021) 13-15.

Further Note: We have mailed one newsletter to members asking for input ideas, publications, etc, but no response, at all.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- IARC/WHO Working Group of Volume 131 of the IARC Monographs on the carcinogenicity of 'Cobalt Metal (without Tungsten Carbide) and Cobalt (II) Salts, Weapons-Grade Tungsten (with Nickel and Cobalt) Alloy, and Antimony Trioxide', from July 2021 (K Azuma); the WG meeting will be held on 8 - 15 March 2022.

<https://monographs.iarc.who.int/iarc-monographs-meetings/>

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

We realize the low member activity and great difficulty recruiting new members. Second, we are unable to find a new Chair for the next triennium. Thus, we have initiated contact with SC on Neurotoxicology and Psychophysiology (to take the lead) to see how to merge our SCs into one common SC, since we have similar interests and focus on IAQ-problems.

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Free Paper Session: Indoor Air Quality and Health

Special Session: SS 10 – 'Indoor air quality in modern office buildings'

Speakers: Markku Sainio, Kenichi Azuma, Paolo Carrer, and Peder Wolkoff

Triennium 2022-2024 Planned business meetings, conferences, seminars:
(Provide event name, dates, location, if possible)

Will depend on new SC

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:
(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Will depend on new SC

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:
(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)

Will depend on new SC

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:
(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)

No plans now due to our stipulated transition into a new SC (hopefully), sometime in 2022.

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

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SC Final Report:

(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)

We have to be honest that apart from our consensus paper, ICOH Newsletter, one newsletter to members, and one new member, we have not been successful in activating our members. Thus, we are in the process of merging with a similar SC.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)**Name:****Email address:**

NAME	EMAIL
ABBRIITI Giuseppe	medlav@unipg.it
ARAKI Atsuko	AAraki@cehs.hokudai.ac.jp
AZUMA Kenishi (Secretary)	kenazuma@med.kindai.ac.jp
BASAK Sender	serdenbasak@artvin.edu.tr
BOGOPA Kopano	kopsbogopa@gmail.com
CARRER Paolo	paolo.carrer@unimi.it
CHANDRASEKAR Sashikala	sashishekar@hotmail.com
EKPANYASKUL Chatchai	dr_chatchai@hotmail.com
EKPREECHAKUL Thosporn	thosporn.ek@bangkokhospital.com
FIELD William	bill-field@uiowa.edu
FISHWICK David	david.fishwick@hsl.gsi.gov.uk
KABILIO Miguel Sergio	mkabilio@oshgroup.com.au
KISHI Reiko	rkishi@med.hokudai.ac.jp
KOKKONEN Valtteri	not identified
LIM Fang Lee	limfanglee@gmail.com
LINDERS Chris	chris.linders@mensura.be
MCLELLAN Robert Keene	Robert.K.McLellan@dartmouth.edu
MREMA J. Ezra	ezrajm@yahoo.com
MUZI Giacomo	giacomo.muzi@unipg.it
SAKWARI Gloria	gsakwari@gmail.com

REIS Jacques	jacques.reis@wanadoo.fr
RIEDIKER Michael	michael.riediker@scoeh.ch
SAINIO Markku	markku.sainio@ttl.fi
SALO Sami	saksalo@uef.fi
SALOMEN Heidi	heidi.salonen@aalto.fi
SCARLETT Luvín Luke	luvscar@yahoo.com
SINGH Tanusha	tanusha.singh@nioh.nhls.ac.za
TANAKA Masatoshi	mtanaka@fmu.ac.jp
TSE Lap Ah	shelly@cuhk.edu.hk
WOLFF Henrik	henrik.wolff@ttl.fi
WOLKOFF Peder (Chair)	pwo@nrcwe.dk
YALALA Nonhlanhla N	YalalaN@nssa.org.zw
Susane Milahane Manyasi	Susane.manyasi@gmail.com
Haruna M Moda	h.moda@mmu.ac.uk
Harish Phuleria	phuleria@iitb.ac.in

Members who left the SC since the submission of the SC Midterm Report:
Name: **Email address:**



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Secretariat General

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Date:

18 October 2021

Submitted by SC:

Industrial Hygiene (SC IH)

Name of Chair:

Lena Andersson

Year of Appointment:

2015

Email address:

lena.andersson4@regionorebrolan.se

Name of Secretary:

Hyunwook Kim

Year of Appointment:

2015

Email address:

hwkim@catholic.ac.kr

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication: E-mail

Focus and aim of the SC:

- Fulfilling industrial hygiene functions in general
- Platform for sharing new research findings
- Network for SC IH members and other international organisations
- Protect our society by providing needed technical information
- Suggest new research areas for better future

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:**

Venue: IETOX 2020

Date: November 20, 2020

Number of attendees: 10

Date report sent to VP:

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The 2 nd International Industrial and Environmental Toxicology Congress - IETOX 2020				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	November 18-22, 2020				
Venue:	Digital conference				
Organizers:	Industrial Toxicology Association				
Co-organizers and Collaborators: Please identify and describe roles.	SC IH contributed with an IH session at the conference. Lena Andersson was chair for the session and there were three speakers; Chris Keen (UK), Jayandran Mohan (Sultanate of Oman), and Michael Riediker (Switzerland)				
Number of participants:					
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:					

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

***NOTE:** Please do not repeat information already provided in the Midterm Report.*

Collaboration with non-ICOH organisations:

None

Any other points of relevance:

SC IH Chair Lena Andersson have been involved in discussions with IOHA President Thomas Fuller and SC Occupational Health Nursing Chair Kim Davies about educational material of how to inform OH nurses and physicians about industrial hygiene and the advantage by possible use of or cooperation with the hygienists.

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

Free Paper Session titled 'Industrial Hygiene'

Special Session titled SS 11 - 'Respirable Crystalline Silica – Exposure limits, measurements and control measures'

List of speakers:

- Associate Prof Anna Dahlman-Höglund, Sweden
- Associate Prof Deborah Glass, Australia
- Chief senior physician, MD, PhD Merete Drevvatne Bugge, Norway
- Professor Margaret Levin Phillips, USA

Triennium 2022-2024 Planned business meetings, conferences, seminars:

Business meeting in conjunction with the ICOH2022 Congress.

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

Members of SC Industrial Hygiene have attended three international conferences during the Triennium 2018-2022. At the conferences we have had oral presentations on topics within the area of industrial hygiene.

SC Industrial Hygiene contributed with an IH session at the IETOX 2020 Conference with three presenters within industrial hygiene topics.

SC Industrial Hygiene Chair Lena Andersson has taken part in discussions with IOHA President Thomas Fuller and SC Occupational Health Nursing Chair Kim Davies regarding educational material to make industrial hygiene more visible for occupational health nurses and physicians.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)
--

SC Members**Name:****Email address:**

Name	E-mail	Country
Adel Zakaria	zakaria1959@yahoo.com	Egypt
Anna Dahlman-Höglund	anna.dahlman-hoglund@amm.gu.se	Sweden
Blessing Garamumhango	garamumhangob@mimosa.co.zw	Zimbabwe
Charles B Odhiambo	nyawawa@hotmail.com	Kenya
Birama Diallo	drbirama@gmail.com	Mali
Custodio Muianga	custodio.muianga@gmail.com	Mozambique
Darius Tandiabang	Darius.TandiAbang@vale.com	Indonesia
Enoch Barugahare	baru1998@hotmail.com	Uganda
Florentino Zosimo Sanchez Aguilar	florentino.sanchez@outlook.com.pe	Peru
Gerd Sällsten	gerd.sallsten@amm.gu.se	Sweden
Grace Akintunde	GEreku-Omohan@chevron.com	Nigeria
Hayford Etteh	drshined@gmail.com	Ghana
Hyunwook Kim	hwkim@catholic.ac.kr	Korea
Håkan Westberg	hakan.westberg@regionorebrolan.se	Sweden
Isaac B. Kudu	isaacb.kudu@gmail.com	Ghana

Jayandran Mohan	jayandranhse@gmail.com	India
Juan Luis Delgado	juanluis.delgado@hotmail.com	Peru
Kannan Krishnan	kannan.krishnan@irsst.qc.ca	Canada
Karina Peña Prado	karinaprado21@gmail.com	Peru
Kate Jones	kate.jones@hsl.gsi.gov.uk	UK
Kelvin Dick	dickelvin9@yahoo.com	Nigeria
Lalitha Burra	lalitha@nayati.org	India
Lena Andersson	lena.andersson4@regionorebrolan.se	Sweden
Linnea Lillienberg	linnea.lillienberg@amm.gu.se	Sweden
Mahinda Seneviratne	mahinda.seneviratne@workcover.nsw.gov.au	Australia
Michael Riediker	michael.riediker@scoeh.ch	Switzerland
Nikunj Kumar Ashokbhai Desai	Nikunj.Desai@ril.com	India
Nils Plato	nils.plato@ki.se	Sweden
Olgac Tasyurek	ottasyurek@gmail.com	Turkey
Priya Dutta	priyadutta@iiphg.org	India
Roman Ghafari	roman.ghafari@live.com.au	Australia
Rosa Orriols Ramos	rosemarieorriols@gmsil.com	Spain
Shehi Agim	agimshehi@hotmail.com	Albania
Shyam Pingle	drshyampingle@gmail.com	India
Steven Verpaele	SVerpaele@nickelinstitute.org	Netherlands
Tawanda Nherera	tnherera@gmail.com	Zimbabwe
Tevfik Pinar	tevfikpinar@gmail.com	Turkey
Thomas Fuller	tfulle2@ilstu.edu	USA
Uche Josiah Enumah	uchedine507wed@yahoo.com	Lagos
Victoria Arrandale	Victoria.Arrandale@occupationalcancer.ca	Canada
Yacine Niang	2009yass@live.fr	Senegal

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

**The SC Final Report covers the period January 2020 – February 2022.
Please submit it no later than October 24, 2021 to:**

Vice President: Claudina Nogueira claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date: 6 November 2021
Submitted by SC: Mining Occupational Safety and Health
(SC MinOSH)

Name of Chair: Erik Jørs
Year of Appointment: 2015
Email address: erik.joers@rsyd.dk

Name of Secretary: Jinky Lelanie Lu
Year of Appointment: 2018
Email address: jinky_lu@yahoo.com

SC Website URL (if available): <http://www.icoh-minosh.com/>

Other SC Means of Communication: Virtual media

Focus and aim of the SC:

The SC on Mining Occupational Safety and Health (SC MinOSH) provides a rich platform for theoretical and methodological approaches in mining research and advocacies. It encourages both the science of research and the art of communications for policy statements and advocacies in order to promote occupational safety and health (OSH) in mining.

The thrust of SC MinOSH activities is aimed to be multi-sectoral (involving large, middle and small-scale industries, and their workers), multi-disciplinary (involving all disciplines such as medicine, occupational health and safety, allied health, industrial hygiene, social scientists, and engineering, among others), multi-level (both country-specific and international in nature), and multi-strategic (research, advocacy, extension work, and programme/ policy-oriented).

SC MinOSH also encourages networking and meetings of various stakeholders to promote ideas and share knowledge and experiences about workers and workplace health and safety promotion worldwide. It covers a wide array of groups in both large and small-scale mining, formal and informal sectors, as well as the most vulnerable group such as the small-scale miners, women and children involved in, or affected by, mining.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Zoom platform

Date: October 8, 2021 (Friday)

Number of attendees: Seven (7)

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

2) Business meeting:

Venue: Zoom platform

Date: May 28, 2021 (Friday)

Number of attendees: Seven (7)

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

3) Business meeting:

Venue: Zoom platform

Date: December 23, 2020 (Wednesday)

Number of attendees: Nine (9)

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

4) Business meeting:

Venue: Zoom platform

Date: July 30, 2020 (Tuesday)

Number of attendees: Eight (8)

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The Silica-Tuberculosis Link: Updating the Relationship and Prevention Practices				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	15 April 2021				
Venue:	Webinar – Zoom platform				
Organizers:	SC MinOSH Executive Committee, Subcommittee on Silica Dust Exposure and TB, and Subcommittee on Conferences and Publications				
Co-organizers and Collaborators: Please identify and describe roles.	Indonesian Occupational Medicine Specialist Association (IOMA) and the Department of Community Medicine, Faculty of Medicine, Universitas, Indonesia, set up the webinar				
Number of participants:	Over 100, it is difficult to tell as some participate on Zoom and others on youtube				
Publication or provision of CD/DVD proceedings:	https://www.youtube.com/watch?v=N6Tb4_1N87o				
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:	Successful - as per feedback of attendees and viewers				

(2) Name of the event:	Health and Safety in Small-Scale Gold Mining				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	25 August 2021				
Venue:	Webinar – Zoom platform				

Organizers:	SC MinOSH Executive Committee, Sub-Committee on Occupational Health and Services for Mining, and Sub-Committee on Conferences and Publications
Co-organizers and Collaborators: Please identify and describe roles	Indonesian Occupational Medicine Specialist Association (IOMA) and the Department of Community Medicine, Faculty of Medicine, Universitas, Indonesia set up the webinar
Number of participants:	Over 100, it is difficult to tell as some participate on Zoom and others on youtube
Publication or provision of CD/DVD proceedings:	https://www.youtube.com/watch?v=OSA4fgHd29A
Book of abstracts:	
Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	Successful – as per feedback of attendees and viewers

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

***NOTE:** Please do not repeat information already provided in the Midterm Report.*

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Collaboration of Sub-Committee on Silica Exposure and TB, chaired by Marilyn Fingerhut and Perry Gottesfeld, with TB Liaison re: Small-Scale Mining Global Sectoral Report Position Paper.

Letter sent - Re: 2020 State of the Artisanal and Small-Scale Mining Sector Report on May 13, 2021 to:

Dr Rachel Perks
Mr Sven Ulrich Renner
Energy and Extractive Industries World Bank
1850 I Street NW
Washington, DC 20433-0002

Collaboration with non-ICOH organisations:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations *other than* conferences.)

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- Two Special Sessions
- One Free Paper Session
- One business meeting

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- Conference in Kampala, Uganda - September 2022
- Quarterly business meetings

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- Co-organising conferences like in Mumbai 2020

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Collaboration with local partners in organising conferences and webinars e.g. webinars as mentioned above, and Kampala Conference with NGO UNACOH and Makerere University, among others.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

- Planned publications include articles to be solicited from SC MinOSH members, to be published in *Acta Medica Philippina*, a Scopus-indexed medical and health journal

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

SC MinOSH has had important impact during the last triennium. Through the Sub-Committee on Silica Dust and TB we have led the ICOH call for a strong global effort to promote occupational safety and health strategies to prevent TB in high-risk worker populations.

The ICOH Board approved the ICOH TB Statements in April 2018; these have been endorsed by (currently 65) organisations. The Statements, the endorsers, and links to the stories about the ICOH TB efforts are all located at <http://www.ichweb.org/site/ICOH-TB-Statements.asp>

On September 26, 2018, World Leaders endorsed the UN Political Declaration on TB 'United to End Tuberculosis: An Urgent Global Response to a Global Epidemic'.

Thanks to an intense year of effort by ICOH, IOHA and other partners, our suggested language related to highly vulnerable workers is successfully included in this endorsed Declaration. Click on UN Political Declaration and see Paragraph 17, which identifies 'health care workers, miners and others exposed to silica' as high-risk vulnerable groups. Also see Paragraph 31, which reads: 'Commit to... implementing primary prevention in high-risk occupations by reducing silica dust exposures in mining, construction and other dusty workplaces, and worker tuberculosis surveillance and infection prevention and control in healthcare settings'.

The activity in organising and holding conferences and webinars has been high. We have participated in two conferences during this triennium: The 2nd International Conference on Mining Occupational Safety and Health - International Commission on Occupational Health (SC MinOSH-ICOH) Bali, Indonesia October 6-8, 2019, as part of the 13th Indonesian Occupational Medicine Update (IOMU); and the International Conclave on Occupational Health, incorporating ICOH Scientific Programme, Mumbai, India, January-February 2020, co-organised with several other ICOH SCs.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

- | | |
|---------------------------------|----------------------------|
| 1. Alanazi Sahafa | aqeelt@maaden.com.sa |
| 2. Alex Chipara | achipara@yahoo.com |
| 3. Alex Morales | moro5369@gmail.com |
| 4. Anara Doolotova | Anara_Doolotova@kumtor.com |
| 5. Andrea Shaw | andrea@shawidea.com.au |
| 6. Andrei Gireada | andrei.gireada@insemex.ro |
| 7. Anna Suraya | anna_suraya2005@yahoo.com |
| 8. Annalee Yashi | annalee.yassi@ubc.ca |
| 9. Aristides Medard | medardaristides@yahoo.com |
| 10. Banza Lubaba Nkulu Célestin | clubabankulu2017@gmail.com |
| 11. Bao Mgyuen Duy | baovsld@yahoo.com |

12. Benoit Nemery, MD, PhD	Ben.Nemery@med.kuleuven.be
13. Bente Elisabeth Moen	bente.moen@uib.no
14. Boy Hidayat	boyhidayat@gmail.com
15. Bryan B-Trudel	bryan.trudel@uqat.ca
16. Cas Badenhorst	Cas.badenhorst@angloamerican.com
17. Cheryl Young	cheryl.young@mail.utoronto.ca
18. Claudina Nogueira	claudinanogueira@hotmail.com
19. Connard Mwansa	connardmwansa@yahoo.co.uk
20. Daniel Jiménez	medicinadealtura@gmail.com
21. Dave Knight	Drdaveknight1@gmail.com
22. David Lee Sherson	David.sherson@rsyd.dk
23. Diep Nguyen Bich	diepnioeh@gmail.com
24. Donna Mergler	mergler.donna@uqam.ca
25. Dorothy Xozumti	dxozumti@gmail.com
26. Doug Potter	restdoctor@gmail.com
27. Dingani Moyo	moyod@iwayafrica.co.zw
28. Edith Clarke	essieclarke@yahoo.com / Edith.clarke@ghsmail.org
29. Eduardo Algantri	eduardo@fundacentro.gov.br
30. Elias Apud	eliasapud1@gmail.com
31. Elida Wilfred	hildsmacha@yahoo.co.uk
32. Eman Allabany	emanallabany@hotmail.com / emanallabany@gmail.com
33. Emmanuel Cauda	ecauda@cdc.gov
34. Erik Jørs	Erik.joers@rsyd.dk
35. Esteban Oñate	estebanonate@udec.cl
36. Fingerhut, Marilyn	maf2@cdc.gov
37. Florencia Harari	florencia.harari@gmail.com
38. Frank Fox	frankhfox@gmail.com
39. Gabriela Gracia	gabrielagracia10@gmail.com
40. Georges Kalenga Ilunga	ilukalenga@gmail.com
41. Gerdus van der Westhuizen	gerdusvdwest0608@gmail.com
42. Gopolang Sekobe	Gopolang.sekobe@nioh.nhls.ac.za
43. Guido Condarco	gcondarco@plagbol.org.bo
44. H. John	hjohn@comcast.net
45. Hannes Struyweg	hannes.struyweg@icloud.com
46. Harari Arjona Raul E	ifa@ifa.org.ec
47. Елена Хмель	henessy_xs@mail.ru
48. Jairos Nzvimba	nzvimbajairos@gmail.com
49. Jan Pienaar	janpienaar@mweb.co.za
50. Janardhanam Vishnumohan	vishnumohan.jan@gmail.com
51. Jane Frølund Thomsen	jtho0053@bbh.regionh.dk
52. Janvier Gasana	Janvier.Gasana@hsc.edu.kw
53. Jen Fuk Lien	jenfuk.dr@gmail.com
54. Jinky Lu	jinky_lu@yahoo.com
55. John Courtar	John.courtar@atm.gov.sr
56. José Ignacio Méndez Campos	dr.ignaciomendez@gmail.com

57. Joseph Costelloe	joe_costelloe@yahoo.com.au
58. Joshua Garcia	BotGarciaMD@gmail.com
59. K Baloyi	kbaloyi@chamberofmines.org.za
60. KAD Ertoure	kadertoure2003@yahoo.fr
61. Kaj Elgstrand	kajelgst@kth.se
62. Keitany K. Kibor	boranym@gmail.com
63. Kitso Phiri	kitsophiri@bolama.org
64. Lage Buström	lage.burstrom@gmail.com
65. Lars Brandt	Lars.brandt@rsyd.dk
66. LK Hasuren	LkhasurenO@wpro.who.int
67. Ludwig Vinches	ludwig.vinches@gmail.com
68. Luz Marin	marinluzS@gmail.com
69. Margrethe Smidth	margrethe.dialogos@gmail.com
70. Mário Parreiras de Faria	marioparreiras55@gmail.com
71. Mary Ross	profmaryross@yahoo.com
72. Mesfin Yontal	myontall@yahoo.com
73. Michaela V. Pfeiffer	pfeifferm@who.int
74. Moussa Dicko	mdicko@triangleconsulting-mali.com
75. Muchtaruddin Mansyur	m0mansyur@yahoo.co.uk
76. Nancy Coulson	Nancy.Coulson@wits.ac.za
77. 'Nguyen Bich Diep'	diepyhld@yahoo.com
78. Nigel Marsh	mohc@bigpond.net.au
79. Norman Olembo	nolembo@yahoo.com
80. Okon Akiba	akibaokon@gmail.com
81. Onyimbo O'Kerama	ak.onyimbo@gmail.com
82. Orgil Tsogtsaikhan	orgil_issa.mining@erdenetmc.mn
83. Paul Musa Obadia	musa.p.obadia@gmail.com
84. Perry Gottesfeld	okperry@gmail.com
85. Peter Appel	Pa@geus.dk
86. Phiri Nkhoma Thokozile	pthokozile@gmail.com
87. Prahlad Kumar Sishodiya	pksishodiya@gmail.com
88. Rafael Cervantes	rcervantesmorant@yahoo.com
89. Reynaldo Andrés Concha Maureira	reynaldocm@gmail.com
90. Rintamäki Hannu	Hannu.Rintamaki@ttl.fi
91. Rudi Schierl	rschierl@med.lmu.de
92. Sean Young	sdyoung1992@gmail.com
93. Sophia Francesca Lu	sdlu@up.edu.ph
94. Spo Kgalamono	spok@nioh.ac.za
95. Stephan Böse-O'Reilly	Stephan.Boeseoreilly@med.uni-muenchen.de
96. Stephane Halle	stephane.halle@etsmtl.ca
97. Sylvie Nadeau	erest@etsmtl.ca / Sylvie.Nadeau@etsmtl.ca
98. Thuthula Balfour	TBalfour@mincosa.org.za
	tbalfour-kaipa@chamberofmines.org.za
99. Tushar Joshi	kantjoshi@gmail.com
100. Valerie Ngo	valerie.ngo.1@ens.etsmtl.ca
101. Vera Ngowi	Vera2ngowi@yahoo.co.uk / vs@ph.au.dk

102.	Viktoriya Radionova	v.rodionova@i.ua
103.	Vincenzo Nicosia	Vincenzo.nicosia@saipem.com
104.	Vishal Gosavi	dr.vishalgosavi@gmail.com
105.	Vusumuzi Nhlapho	VusumuziN@discovery.co.za
106.	Winnie Rabera Makokha	winniemakokha@gmail.com

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

6 November 2021

Submitted by SC:

Musculoskeletal Disorders (SC MSD)

Name of Chair:

Roberta Bonfiglioli (Italy)

Year of Appointment:

2018

Email address:

roberta.bonfiglioli@unibo.it

Associate Professor of Occupational Medicine

Department of Medical and Surgical Sciences

University of Bologna,

Occupational Health Unit - Sant'Orsola Malpighi Hospital

via Palagi 9, 40138 Bologna, ITALY

phone: +39 051 214 2757 fax: +39 051 214 2609

Name of Secretary:

André Klussmann (Germany)

Year of Appointment:

2018

Email address:

andre.klussmann@haw-hamburg.de

Professor for Occupational Health Science & Ergonomics

University of Applied Sciences Hamburg (HAW)

Faculty Life Sciences

Department Health Sciences

Ulmenliet 20, 21033 Hamburg

phone: +49 40 428 75-6202

SC Website URL: <http://www.ichweb.org/site/scientific-committee-detail.asp?sc=13>

Other SC Means of Communication:

SC MSD members are notified at irregular intervals via the mailing list, e.g. about news for upcoming conferences, announcements or other events which might be interesting for the members of the SC, as well as collaborative opportunities.

Focus and aim of the SC:

- To contribute to science on the topic of musculoskeletal disorders and occupational health
- To develop consensus criteria on relevant issues for the prevention and managing of musculoskeletal disorders in the occupational setting, feasible at international level.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

Business meeting:

None

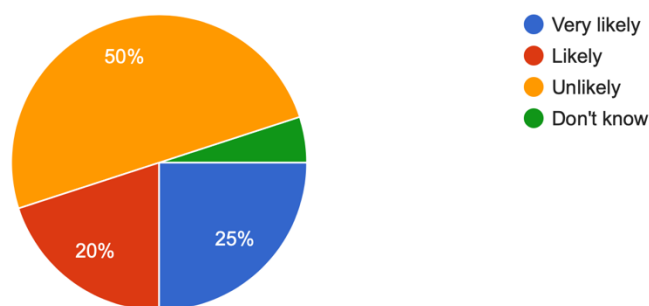
Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	Online Survey Topic: Future planning of the SC MSD				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Survey
Date:	August 25, 2021				
Venue:	Digital platform				
Organizers:	Roberta Bonfiglioli, Andre Klusmann				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	20 of 113 SC MSD members answered the online survey				
Publication or provision of CD/DVD proceedings:	-				
Book of abstracts:	-				

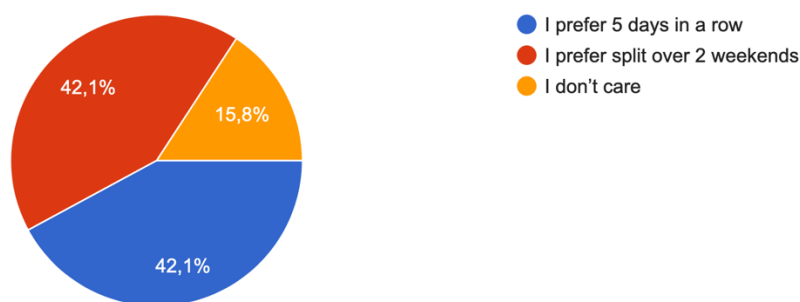
Book of selected proceedings:	-
Special issue of peer reviewed journals:	-
Assessment of success / impact:	Even if only a few participants answered the online survey, important information for future topics and the organisation of our PREMUS conference could be derived

Selected results of the Online Survey (*number of responses: 20*)

1.1 PREMUS 2023 will be initially planned as a purely online conference. However, if the pandemic situation improves significantly, a hybrid event w...uld you consider attending PREMUS 2023 in person?
20 risposte

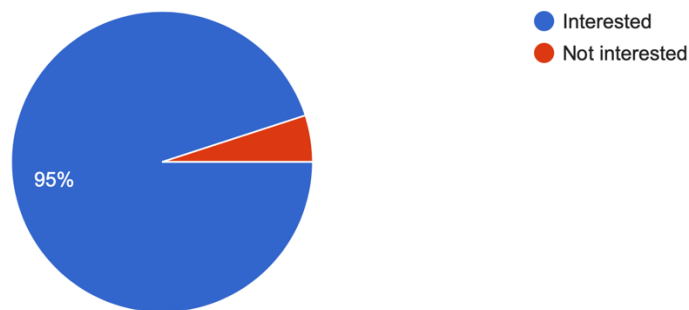


1.2 If PREMUS 2023 will be purely online, what would you prefer: the conference - as before - 5 days in a row (September 20-24, 2023) or spread ...(September 22-24, 2023) for the main conference?
19 risposte



2.1 Please, let us know if you are interested in the proposed emerging themes for the online meeting: work and musculoskeletal health at the time of (and after) the COVID-19 pandemic.

20 response



PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

See below

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location, and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

ICOH SC MSD members participated in WHO/ILO projects, the findings of which have been published as follows:

- Hulshof CTJ, Pega F, Neupane S, Colosio C, Daams JG, Kc P, Kuijer PPFM, Mandic-Rajcevic S, Masci F, van der Molen HF, Nygård CH, Oakman J, Proper KI, Frings-Dresen MHW. The effect of occupational exposure to ergonomic risk factors on osteoarthritis of hip or knee and selected other musculoskeletal diseases: A

systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 May;150:106349. doi: 10.1016/j.envint.2020.106349. Epub 2021 Feb 3. PMID: 33546919.

- Hulshof CTJ, Pega F, Neupane S, van der Molen HF, Colosio C, Daams JG, Descatha A, Kc P, Kuijer PPFM, Mandic-Rajcevic S, Masci F, Morgan RL, Nygård CH, Oakman J, Proper KI, Solovieva S, Frings-Dresen MHW. The prevalence of occupational exposure to ergonomic risk factors: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ Int.* 2021 Jan;146:106157. doi: 10.1016/j.envint.2020.106157. Epub 2020 Dec 14. PMID: 33395953.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

The final draft of the paper 'A Framework for Developing International Criteria for Diagnosing an Occupational Musculoskeletal Disease: An Initiative of the Committee on Musculoskeletal Disorders of the International Commission on Occupational Health (ICOH)' is due in January 2022. The paper will be presented and discussed during the ICOH2022 Congress in a Special Session organised by SC MSD.

By postponing the deadline of this paper, we were able to align with the two aforementioned WHO/ILO papers and the two OMEGA network papers also including members of our ICOH SC MSD:

- van der Molen, H.F., Visser, S., Alfonso, J.H., Stefania Curti, Stefano Mattioli, David Rempel, Yves Roquelaure, P. Paul F. M. Kuijer and Sietske J. Tamminga Diagnostic criteria for musculoskeletal disorders for use in occupational healthcare or research: a scoping review of consensus- and synthesised-based case definitions. *BMC Musculoskelet Disord* 22, 169 (2021). <https://doi.org/10.1186/s12891-021-04031-z>
- Tamminga Sietske J, P Paul FM Kuijer, Kathryn Badarin, Jose Hernán Alfonso, Joana Amaro, Stefania Curti, Irina Guseva Canu, Stefano Mattioli, Ingrid S Mehlum, David Rempel, Yves Roquelaure, Steven Visser, Henk F van der Molen. Towards harmonisation of case definitions for eight work-related musculoskeletal disorders - an international multi-disciplinary Delphi study (*conditionally accepted*)

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Contributions of the SC MSD to the ICOH2022 Congress:

Two Special Sessions were proposed, both were included in the Congress Programme:

1. 'Developing International Criteria for Work-Related Musculoskeletal Disorders' – Organiser: Professor Paul Kuijer (Coronel Institute of Occupational Health, Academic Medical Center, University of Amsterdam, The Netherlands; email; p.p.kuijer@amc.uva.nl). Professor Kuijer is currently leading the ICOH Expert Panel on Diagnostic Criteria for Work-Related MSD. The proposal is related to a relevant topic since the ICOH Board has delegated the SC MSD to set up the working group to write evidence-based diagnostic criteria for occupational musculoskeletal diseases. The expert panel will report on the contents of the document and will promote a discussion among the SC MSD members and all interested participants.

Presenters are as follows:

- Paul Kuijer and David Rempel – What steps have been taken since PREMUS2019, Bologna?
- David Rempel, Francesco Violante, Bradley Evanoff, on behalf of the worldwide working group – Diagnostic Criteria for Work-Related Musculoskeletal Diseases
- Hanizah Mohd Yusoff and Victor Hoe - View from Malaysia
- Henk van der Molen – In tune with the working group of OMEGANet on work-related MSDs?
- Roberta Bonfiglioli - Questions and answers from the participating 24 countries and public present

2. 'Preventing and Managing Occupational Shoulder Disorders' - Organiser: Professor David Rempel (University of California, San Francisco, CA, USA, ICOH # R2516; email: dm.rempel@gmail.com). This is a collaborative initiative of the SC MSD and the SC EOHS (Effectiveness in Occupational Health Services) whose purpose is to offer an overview of the issue from an international perspective.

Presenters are as follows:

- Andreas Seidler (Technical University Dresden, Germany) - A systematic review and meta-analysis of occupational factors related to rotator cuff disorders

- Roberta Bonfiglioli (University of Bologna, Italy) - Disability and physical examination signs among workers with shoulder pain
- Karen Walker-Bone (Medical Research Council, University of Southampton, UK) - Return to work for the worker with a surgically treated shoulder injury
- David Rempel (University of California, San Francisco, USA) - Workplace risk assessment tools for preventing shoulder disorders.

Two Free Paper Sessions

Originally two proposals for Free Paper Abstract Sessions were also submitted:

- 1 - Collaborative strategies for the prevention and management of musculoskeletal disorders (Organisers: Roberta Bonfiglioli and Annechien Beumer)
- 2 - Methods for risk assessment of work-related musculoskeletal disorders (Organiser: André Klussmann)

Since the Congress had to be postponed for a year, and the scientific programme accommodated in a fully virtual format, the original proposal was adapted accordingly.

Shown below is the list of members of the SC MSD involved in the review process for the Free Paper Abstract Sessions:

(1) Organiser and Chief Reviewer:

Roberta Bonfiglioli (Italy)

roberta.bonfiglioli@unibo.it

(2) Assistant Organisers:

Annechien Beumer (Netherlands)

a.beumer@amsterdamumc.nl

André Klussmann (Germany)

andre.klussmann@haw-hamburg.de

(3) Reviewers:

- Roberta Bonfiglioli
- Annechien Beumer
- André Klussmann
- David Rempel (USA): dm.rempel@gmail.com
- Francesco Violante (Italy): francesco.violante@unibo.it
- Yves Roquelaure (France): YvRoquelaure@chu-angers.fr
- Karen Walker-Bone (UK): kwb@mrc.soton.ac.uk
- Henk von der Molen (Netherlands): h.f.vandermolen@amsterdamumc.nl
- Paul Kuijer (Netherlands): p.p.kuijer@amsterdamumc.nl

The SC MSD has also provided support for the Congress by inviting members to submit abstracts for the Free Paper Sessions.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

After the SC MSD business meeting planned for 2022 during the ICOH2022 Congress, the next business meeting will take place during our main conference, viz. the 11th

International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders (PREMUS 2023).

Due to the global outbreak of COVID-19, the organisers of the next PREMUS Conference (originally planned for September 2022), together with the Chair and Secretary of the SC MSD, recognised the opportunity to postpone the event.

PREMUS 2023 will thus take place in September 2023 in Bengaluru, India. The Conference will be initially planned as a purely online conference. However, if the pandemic situation improves significantly, a hybrid event could also be possible.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Not planned yet

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Not planned yet

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

See above

Any other points of relevance:

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

As far as we know, the SC MSD is the largest scientific committee on the subject of work-related musculoskeletal disorders with currently more than 110 members. Worldwide, every fourth day of incapacity for work can be traced back to musculoskeletal complaints, so this topic is of high international relevance.

Our PREMUS Conference (International Scientific Conference on the Prevention of Work-Related Musculoskeletal Disorders) which takes place every three years, will be held for the 11th time in 2023 and thus offers strong continuity. At the last congress in Bologna in 2019, approximately 300 participants from 38 countries took part.

Even if the activities of the SC MSD were severely restricted during the COVID-19 pandemic, we are optimistic that we will be able to continue our PREMUS conference with many participants in the future and maintain a broad international scientific exchange.

The main goal of the SC MSD has been, and continues to be, devoted to encouraging a multidisciplinary scientific approach for the development of evidence-based preventive measures. Moreover, the SC MSD has been traditionally involved in promoting methodological documents drafted by a panel of experts. A consensus document - 'A Framework for Developing International Criteria for Diagnosing an Occupational Musculoskeletal Disease: An Initiative of the Committee on Musculoskeletal Disorders of the International Commission on Occupational Health (ICOH)' - will soon be available to the scientific community.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members (as at October 2021)

#	Title	First Name	Last Name	E-mail
1	Dr.	Miguel	ACEVEDO	Dr.M.Acevedo@gmail.com
2	Mrs	Grace Oluyemi	AKINTUNDE	erek@chevron.com; yemmy_62@yahoo.com
3	Dr.	Sergio	ALMAGUER	almaguer_sap@yahoo.com.mx
4	Mr.	Pedro	ALVARADO FLORES	Pedro.Alvarado@backus.sabmiller.com
5	Dr.	Benjamin Cleveland	AMICK	bamickii@fiu.edu
6	Mrs	Gema	AREVALO ALONSO	fohneusecretary@gmail.com
7	Dr.	Adriana Jardim	ARIAS PEREIRA	ajarias@gmail.com
8	Prof.	Thomas J.	ARMSTRONG	tja@umich.edu
9	Dr.	Agnes	AUBLET-CUVELIER	aublet@inrs.fr
10	Dr.	Elizabeth	BARBA ORTEGA	ebarba2312@yahoo.com
11	Dr.	Denis	BARNABY	barnaby.d@pg.com

12	Dr.	Fathi	BEN LARBI	dr.benlarbi@gmail.com
13	Dr.	Edmond	BEREJENA	edmond.berejena@zimplants.com
14	Dr.	Annechien	BEUMER	a.beumer@amc.uva.nl
15	Prof.	Roberta	BONFIGLIOLI	roberta.bonfiglioli@unibo.it
16	Prof.	Mark g.	BOOCOCH	mark.boocock@aut.ac.nz
17	Prof.	Sandra	BROUWER	sandra.brouwer@med.umcg.nl
18	Dr.	Cintha fiorella	BUSTAMANTE	cfbc_28@hotmail.com
19	Dr.	Alberto	CABAN-MARTINEZ	acaban@med.miami.edu
20	Dr.	Carlos	CAMPOS	campos@labormednet.com.br
21	Dr.	Sunisa	CHAIKLIENG	csunis@kku.ac.th
22	Dr.	Roberto Ernesto	COBIAN	robertocobian@gmail.com
23	Dr.	Katia Maciel	COSTA-BLACK	katia.black@ergonomia.com
24	Dr.	Alexis	DESCATHA	alexis.descatha@inserm.fr
25	Dr.	John Jason	DEVEREUX	jddlia@yahoo.co.uk
26	Dr.	Diana vanda D.	DODA	vanda.doda@gmail.com
27	Dr.	Bradley Alan	EVANOFF	bevanoff@dom.wustl.edu
28	Dr.	Almahir	FERDOUS	roktokorobi@hotmail.com
29	Dr.	José Jesus	FRANCIA ROMERO	jjfrancia@gmail.com
30	Prof.	Monique	FRINGS-DRESEN	m.frings@amc.uva.nl
31	Dr.	Somnath	GANGOPADHYAY	ganguly1961@gmail.com
32	Dr.	Tirthankar	GHOSH	tirthag@gmail.com
33	Dr.	Judith E.	GOLD	Judith.Gold@hig.se
34	Prof.	Mats	HAGBERG	mats.hagberg@amm.gu.se
35	Dr.	Seunghon	HAM	tonyham@snu.ac.kr
36	Prof.	Bernd	HARTMANN	HartmannBernd_Hamburg@web.de
37	Dr.	Peter	HOONAKKER	phoonakker@cqi.engr.wisc.edu
38	Dr.	Olga	ISHTERYAKOVA	olga-ishteryakova2011@yandex.ru
39	Prof.	Toru	ITANI	toruitani@hotmail.com
40	Dr.	Karen	JACOBS	kjacobs@bu.edu
41	Prof.	Dongmug	KANG	kangdm@pusan.ac.kr
42	Dr.	Sougata	KARMAKAR	karmakar.sougata@gmail.com
43	Dr.	Youngki	KIM	mungis@pusan.ac.kr
44	Dr.	Dae Hwan	KIM	kimdh@paik.ac.kr
45	Dr.	Andreas	KLIPSTEIN	klipstein@aeh.ch
46	Prof.	André	KLUSSMANN	andre.klussmann@haw-hamburg.de
47	Dr.	Alkinoi	KRIKELLA	akrikella@hotmail.com
48	Dr.	P. Paul F.M.	KUIJER	p.p.kuijer@amc.nl
49	Dr.	Sudjoko	KUSWADJI	zsudjoko@rad.net.id
50	Dr.	Thomas	LAEBULI	thomas@laeubli.net
51	Dr.	Philippe	LANDTMETERS	philippe.landtmeters@mensura.be
52	Ms	Annette	LECLERC	annette.leclerc@inserm.fr
53	Dr.	Päivi Ilona	LEINO-ARJAS	paivi.leino-arjas@occuphealth.fi

54	Dr.	Maria Teresa	LOPEZ RANGEL	mlopez@quakerstate.com.mx
55	Dr.	Wendy Anne	MACDONALD	W.Macdonald@latrobe.edu.au
56	Dr.	Kishore Purshottam	MADHWANI	kishore.madhwani@unilever.com
57	Dr.	Nicole	MAJERY	nicole.majery@stm.lu
58	Dr.	Stefano	MATTIOLI	s.mattioli@unibo.it
59	Dr.	Luis	MAZON	luis.mazon@salud.madrid.org; lcmc301101@gmail.com
60	Prof.	Guido F.	MOENS	moens.vankerckhoven@gmail.com
61	Dr.	Lesley Alicia	MORALES CHUMACERO	aliciamch@gmail.com
62	Dr.	Minori	NAKATA	m-nakata@kanazawa-med.ac.jp
63	Prof.	Katsuo	NISHIYAMA	nisiyama@belle.shiga-med.ac.jp
64	Dr.	Enrico	OCCHIPINTI	epmenrico@tiscali.it
65	Dr.	Valerie	O'KEEFFE	valerie.okeeffe@unisa.edu.au
66	Mr.	Thomas	OMWEGA	tomwega@kplc.co.ke; moriang@gmail.com
67	Prof.	Yuichiro	ONO	yono@fujita-hu.ac.jp
68	Prof.	Emel	OZCAN	eoacan@istanbul.edu.tr
69	Dr.	Patricia	PADILLA	patripadilla@gmail.com
70	Dr.	Keith Trevor	PALMER	ktp@mrc.soton.ac.uk
71	Dr.	Miriam Esther	PANDURO	miriampanvas@hotmail.com
72	Dr.	Jung-Keun	PARK	ergo.jkpark@gmail.com
73	Dr.	Paula maria	PENA SALGUERO	dra.paulapenasalguero@gmail.com
74	Dr.	Guilherme Pietro Bom	PEROZIN	guilherme@perozin.net
75	Dr.	Mirko	PEZOA	mirkopezoa@gmail.com
76	Dr.	Hugo	PIEDRAHITA	Hugo.Piedrahita@cerrejon.com
77	Mr.	Luiz Cesar	PRACA	luizcpraca@terra.com.br
78	Prof.	Glenn S.	PRANSKY	gpranskymd@gmail.com
79	Prof.	Laura	PUNNETT	laura_punnett@uml.edu
80	Dr.	Debora Miriam	RAAB GLINA	deboraglina@uol.com.br
81	Dr.	Wilder Erick	RABANAL	mederickunt@gmail.com
82	Mr.	Joshua Samuel	RAJKUMAR	joshua.physio@hotmail.com
83	Dr.	Horacio	REEVES GARAY	hreeves@saluslaboris.com.pe
84	Dr.	David Michael	REMPEL	david.rempel@ucsf.edu
85	Prof.	Monika A	RIEGER	monika.rieger@med.uni-tuebingen.de
86	Dr.	Gustavo Adolfo	ROSAL	grosal@prevencontrol.net
87	Mr.	Paul	ROTHMORE	paul.rothmore@adelaide.edu.au
88	Dr.	Noer Triyanto	RUSLI	noer_tr@yahoo.com

89	Dr.	Marian	SALVATIERRA	mariansalvatierra@gmail.com
90	Mr.	Luvín Luke	SCARLETT	luvscar@yahoo.com
91	Dr.	Maya	SETYAWATI	drmaya.setyawati@gmail.com
92	Dr.	DEEPAK	SHARAN	drdeepaksharan@yahoo.com
93	Dr.	Barbara	SILVERSTEIN	bassilver@comcast.net
94	Dr.	Prahlád kumar	SISHODIYA	pksishodiya@yahoo.com
95	Dr.	Gisela	SJØGAARD	gs@ami.dk
96	Prof.	Jaechul	SONG	jsong@hanyang.ac.kr
97	Dr.	Juan Carlos	SOTO	jcsoto@casasgeo.com
98	Ms	Carlien	STRAAT	c.straat@amsterdamumc.nl
99	Dr.	Milena	TABANSKA-PETKOVA	milena_tabanska@abv.bg
100	Dr.	Claudio Hernan	TABOADELA	ctaboadela@fibertel.com.ar
101	Dr.	Norihide	TACHI	ntachi@isc.chubu.ac.jp
102	Dr.	Nabyla	TITRI	nabyla.titri@gmail.com
103	Dr.	Hector	UPEGUI	hector.upegui@de.ibm.com
104	Prof.	Allard	VAN DER BEEK	a.vanderbeek@vumc.nl
105	Dr.	Kaj Bo	VEIERSTED	bo.veiersted@stami.no
106	Prof.	Ricardo	VILLAS-BOAS DEL SEGUE	ricardo.villasboas@fiepr.org.br
107	Prof.	Francesco Saverio	VIOLANTE	francesco.violante@unibo.it
108	Dr.	Morten	WÆRSTED	mwa@stami.no
109	Prof.	David H.	WEGMAN	david_wegman@uml.edu
110	Dr.	Aseni	WICKRAMATILLAKE	aseni.wickramatillake@gmail.com
111	Dr.	Byeong Jin	YE	ong94@hanmail.net
112	A/P	Jangwhon	YOON	doraora@gmail.com
113	Dr.	Doohee	YOU	youd@who.int

Members who left the SC since the submission of the SC Midterm Report:

#	Title	First Name	Last Name	E-mail
1	Prof.	Philippe	MAIRIAUX	ph.mairiaux@ulg.ac.be
2	Mrs	Sonia	TELLO SANDOVAL	sonia.tello@cenea.eu
3	Dr.	Allan	TOOMINGAS	allan.toomingas@ki.se
4	Prof.	Eira R. A.	VIKARI-JUNTURA	eira.viikari-juntura@ttl.fi



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

20 October 2021

Submitted by SC:

Nanomaterial Workers' Health

Name of Chair:

Ivo Iavicoli

Year of Appointment:

2018

Email address:

ivo.iavicoli@unina.it

Name of Secretary:

Irina Guseva Canu

Year of Appointment:

2018

Email address:

irina.guseva-canu@unisante.ch

SC Website URL (if available): <http://www.icohnanomaterial.com>

Other SC Means of Communication: Periodical communications by e-mail.

Focus and aim of the SC:

Focus

ICOH initiated the SC on Nanomaterials Workers' Health to focus on workers who are the first people in society to be exposed to the potential hazards of nanotechnology.

Aims

- 1) Need to learn the extent of implementation of precautionary nanotechnology guidance worldwide, so that in places where there is poor compliance, measures can be taken to increase the awareness, acceptance, and utilization of the guidance;
- 2) Need to develop and disseminate information on precautionary approaches to protect nanotechnology workers in start-up companies.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

Business meetings:

None

Conferences, Seminars, Workshops, Courses, etc.:

None

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

- Iavicoli, I., Fontana, L., Leso, V., Macrini, M.C., Pelclova, D. Fractional exhaled nitric oxide and nanomaterial exposure in workplaces (2020). Current Medicinal Chemistry, 27 (42), pp. 7200-7212.
- Chapter titled: Monitoring Nanomaterials in the Workplace. Authors: Adrienne C. Eastlake, Luca Fontana, Ivo Iavicoli. In Book titled: Allergy and Immunotoxicology in Occupational Health - The Next Step. Editors: Takemi Otsuki, Mario Di Gioacchino and Claudia Petrarca. P. 57-74. Springer Nature Switzerland AG, First Online: 24 June 2020.
- Chapter titled: Safety, regulation, and policy. Authors: Halshka Graczyk, Luca Fontana, Maged Younes, Ivo Iavicoli. In Book titled: Health and Environmental

Safety of Nanomaterials. Polymer Nanocomposites and Other Materials Containing Nanoparticles Second Edition Edited by James Njuguna, Krzysztof Pielichowski, Huijun Zhu. P. 84-95. Elsevier Ltd 2021.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

In collaboration with the ICOH SC on Allergy and Immunotoxicology we have written a chapter of the book 'Allergy and Immunotoxicology in Occupational Health - The Next Step'. Editors: Takemi Otsuki, Mario Di Gioacchino and Claudia Petrarca. P. 57-74. Springer Nature Switzerland AG, First Online: 24 June 2020

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

At the present time we have no planned participation and support to WHO – ILO meetings and/ or publications.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

A Special Session on 'Nanomaterial Workers' Health' is planned for the ICOH2022 Congress.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

We are planning to have the next business meeting at the 33rd International Congress on Occupational Health 2022.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

We are currently collaborating with the WG on the Future of Decent Work. In this regard we are developing a draft white paper that will address potential hazards, etiologic factors, and interventions for the future workforce.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

None

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The success of the SC and its influence in improving global occupational health is demonstrated by the requests from experts to be part of the SC. Furthermore, the publications are receiving interest from the scientific community as demonstrated by the downloads of the articles in the journals in which they were published and by the citations.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

	NAME	EMAIL ADDRESS
1	Al Jahdaly Emad Ali	ejahdaly@imc.med.sa
2	Arevalo Alonso Gema	gemma.arevalo@gmail.com
3	Baptiste Didier	didier.baptiste@inrs.fr
4	Bergamaschi Enrico	enrico.bergamaschi@unipr.it
5	Chavera Bianchi Carlos Jose	chavbi@yahoo.com
6	Chia Sin Eng	sin_eng_chia@nuhs.edu.sg
7	Colautti Maria Cecilia	mccolautti@gmail.com
8	Conti Marcelo Enrique	marcelo.conti@uniroma1.it
9	De Hoyos Claudia	dradehoyos@gmail.com
10	Di Gioacchino Mario	m.digioacchino@unich.it
11	Eerdeken Karine	Karine.Eerdeken@mensura.be
12	Fontana Luca	Lfontana73@yahoo.it
13	Goldoni Matteo	matteo.goldoni@unipr.it
14	Guidotti Tee	tguidotti@nmas.com
15	Guseva Canu Irina	irina.guseva-canu@unisante.ch
16	Hons Luc	luc.hons@imec.be
17	Iavicoli Ivo	Ivo.iavicoli@unina.it
18	Leso Veruscka	Veruscka.leso@gmail.com
19	Madhwani Kishore	kishore.madhwani@yahoo.com
20	Mutti Antonio	antonio.mutti@unipr.it
21	Orriols Rosa M.	cucaorriols@gmail.com
22	Pallapies Dirk	pallapies@ipa-dgouv.de
23	Pelclova Daniela	daniela.pelclova@lf1.cuni.cz
24	Pelizza Ernesto	ernestopelizza@hotmail.com
25	Ricci Maximo Rafael	maximo.ricci@gmail.com

26	Riediker Michael	michael.riediker@scoeh.ch
27	Rydzynski Konrad	konrad@imp.lodz.pl
28	Savolainen Kai M.	kai.savolainen@ttl.fi
29	Schulte Paul A.	PSchulte@cdc.gov
30	Sekobe Gopolang	gopolang.sekobe@nioh.nhls.ac.za
31	Shibata Yasushi	yasushi.shibata@brother.co.jp
32	Thomas Stephen	stephen.thomas@unisa.edu.au
33	Ursini Cinzia L.	cinzialucia.ursini@ispesl.it
34	Wolff Henrik	Henrik.Wolff@ttl.fi
35	Zakharov Sergey	Sergey.Zakharov@vfn.cz

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:

1	Bertazzi Pietro Alberto	pieralberto.bertazzi@unimi.it	(Deceased)
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ICOH 2018-2022 TRIENNium
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

14 October 2021

Submitted by SC:

Neurotoxicology and Psychophysiology

Name of Chair:

Markku Sainio

Year of Appointment:

2018

Email address:

markku.sainio@ttl.fi

Name of Secretary:

Diane Rohlman

Year of Appointment:

2018

Email address:

diane-rohlman@uiowa.edu

SC Website URL (if available): <https://sites.google.com/site/scnp09/>

Other SC Means of Communication: Email and survey

Focus and aim of the SC:

International and regional communication and cooperation for research on occupational and environmental neurotoxicology and psychophysiology focusing on:

- Toxic and damaging effects of chemicals, physical and psychological factors and socioeconomic influences
- Development of measurement for early and late-onset neurotoxic effects
- Laboratory and population studies from various countries and cultural groups
- Encouraging researchers in developing countries and young researchers in general

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:**

Venue: Virtual

Date: 26 August 2021

Number of attendees: 5

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**2) Business meeting:**

Venue: Virtual

Date: 7 December 2021

Number of attendees:

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**Conferences, Seminars, Workshops, Courses, etc.:**

(1) Name of the event:	32 nd Annual Conference of the International Society for Environmental Epidemiology: 'Seasonal Pesticide Use and Transient Physiological and Mental Health Alterations from Childhood to Adulthood'				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	24 - 27 August 2020				
Venue:	Virtual Conference				
Organizers:	ISEE				
Co-organizers and Collaborators: Please identify and describe roles.	Diane Rohlman (presenter)				
Number of participants:					
Publication or provision of CD/DVD proceedings:	N/A				
Book of abstracts:	Book of Abstracts published in Environmental Health Perspectives				

Book of selected proceedings:	N/A
Special issue of peer reviewed journals:	N/A
Assessment of success / impact:	High – session was well attended and interactive Promoted the activities of members of the Scientific Committee

(2) Name of the event:	Digital Workshop: Interventions to reduce pesticide exposure from agricultural sector in Africa				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	15 November 2021				
Venue:	Virtual Workshop				
Organizers:	Aqiel Dalvie, Martin Rösli, Bilateral SA-CH Chairs in Global and Environmental Health				
Co-organizers and Collaborators: Please identify and describe roles.	Diane Rohlman (presenter), Case Study: Example of occupational intervention study				
	Will promote the activities of members of the Scientific Committee				
Number of participants:					
Publication or provision of CD/DVD proceedings:	N/A				
Book of abstracts:	N/A				
Book of selected proceedings:	NA				
Special issue of peer reviewed journals:	N/A				
Assessment of success / impact:	Scheduled for November 2021				

(3) Name of the event:	10 years of NIH funded work in the Philippines: Examining pesticide exposure among children				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	15 January 2022				

Venue:	Virtual Symposium
Organizers:	Enrique M Ostrea, Jr, MD and Tita Uy
Co-organizers and Collaborators: Please identify and describe roles.	Diane Rohlman (presenter)
Number of participants:	
Publication or provision of CD/DVD proceedings:	N/A
Book of abstracts:	N/A
Book of selected proceedings:	N/A
Special issue of peer reviewed journals:	N/A
Assessment of success / impact:	Diane Rohlman (presenter), Case Study: Example of occupational intervention study Will promote the activities of members of the Scientific Committee

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

***NOTE:** Please do not repeat information already provided in the Midterm Report.*

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

Editors: Aschner M and Lucio G. Advances in Neurotoxicology, *Occupational Neurotoxicology*. Chapters by Markku Sainio (Environmental Intolerance), Diane Rohlman (Pesticides), Roberto Lucchini (WTC Neurotoxicities), Gerhard Hageman (Aerotoxic Syndrome), Cristoph Van Thriel (Organic Solvents), Jonathan Rutchik (Carbon Monoxide), and Maria Elena Crespo López (Mercury Neurotoxicity Among Miners).

Preliminary discussion with the chairs of our SC and the SC on Indoor Air Quality and Health on the option to join these two small SCs to 'Neurotoxicology, Psychophysiology, and IAQ'

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

Two Special Sessions were planned for the ICOH conference that was cancelled due to COVID-19. We will now be presenting one at the ICOH2022 Congress (see below).

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Special Session Title: SS 16 - Pesticide Exposure - Understanding pathways of exposure and health outcomes to develop interventions to reduce exposure and improve safety

Presenter 1: Claudio Colosio (ICOH Member), University of Milano & Azienda

Ospedaliera San Paolo - Polo Universitario, Italy

Presenter 2: Jose Ricardo Suarez, University of California San Diego, USA

Presenter 3: Susan Brumby (ICOH Member), National Centre for Farmer Health, Australia

Presenter 4: Diane Rohlman (ICOH Member), University of Iowa, USA

Markku Sainio (Chair of SC NP) will present at the Special Session on Indoor Air Quality in Modern Office Buildings organised by the SC on Indoor Air Quality and Health.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- 33rd International Congress on Occupational Health Conference, 6-10 February 2022
- Bi-annual business meetings – virtual

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Preliminary discussion with the Chairs of our SC and the SC on Indoor Air Quality and Health on the option to join these two small SCs to 'Neurotoxicology, Psychophysiology, and Indoor Air Quality'

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Support and promote the International Neurotoxicology Association Meeting, 16-20 May 2022, Durham, North Carolina, USA

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Editors: Aschner M and Lucio G. Advances in Neurotoxicology, Occupational Neurotoxicology. Chapters by Markku Sainio, Diane Rohlman, and Roberto Lucchini.

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

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SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

N/A

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members:

Name:

Email address:

Title	First Name	Last Name	Email
Dr.	W. Kent	ANGER	k.anger@comcast.net
Prof.	Shunichi	ARAKI	saraki_tky@yahoo.co.jp
Prof.	Michael	ASCHNER	michael.aschner@vanderbilt.edu
Dr.	Rita	BAST-PETTERSEN	rita.bast@stami.no
Dr.	Margit L.	BLEECKER	coen@msn.com
Dr.	Nataliya	BOBKO	nbobko@bigmir.net
Dr.	Maryse	BOUCHARD	maryse.bouchard@umontreal.ca
Dr.	Geoffrey Mc Call	CALVERT	gcalvert@cdc.gov
Dr.	Nicola	CHERRY	ncherry@ualberta.ca
Prof.	Fabriziomaria	GOBBA	f.gobba@unimore.it
Mrs.	Solange	KETELHUTH	sketelhuth@health.sdu.dk
Dr.	Raul	HARARI	ifa@ifa.org.ec
Dr.	Gaku	ICHIHARA	gak@rs.tus.ac.jp
Dr.	Hideki	IGISU	igisu@med.uoeh-u.ac.jp
Dr.	Kyoung Sook	JEONG	bandy0@yahoo.co.kr
Prof.	Seong-Kyu	KANG	sk.kang@gachon.ac.kr
A/P	Yangho	KIM	yanghokm@nuri.net
Dr.	Eun-A	KIM	toxneuro@kosha.or.kr
Dr.	Sibel	Kiran	sibelkiran@gmail.com
Prof.	Reiko	KISHI	rkishi@med.hokudai.ac.jp
Prof.	You-Xin	LIANG	yxliang@shmu.edu.cn
Dr.	Leslie	LONDON	leslie.london@uct.ac.za
Dr.	Roberto G.	LUCCHINI	roberto.lucchini@unibs.it
Prof.	Katsuyuki	MURATA	winestem@med.akita-u.ac.jp
Dr.	Krystyna Magdalena	PAWLAS	k.pawlas@imp.sosnowiec.pl
Dr.	Brad Alan	RACETTE	racetteb@neuro.wustl.edu
Prof.	Harry A	ROELS	roelsharry@telenet.be
Dr.	Diane	ROHLMAN	diane-rohlman@uiowa.edu
Dr.	Basema	SADDIK	basema.saddik@gmail.com

Dr.	Markku	SAINIO	markku.sainio@ttl.fi
Prof.	Joon	SAKONG	jsakong@med.yu.ac.kr
Prof.	Lance Lester	SIMPSON	Lance.Simpson@jefferson.edu
Dr.	Renata	SISTO	r.sisto@inail.it
Prof.	Yasuhiro	TAKEUCHI	ytake@med.nagoya-u.ac.jp
Prof.	Gerhard	TRIEBIG	arbeitsmedizin@triebigh.eu
Dr.	Song-Yen	TSAI	sytsai@ms1.hinet.net
Dr.	Christoph	VAN THRIEL	Thriel@ifado.de
Mrs	Evelien	VAN VALEN	E.vanValen@umcutrecht.nl
Dr.	Eva Gunilla	WASTENSSON	gunilla.wastensson@amm.gu.se
Dr.	Byeong Jin	YE	ong94@hanmail.net
Dr.	Kazuhito	YOKOYAMA	kyokoya@juntendo.ac.jp
Dr.	Sara	THOMÉE	sara.thomee@psy.gu.se
Dr.	Eric	AMSTER	eamster@post.harvard.edu
Dr.	Steven	RONSMANS	steven.ronsmans@kuleuven.be

Members who left the SC since the submission of the SC Midterm Report:

Name:

Prof. Sin Eng
Prof. Philippe Grandjean
Dr. Gunnar HÖGLUND
Prof. Juhani JUNTUNEN
Dr. Esko Matikainen
Dr. Gert Van Der Laan

Email address:

cofcse@nus.edu.sg
p.grandjean@winsloew.ou.dk
gunnar.hoglund@niwl.se
juhani.juntunen8@gmail.com
esko.matikainen@keva.fi
g.vanderlaan@occmed.eu



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

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The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

30 November 2021

Submitted by SC:

Occupational and Environmental Dermatoses
(SC OED)

Name of Chair:

Dr Sanja Kezic

Year of Appointment:

2018

Email address:

s.kezic@amsterdamumc.nl

Name of Secretary:

Prof Dr Swen Malte John

Year of Appointment:

2018

Email address:

sjohn@uos.de

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Focus and aim of the SC:

To improve prevention of occupational skin diseases at all levels from primary to tertiary prevention. Occupational skin diseases comprise a wide spectrum from irritant and allergic contact dermatitis to occupational skin cancer, e.g. by UV radiation. In many countries, they are the most frequent occupational disease.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:**

Venue: Online

Date: 28 January 2022

Number of attendees: approx. 10 (expected)

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**Conferences, Seminars, Workshops, Courses, etc.:**

(1) Name of the event:	Follow-up Workshop of Multi-Stakeholder Meeting				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	8 and 12 October 2020				
Venue:	Online				
Organizers:	European Academy of Dermatology and Veneorology (EADV)				
Co-organizers and Collaborators: Please identify and describe roles.	European Cancer Patient Coalition (ECPC) Association of European Cancer Leagues (ECL) International Commission on Occupational Health (ICOH) ICOH was represented by the President, Dr Jukka Takala (with a presentation), and Prof Dr Swen Malte John, Secretary of the ICOH SC OED, and the Chair of the SC on Radiation at Work, Dr Marc Wittlich.				
Number of participants:	35				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:	https://pr.euractiv.com/pr/eadv-s-and-ecpc-s-action-brief-launch-208444				
Special issue of peer reviewed journals:					

Assessment of success / impact:	Very successful
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(2) Name of the event:	Webinar on the current situation pertaining to occupational (hand) eczema due to the COVID-19 pandemic				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	15 April 2021				
Venue:	Online platform				
Organizers:	EADV Task Force on OSD				
Co-organizers and Collaborators: Please identify and describe roles.	The aim was to exchange internationally on current challenges regarding increased hand eczema in the health care sector due to the pandemic. Brief presentations were made by Croatia, Denmark, Germany, Macedonia and the Netherlands.				
Number of participants:	25				
Publication or provision of CD/DVD proceedings:	N/A				
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:	Successful				

(3) Name of the event:	Non-melanoma skin cancer as an occupational disease				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	??				
Venue:	Online platform				
Organizers:	European Cancer Patient Coalition (ECPC)				

Co-organizers and Collaborators: Please identify and describe roles.	Supported by EADV and ICOH (Prof Dr Swen Malte John, Secretary of the ICOH SC OED)
Number of participants:	35
Publication or provision of CD/DVD proceedings:	
Book of abstracts:	
Book of selected proceedings:	https://ecpc.org/news-events/events/page/3/
Special issue of peer reviewed journals:	
Assessment of success / impact:	Successful

(4) Name of the event:	Non-Melanoma Skin Cancers (NMSC) in Europe: ‘Tackling health inequalities, raising awareness of patients and informal carers, and improving their quality of life’				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					<input checked="" type="checkbox"/> Webinar
Date:	28 October 2021				
Venue:	Online platform				
Organizers:	European Cancer Patient Coalition (ECPC)				
Co-organizers and Collaborators: Please identify and describe roles.	Supported by EADV ICOH President Dr Jukka Takala made a presentation and Prof Dr Swen Malte John, Secretary of the ICOH SC on OED, introduced the session and jointly moderated it with the ECPC Director Antonella Cardone.				
Number of participants:	35				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					

Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	Successful

(5) Name of the event:	Occupational skin cancer and protection at the workplace, in the framework of the 5 th International UV and Skin Cancer Conference (7-9 September 2021), organised by the European Society of Skin Cancer Prevention (Euroskin)				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓		✓		
Date:	7 – 9 September 2021				
Venue:	Online platform				
Organizers:	The satellite workshop was organised by ICOH SC OED together with ICOH SC on Radiation and Work. A satellite workshop on occupational skin cancer, with the participation of ICOH’s President, Dr Jukka Takala, as one speaker and panel discussant.				
Co-organizers and Collaborators: Please identify and describe roles.	ICOH President Dr Jukka Takala gave a presentation and attended the panel discussion.				
	Prof Dr Swen Malte John and Dr Marc Wittlich chaired and moderated the workshop.				
Number of participants:	Approx. 55				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:	Successful				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

Larese Filon, F, Pesce, M Paulo, MS, Loney T, Modenese, A, John, SM, Kezic, S Macan, J (2020) Incidence of occupational contact dermatitis in healthcare workers: A systematic review. *JEADV* Dec 2020. doi.org/10.1111/jdv.17096

Modenese, A Loney T, Rocholl M, Symanzik C, Gobba F, John SM, Straif K, Paulo MS (2021). Protocol for a systematic review on the effectiveness of interventions to reduce exposure to occupational solar ultraviolet radiation (UVR) among outdoor workers. *Frontiers in Public Health, section Occupational Safety and Health*. Vol 9, 2021, 1774. doi. 10.3389/fpubh.2021.756566

Uter W, Johansen JD, Havmose MS, Kezic S, van der Molen HF, Macan J, Babić Ž, Turk R, Symanzik C, John SM. Protocol for a systematic review on systemic and skin toxicity of important hazardous hair and nail cosmetic ingredients in hairdressers. *BMJ Open*. 2021: accepted for publication.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

N/A

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- 9-10 June 2021, WHO Intersun Advisory Board meeting (online): The SC OED Secretary is a member of this expert group and provides expertise with regard to occupational skin cancer risks and prevention.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

N/A

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

See Midterm report

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- Spring 2022: Online webinar on skin cancer registries - challenges and opportunities; in collaboration with the International League of Dermatological Societies and WHO. International experts will be brought together to discuss the most pressing needs to improve registries.
- 10 June 2022: Workshop on 'Occupational Dermatitis', in the framework of the Congress of the European Society of Contact Dermatitis (ESCD) - Amsterdam, 8-10 June 2022; the current SC OED will co-chair the session.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The SC OED has been able to reinforce cooperation with the SC on Radiation and Work, WHO, International League of Dermatological Societies (ILDS), the European Society of Contact Dermatitis (ESCD), the EU Commission, the European Agency for Safety and Health (EU-OSHA), the EADV and the European Cancer Patient Coalition (ECPC). The objective is to join efforts to improve the prevention of occupational skin diseases, including occupational skin cancer, and thus to achieve the goals of the SC, which are in line with the goals of the other organisations mentioned above.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:	Email address:
Kristiina ALANKO	(kristiina.alanko@hus.fi)
Marija BUBAS	(mbubas@hzzzsr.hr)
José Hernan ALFONSO	(jose.alfonso@stami.no)
Michela CRIPPA	(michela.crippa@spedalicivili.brescia.it)
Johan DU PLESSIS	(Johan.DuPlessis@nwu.ac.za)
Fabriziomaria GOBBA	(f.gobba@unimore.it)
Yue-Liang Leon GUO	(leonguo@ntu.edu.tw)
Linn HOLNESS	(holnessl@smh.ca)
Swen Malte JOHN	(sjohn@uos.de)
Sanja KEZIC	(s.kezic@amc.uva.nl)
Francesca LARESE FILON	(larese@units.it)
Ira MADAN	(ira.madan@kcl.ac.uk)
Alberto MODENESE	(albertomodenesese1@gmail.com)
Pietro SARTORELLI	(pietro.sartorelli@unisi.it)
Marc Wittlich	(mark.wittlich@dguv.de)



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

29 October 2021

Submitted by SC:

Occupational Health Nursing (SC OHN)

Name of Chair:

Kim Davies

Year of Appointment:

2018

Email address:

davies.kim1@gmail.com

Name of Secretary:

Kirsi Lappalainen

Year of Appointment:

2018

Email address:

Kirsi.Lappalainen@ttl.fi

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Focus and aim of the SC:

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:**

Venue: Virtual

Date: 10 March 2021

Number of attendees: 3

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**2) Business meeting:**

Venue: Virtual

Date: 09 September 2021

Number of attendees: 4

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**Conferences, Seminars, Workshops, Courses, etc.:**

(1) Name of the event:	Collaboration workshops on Occupational Hygiene Orientation for Health Care Practitioners				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓
Date:	20/11/2020, 27/11/2020, 14/01/2021, 04/02/2021, 20/07/2021				
Venue:	Virtual				
Organizers:	Professor Tom Fuller of the ICOH Working Group on Occupational Infectious Agents (WG OIA)				
Co-organizers and Collaborators: Please identify and describe roles.	Working towards a workshop for all healthcare practitioners on the collaboration between the roles of occupational hygiene and assistance within the occupational health fraternity.				
Number of participants:	6				
Publication or provision of CD/DVD proceedings:	Workshop book and Powerpoint presentation still in process				
Book of abstracts:					

Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	Collaboration still ongoing

(2) Name of the event:	South African Society of Occupational Health Nursing Practitioners (SASOHN) meeting on the SC on Occupational Health Nursing (SC OHN)				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	10 November 2020				
Venue:	Virtual				
Organizers:	SASOHN				
Co-organizers and Collaborators: Please identify and describe roles.	Celebrating occupational health nurses within the COVID pandemic				
Number of participants:	18				
Publication or provision of CD/DVD proceedings:	None				
Book of abstracts:	None				
Book of selected proceedings:	None				
Special issue of peer reviewed journals:	None				
Assessment of success / impact:	None				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

N/A

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

TBC

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

TBC

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

TBC

Triennium 2022-2024 Planned collaborative activities with other (*non-ICOH*) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

TBC

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None at present

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

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SC Final Report:

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More collaboration and training can be done in the next triennium. One of the highlights during COVID is that a lot more can be done virtually. Inter-SC work is more accessible even training and workshops within everyone's reach.

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Membership of SC OHN:

Title	First Name	Last Name	E-mail
Mr.	Pedro	ALVARADO FLORES	Pedro.Alvarado@backus.sabmiller.com
Prof.	Mikako	ARAKIDA	arakida7@gmail.com
Mrs	Tirsa	BARNARD	tirsabarnard@gmail.com
Ms	M. Amparo	BENAVENT	amparobenavent@gmail.com
Ms	Yessica	BERNUY NEYRA	ybernuy@natclar.com.pe
Ms	Janine	BIGAIGNON - FANCHETTE	jfanchette@prevor.com
Dr.	Tamara Young	BLOW	TamaraBlow@msn.com
Mrs	Theresa Margaret	BOSMAN	tbosman@consol.co.za
Mrs	Kathleen	BUCKHEIT	buckheit@email.unc.edu
Prof.	Barbara Jean	BURGEL	Barbara.Burgel@nursing.ucsf.edu
Mrs	Angela Dawn	BUTKOVIC	Angiebconsulting@gmail.com
Mrs	Kay Nordan	CAMPBELL	kay.n.campbell@gsk.com
A/P	Chawapornpan	CHANPRASIT	chawapornpan.cha@cmu.ac.th
Mr.	Grant	CICCONE	grant.cicccone@gmail.com
Ms	Kim	DAVIES	davies.kim1@gmail.com
Dr.	Rita	DE CASSIA DE MARCHI BARCELLOS DALRI	ritacmbdalri@bol.com.br
Mrs	Nicolene	DE JAGER	
Prof.	Julia	FAUCETT	julia.faucett@nursing.ucsf.edu
Prof.	Vanda Andres	FELLI	vandaeli@usp.br
Ms.	Michiyo	ITO	m-ito@thcu.ac.jp
Prof.	Chiyo	IGARASHI	igarashi@stf.teu.ac.jp
Ms	Annette B	HAAG	annettehaag@roadrunner.com
Dr.	Yuriko	HACHIYA	hachiya@med.uoeh-u.ac.jp
Ms	Jeannie K.	HANNA	jhanna@hersheys.com
Mrs	Patricia Anne	HARRISS	aharriss@waitrose.com
Dr.	Karen Louise	HEATON	Kharnp@uab.edu
Ms	Henriett Eva	HIRDI	hirdi.henriett@gmail.com
Prof.	Junko	HATANAKA	hatanaka@y-nm.ac.jp
Mrs	Lindie	JANSEN VAN RENSBURG	lindie@emmica.co.za
Ms	Waruntorn	JONGRUNGROTSAKUL	waruntorn.j@cmu.ac.th
Ms	Annette	JÖRGENSEN	annette.jr@telia.com
Mrs	Wonpen	KAEWPAN	phwkp@mahidol.ac.th
Dr.	Thanee	KAEWTHUMMANUKUL	thaneek32@hotmail.com
A/P	Satori	KAKEMOTO	s-kakemoto@tau.ac.jp
Emer.Prof.	Keiko	KONO	k-kono@xpost.plala.or.jp

Ms	Megan	KINGHAM	mkingham@agl.com.au
Mrs	Sonja	KRUGER	sasohn@mweb.co.za
Dr.	Bernadine B.	KUCHINSKI	
Ms	Kirsi Helena	LAPPALAINEN	kirsi.niiranen@ttl.fi
Mrs	Jennifer	LUDWIG	jludwig@absamail.co.za
Mr.	Blessing Ngonidzaishe	MAVEMWA	blessingmavemwa@gmail.com
Dr.	Jennifer	MEAKER	meakerj@ecr.sanbs.org.za
Mr.	Rufino jr, Salcedo	MEDADO	rsmedado@bechtel.com
Mrs	Karen Elizabeth	MICHELL	Karen@cosafety.co.za
Prof.	Akiko	MIKI	mikiaki@md.tsukuba.ac.jp
Ms	Vivian Aline	MININEL	vivian.aline@gmail.com
Mrs	Florence	MOYO	flormoyo@iwayafrica.co.zw
Mrs	Orippa	MUZVIDZIWA	muzvidziwao@zimasco.co.zw
Prof.	Mieko	NAKAJIMA	m-nakajima@cs.kinran.ac.jp
Dr.	Paula	NAUMANEN	naumanenpaula@gmail.com
Mrs.	Yumi	NAKAO	yumi_nakao_consul_oh@yahoo.co.jp
Prof.	Junko	NAKATANI	horikawa@health.uoeh-u.ac.jp
Prof.	Noriko	NISHIKIDO	noriko-n@tokai-u.jp
Prof.	Kazuko	NISHIDA	kanishi@med.kurume-u.ac.jp
Mrs	Francisca Uche	OJOMO	uche.ojomo@total.com
Prof.	Yukiko	OKUI	yukikookui35@yahoo.co.jp
Mrs	Penelope Margaret	ORTON	penny@dut.ac.za
Miss	Maria Amparo	ORTUNO	zinizia2000@gmail.com
Ms	Judith S	OSTENDORF	judy_ostendorf@unc.edu
A/P	Özlem	ÖZKAN	ozlem.ozkan@kou.edu.tr
Mrs	Kaija Marjatta	Peurala	peurala.marjatta@saunalahti.fi
Mrs	Louwina Joubert	PRETORIUS	louwna.pretorius@corobrik.co.za
Mrs	Margot	PRETORIUS	PretoriusM@cput.ac.za
Mrs	Jennifer M.	RADFORD	radfordej@globalnet.co.uk
Ms	Susan A.	RANDOLPH	susan.randolph@unc.edu
Dr.	Maria Helena	RAUTIO	maria.rautio@ttl.fi
Ms	Leila	RAUTJÄRVI	leila.rautjarvi@ttry.net
Prof.	Bonnie	ROGERS	rogersb@email.unc.edu
Mrs	Sumlee	SALEEKUL	sumlees@hotmail.com
Prof.	Minako	SASAKI	m-sasaki@thcu.ac.jp
Dr.	Yuka	SATO	yuka0503@med.kurume-u.ac.jp
Mrs	Alma	SCHULTZ	almas@ocsa.co.za
Mrs	Jennifer Rose	SERFONTEIN	jenn.s@mtnloaded.co.za
Prof.	Pimpan	SILPASUWAN	phwkp@mahidol.ac.th
Ms	Wanpen	SONGKHAM	wsongkhu@hotmail.com
Prof.	Minako	SASAKI	m-sasaki@thcu.ac.jp
Ms.	Jun	SUDO	jun.sudo.okhs@gmail.com
Ms	Julie M.C.	STAUN	jules@anarki.dk

Dr.	Beverley-Dacosta	TOBIAS	tobiasftobias@yahoo.com
Ms	Maria Luisa	TUPIA GONZALES	marutupia@gmail.com
Mrs	Styliani	TZIAFERI	stziaferi@nurs.uoa.gr
Dr.	Catharina	VAN ECK	cvaneck@its.jnj.com
Ms	Klari	VARALLYAI	crphysio@island.net
Dr.	Susan Q.	WILBURN	wilburns@who.int
Dr.	Kazurou	YOSHIDA	nmcn.sangyo@gmail.com
Dr.	Etsuko	YOSHIKAWA	e-yoshikawa@redcross.ac.jp
Mrs.	Sue	MARTINUZZI	suemartinuzzi@me.com
Mrs.	Denise	MINNIE	dminnie@randwater.co.za
Mrs.	Michelle	BESTER	Michelle.Bester@bombelaop.co.za

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
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Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

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Date: *Note from ICOH VP – No report received by 30 December 2021*

Submitted by SC: Occupational Medicine (SC OM)

Name of Chair:

Year of Appointment:

Email address:

Name of Secretary:

Year of Appointment:

Email address:

SC Website URL (if available):

Other SC Means of Communication:

Focus and aim of the SC:



**ICOH 2018-2022 TRIENNIUM
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claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

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Date:

15 October 2021

Submitted by SC:

Occupational Toxicology (SC OT)

Name of Chair:

Kate Jones

Year of Appointment:

2018

Email address:

kate.jones@hse.gov.uk

Name of Secretary:

Silvia Fustinoni

Year of Appointment:

2018

Email address:

silvia.fustinoni@unimi.it

SC Website URL (if available):

Since 2015 there is a SC OT website available, hosted by the Health and Safety Executive, UK, at the page:

<http://www.hsl.gov.uk/online-ordering/analytical-services-and-assays/biological-monitoring/icoh-scientific-committee-on-occupational-toxicology>

Other SC Means of Communication:

A LinkedIn page to post news about SC OT activities is operative (<https://www.linkedin.com/groups/4547078>).

A Research Gate project for promoting ISBM 11 was also opened.

Focus and aim of the SC:

The ICOH Scientific Committee on Occupational Toxicology (SC OT) was founded in 1990 in Montreal, Canada. The mission of SC OT is to promote research in all areas of occupational toxicology. A current focus of SC OT is the use of biological monitoring (BM) in exposure assessment and intervention in workplaces and the general environment based on solid scientific and ethical principles. SC OT has organised 11 International Symposia on Biological Monitoring (ISBM) every other or every two/three years, the latest being in Leuven, Belgium in 2019.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meetings:

None held

2) On-line consultation of members for accepting applicants as new members:

Held during 2020 and 2021

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	11 th International Symposium on Biological Monitoring (ISBM 11)				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	27-30 August 2019				
Venue:	Leuven, Belgium				
Organizers:	University of Leuven and SC OT				
Co-organizers and Collaborators: Please identify and describe roles.	Scientific Committees of Toxicology of Metals (SC TM) and of Nanomaterial Workers' Health				
Number of participants:	170				
Publication or provision of CD/DVD proceedings:	No				
Book of abstracts:	Yes, on USB				
Book of selected proceedings:	No				

Special issue of peer reviewed journals:	Special issue of Toxicology Letters published in 2020 - Biomonitoring: ISBM-11 edited by Kate Jones and Radu Toxicology Letters Biomonitoring: ISBM-11 ScienceDirect.com by Elsevier
Assessment of success / impact:	Good. Reached new audience for SC OT activities.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

- Organisation of Special Sessions for the ICOH2022 Congress (see below)

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- Special Session titled 'Benzene: Toward a lowering of occupational limit values and its impact on risk assessment and biomonitoring'
- Second Special Session in collaboration with the SC on Emergency Preparedness and Response titled 'From the chemical massive disaster to the prevention'
- Free Paper Session on Occupational Toxicology and Biomonitoring

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- We are planning the 12th International Symposium on Biological Monitoring (ISBM 12) to be held in Belgrade in 2022 in collaboration with the Serbian Society of Toxicology

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

None

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

Kate Jones will participate at IETOX 2021(in November 2021) with a presentation titled: 'Overview of the ICOH Scientific Committee on Occupational Toxicology and recent global initiatives on human biomonitoring'.

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

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SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Title	First Name	Last Name	E-mail
Dr.	Issaka Yakubu	AKPARIBO	yakayi@gmail.com
Dr.	Mohan Gopal	ATERKAR	mohan.aterkar@ril.com
Dr.	Peter	BOOGAARD	peter.boogaard@shell.com
Dr.	William Bernice	BUNN	wbbunn@gmail.com
Dr.	Johnny Hugo	CALDERON VARGAS	cvjohnny@hotmail.com
Dr.	Sultan Pinar	CETINTEPE	spinarcetintepe@gmail.com
Dr.	Sunisa	CHAIKLIENG	csunis@kku.ac.th
Prof.	Chiara	COSTA	ccosta@unime.it
Dr.	Henry Alexander	CUEVA	hacv14@outlook.com
Prof.	Giuseppe	DE PALMA	giuseppe.depalma@unibs.it
Prof.	Marco	DELL'OMO	mdellomo@unipg.it
Dr.	Radu-Corneliu	DUCA	radu.duca@lns.etat.lu
Dr.	Uche Josiah	ENUMAH	uchedine507wed@gmail.com
Dr.	Ayman Ekram	FAHIM	fomscu3@gmail.com
Prof.	Aida Lucia	FAJARDO MONTIEL	aidalucia.fajardo@gmail.com
Prof.	Concettina	FENGA	cfenga@unime.it
	Vivian Chan Sau		
Dr.	Wai	FUNG	vivian.fung@safework.nsw.gov.au
Dr.	Tomislav	FURLAN	tomislav.furlan@gmail.com
Prof.	Silvia	FUSTINONI	silvia.fustinoni@unimi.it
Dr.	Angela	GAMBELUNGHE	angela.gambelunghe@unipg.it
Prof.	Fabriziomaria	GOBBA	f.gobba@unimore.it

Dr.	Doan Ngol	HAI	haidoanngol@gmail.com
Mr.	Yu	HU	hujifang2002@yahoo.com
Prof.	Ivo	IAVICOLI	ivo.iavicoli@unina.it
Dr.	Gaku	ICHIHARA	gak@rs.tus.ac.jp
Dr.	Hideki	IGISU	igisu@med.uoeh-u.ac.jp
Prof.	Masayuki	IKEDA	m-71-ikeda@nifty.com
Prof.	Marek	JAKUBOWSKI	majakub@imp.lodz.pl
Prof.	Xiangdong	JIAN	jianxiangdongvip@163.com
Ms	Kate	JONES	kate.jones@hse.gov.uk
Dr.	Heiko Udo	KÄFFERLEIN	kaefferlein@ipa-dguv.de
Mr.	Fatih	KEPEZ	fatihkepez@gmail.com
Dr.	Kannan	KRISHNAN	kannan.krishnan@irsst.qc.ca
Dr.	Manuel Francisco	LANDA-ROMERO	manuel.landa.romero@gmail.com
Prof.	Se-Hoon	LEE	ashlee@catholic.ac.kr
Prof.	Sung Soo	LEE	sungsool@sch.ac.kr
Dr.	Veruscka	LESO	veruscka.leso@unina.it
Prof.	Jyrki	LIESIVUORI	jyrki.liesivuori@utu.fi
Dr.	Piero	LOVREGGIO	p.lovreggio@medlav.uniba.it
A/P	Larry K.	LOWRY	larry.lowry@uthct.edu
Dr.	Santiago	MAFFIA BIZZOZERO	smaffia@gmail.com
Dr.	Stefan	MANDIC-RAJCEVIC	stefan.mandic-rajcevic@unimi.it
Prof.	Maurizio	MANNO	maurizio.manno@unina.it
		MORALES	
Dr.	Lesley Alicia	CHUMACERO	aliciamch@gmail.com
Prof.	Antonio	MUTTI	antonio.mutti@unipr.it
Dr.	Beerappa	RAVICHANDRAN	ravichandranroh@ic@gmail.com
Prof.	Jae Hoon	ROH	jhroh@yuhs.ac
Dr.	Paul	SCHEEPERS	paul.scheepers@radboudumc.nl
Prof.	Yasuhiro	TAKEUCHI	ytake@med.nagoya-u.ac.jp
Prof.	Glenn	TALASKA	glenn.talaska@uc.edu
Prof.	João Paulo	TEIXEIRA	jpft12@gmail.com
Dr.	Giovanna	TRANFO	giovanna.tranfo@gmail.com
Dr.	Catharina	VAN ECK	cvaneck@its.jnj.com
Prof.	Claude	VIAU	claud.viau@umontreal.ca
Prof.	Maged	YOUNES	magedyounes@gmail.com
Dr.	Sergej	ZACHAROV	sergej.zacharov@vfn.cz
Dr.	José	ZERTUCHE	drjnzertuche@hotmail.com

New SC OT Members for 2020-2021

Name	Email address
Stefan Mandic-Rajcevic	stefan.mandicrajcevic@gmail.com
Mehmet Erdem Alagüney	alaguney@gmail.com
Renaud Persoons	RPersoons@chu-grenoble.fr
Stephen Verpaele	SVerpaele@nickel institute.org
Joel Tuakuila	joeltuakuila@yahoo.fr

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:

None



**ICOH 2018-2022 TRIENNium
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

30 December 2021

Submitted by SC:

Occupational Health and Development
(SC OHDev)

Name of Chair:

Diana Gagliardi

Year of Appointment:

2015

Email address:

d.gagliardi@inail.it

Name of Secretary:

Ganapati Vasant Prabhu

Year of Appointment:

2018

Email address:

prabhuicoh1821@gmail.com

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

E-mails informing about activities and events in which the SC is involved or that are organised by the SC itself and/or in collaboration with other SCs.

Focus and aim of the SC:

The focus of interest of the SC on Occupational Health and Development is the relation between occupational health and development. The relation between technical and economic development and occupational health should be explored. It should be possible to improve occupational health and safety even in a situation where resources are scarce and unemployment is high. Occupational health and safety should be developed and

sustained taking into consideration the new threats and challenges of the globalized market economy.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Nehru Centre, Mumbai, India

Date: 29 January 2020

Number of attendees: 10

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The International Conclave on Occupational Health (OCCUCON 2020) – Mumbai, India – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	January 28 – February 1, 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	Indian Association of Occupational Health and eight ICOH Scientific Committees (SC OHDev, SC ETOH, SC MinOSH, SC MEDICHEM, SC OHSSEIS, SC RH, SC EOHS and SC OHICI)				
Co-organizers and Collaborators: Please identify and describe roles.	<ul style="list-style-type: none"> • One oral session organised by SC OHDev and chaired by Diana Gagliardi and Shyam Pingle, • Two joint sessions co-organised by SC OHSSEIS, SC MinOSH, SC OHCI and SC OHDev on 'Prevention of Silicosis and Tuberculosis' (Part I co-chaired by Mahinda Seneviratne and Ganapati Prabhu; Part II chaired by Erik Jørs) • One joint session co-organised by SC OHSSEIS and SC OHDev on 'Migrant workers in South/Southeast Asia', co-chaired by Mahinda Seneviratne and Diana Gagliardi 				
Number of participants:	Approx. 250, including > 60 international delegates				

Publication or provision of CD/DVD proceedings:	
Book of abstracts:	Provided in the congress bag
Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	Large participation of national and international delegates. The congress app facilitated interaction (at least for national participants; international participants experienced some connection issues) with live polls and chats.

(2) Name of the event:	9 th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	28-29 April 2021				
Venue:	Online, Zoom platform				
Organizers:	American Society of Safety Professionals (ASSP) – India Chapter				
Co-organizers and Collaborators: Please identify and describe roles.	ICOH SC on Occupational Health in the Construction Industry (SC OHCI); ICOH SC on Occupational Health in Small Scale Enterprises and the Informal Sector (SC OHSSEIS); ICOH SC on Rural Health: Agriculture, Pesticides and Organic Dusts (SC RH); and ICOH SC on Occupational Health and Development (SC OHDev). The chairs of each SC delivered a welcoming address and each SC organised and chaired a technical session where free papers were presented.				
Number of participants:					
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					

Assessment of success / impact:	Good participation and interaction in a well-organised online meeting in times of the COVID-19 pandemic.
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PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

The plans presented in the Midterm report for the (originally) ICOH2021 Congress have completely changed due to the COVID-19 pandemic and the transformation of the 33rd Congress on Occupational Health into a new and fully digital event, now called the ICOH2022 Congress with the new theme 'Sharing solutions in Occupational Health through and beyond the pandemic'.

The new format has brought in some space constraints and the original programme proposed by SC OHDev has been cut down to one oral free paper session (originally two sessions were planned) and to only one special session titled SS 19 - 'Sharing solutions in Occupational Health: Best practices from LMIC countries'. The session will be chaired by Diana Gagliardi (SC Chair) and will include the following four invited speakers:

1. Shyam Pingle - Gamification and benchmarking to achieve occupational health at workplaces: Tools and good practices to improve OSH at the workplace, examples from India
2. Tsuyoshi Kawakami - Participatory approaches to improving safety and health in small and informal economy workplaces in South Asia
3. Ehi Iden - Challenges towards OSH growth and workplace improvement implementation in Africa
4. Elia Enriquez Viveros - Compassion fatigue: The other pandemic – The situation with healthcare workers in Latin America.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

The SC will face a complete change in leadership. Hence, no plans are possible at this stage.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

The SC will face a complete change in leadership. Hence, no plans are possible at this stage.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

None

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The current triennium has been characterized, at least in the second part, by the COVID-19 pandemic that has shuffled programmes and activities on a global scale. The SC has been active in organising a large joint event just before the spread of the global health crisis, in collaboration with the Indian Association of Occupational Health and another seven Scientific Committees, with a large participation of local (Indian) and international delegates.

Also, during the health crisis, the SC has been able to contribute to an online event organised by the American Society of Safety Professionals – Indian Chapter in collaboration with three other Scientific Committees.

This confirms the capacity of the SC to collaborate with other ICOH SCs creating networking opportunities and sharing knowledge, expertise and experiences in different fields of occupational health.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members**Name:****Email address:**

José Hernan	ALFONSO	jose.alfonso@stami.no
Dileep	ANDHARE	dileepandhare@gmail.com
Occupational Health Nurses	Association for Ireland	mary@healthmattersni.com
Nguyen Duy	BAO	baovsld@yahoo.com
Raul	BARANANO	baranano@medilab.com.uy
Nduwamungu	BARNABE'	barnabenduwa@yahoo.fr
Guillermo Oscar	BATER	oscarbater@gmail.com
Jean-jacques	BERNATAS	jjbernatas@gmail.com
Daniela	BLECK	bleck_daniela@gmx.de
Simon Paul	BULTERYS	simon.bulterys@idewe.be
Cinthya fiorella	BUSTAMANTE	cfb_c_28@hotmail.com
Patricia	CANNEY	pcanney@une.net.co
Junming	DAI	jmdai@shmu.edu.cn
Santosh Vishnu	DATAR	svdat@yahoo.com
Rocio	DE DIEGO-CORDERO	rdediego2@us.es
Yucel	DEMIRAL	yucel.demiral@deu.edu.tr
Nguyen Bich	DIEP	diepnioeh@gmail.com
Amer	DOBRACA	amerdobraca@gmail.com
Abdeljalil	EL KHOLTI	abdeljalil.elkholti@gmail.com
Kaj	ELGSTRAND	kajelg@kth.se
John Richard	ENNALS	ennals@kingston.ac.uk
Elia L.	ENRIQUEZ	eliaev@prodigy.net.mx
Hayford	ETTEH	drshined@gmail.com
Aida Lucia	FAJARDO MONTIEL	aidalucia.fajardo@gmail.com
Luca	FONTANA	lfontana73@yahoo.it
Diana	GAGLIARDI	d.gagliardi@inail.it
Jorge Mario	GALLEGO PEREZ	jorana@une.net.co
Rajiv	GARG	drrajivgarg@yahoo.com
Tee Lamont	GUIDOTTI	tee.guidotti@gmail.com
Chaitanya Srikar	GULVADY	chaitanya.gulvady1@gmail.com
Jurgen Thomas	HANNAK	hannak4u@gmail.com
Christer	HOGSTEDT	christer.hogstedt@gmail.com
Rajiv Kumar	JAIN	rajivkjain57@rediffmail.com
Abdel-Aziz M.	KAMAL	prof_amkamal@hotmail.com; mkamal@asunet.shams.eun.eg
Collins Omondi	KAMOL	collinskamol@yahoo.co.uk
Irene Wanjiru Muya	KARANJA	muyarene@yahoo.com
Craig	KARPILOW	craig.karpilow@workplacemedical.com
Venant	KAVUYIMBO	kavuyimbov@yahoo.fr
Hyunwook	KIM	hwkim@catholic.ac.kr
Kazutaka	KOGI	k.kogi@isl.or.jp
Evelyn	KORTUM	evelyn_kortum@yahoo.com
Santanam Balaji	LAKSHMIPURAM	balaji.lakshmipuram@tatapower.com

Suvi Anneli	LEHTINEN	suvi.a.lehtinen@outlook.com
Timo Juhani	LEINO	timo.leino@ttl.fi
René	LOEWENSON	rene@tarasc.org
Maria Teresa	LOPEZ RANGEL	mlopez@quakerstate.com.mx
Blessing Ngonidzaishe	MAVEMWA	blessingmavemwa@gmail.com
Luis	MAZON	luis.mazon@salud.madrid.org; lcmc301101@gmail.com
J. Corbett	McDONALD	c.mcdonald@ic.ac.uk
Maritta Tarja-Liisa	METSO	maritta.metso@fimnet.fi
Ronaldley	MITI	mitironaldmawula@yahoo.com
Jorge Alberto	MORALES CAMINO	morales.ja@pg.com
Ramadhan Ladislaus	MSIBIRA	msibirar@yahoo.com
Franklin Kithinji	MUCHIRI	frankmuchiri@live.co.uk
Saeher A. Fatima	MUZAFFAR	saeherm@yahoo.com
Jennifer	NAPIER	jenny@jennifernapier.com
Patrick	NDJOM	patrickndjom@gmail.com
Peter Sunday	NMADU	psnmadu1@yahoo.com
Fredrick Odhiambo	OGONJI	fredogonji@ymail.com
Esther Ruth	PALMER CARRILLO	estheruthpalmer@hotmail.com
Louis	PATRY	lpatry@santepub-mtl.qc.ca
Shyam	PINGLE	drshyampingle@gmail.com
Ganapati Vasant	PRABHU	prabhuicoh1821@gmail.com
Nuri	PURWITO ADI	urin_id@yahoo.com
Vijay	RAO	drvijayrao5389@yahoo.co.in
Liliana	RAPAS	liliana.rapas@gmail.com
Kalyanbrata	SAHA	suskalyan@gmail.com
Alma	SCHULTZ	almas@ocsa.co.za
Deogratias K.	SEKIMPI	dsekimpi@yahoo.com
Krishna Nirmalya	SEN	krishnanirmalya@gmail.com
Divyang	SHAH	divyangas@gmail.com
Angelica	SIEW	angelica.ss.siew@gmail.com
Nayab M.	SULTAN	nmsultan@gmail.com
Claudia patricia	TENORIO PINEDA	20071895@aloe.ulima.edu.pe
Anamai	TETKATHUEK	anamai@buu.ae.th
Norbert L.	WAGNER	nlwagner@web.de
Robert W	WATSON, Jr	robertwat@msn.com
Antonio Federico	WERNER	antoniofedericowerner@gmail.com
Christian	YALA	christian.yala2@gmail.com
Nonhlanhla ndhlovu	YALALA	yalalan@gmail.com

Members who left the SC since the submission of the SC Midterm Report:
Name: **Email address:**

Isaac Benjamin	KUDU	isaacb.kudu@gmail.com
Nsubuga Fred	MANGASI	mambaeka@yahoo.com



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

18 October 2021

Submitted by SC:

Occupational Health for Health Workers (SC OHHW)

Name of Chair:

Gwen Brachman MD

Year of Appointment:

2018

Email address:

gobmd@yahoo.com

Name of Secretary:

Antoon DeSchryver MD

Year of Appointment:

2018

Email address:

antoon.deschryver@uantwerpen.be

SC Website URL (if available):

scohhcw.weebly.com/

Other SC Means of Communication:

E-mails and virtual meetings

Focus and aim of the SC:

The aim of the SC OHHW is to generate and share scientific knowledge aiming to improve the health and safety of health workers, particularly in developing countries. The SC also aims to foster collaborations between practitioners, researchers and public health professionals to promote and improve health workers' health and safety.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Virtual

Date: Scheduled for December 2021

Number of attendees:

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):

Conferences, Seminars, Workshops, Courses, etc.:

Due to the global COVID-19 pandemic none have been held since November 2019.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

- 'Global Shortage of Health Workers' - Publication of BGW – Conference Report – 11th International Joint Conference OHHW2019 on Occupational Health for Health Workers
- SC OHHW Statement in support of Occupational Health for Health Workers - 2020

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- Several members of the SC OHHW consulted on WHO *ad hoc* study committee for developing documents regarding occupational health for health workers during the COVID pandemic.
- A few SC OHHW members participated in the EPICOH Conference in Montreal, Canada, 25-28 October 2021
- The SC OHHW Chair, Gwen Brachman MD, participated in the WHO 'World Patient Safety Day; on 17 September 2020 as an ICOH-SC OHHW representative
- The SC OHHW Chair, Gwen Brachman MD, reviewed the WHO/ILO document on 'National Occupational Health Programmes' for Health Workers as an ICOH-SC OHHW representative

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

- The SC OHHW Chair, Gwen Brachman MD, participated in the IOMSC webinar in September 2020 as an ICOH representative
- The SC OHHW Chair, Gwen Brachman MD, participated in the IOHS webinar in September 2020 as an ICOH representative
- The SC OHHW Chair, Gwen Brachman MD, participated in the HOHS webinar in November 2020 as an ICOH representative

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- A Special Session titled SS 21 - 'Updates on protections against infectious agents in health care'
(Presenters - Gwen Brachman, Antoon DeSchryver, Sophia Kisting, Amy Behrman)
- A second Special Session in collaboration with the SC on Women, Health and Work (SC WHW), titled SS 20 - 'The *other* pandemic: Mental health issues facing health workers during the COVID-19 crisis'

- Reviewers of abstracts received for Free Paper Sessions: Gwen Brachman, Antoon DeSchryver, Bill Buchta, Rosa Orriols, Charles Onigbogi, Acran Salmen Navarro

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- Virtual symposium – Abstract presentations – October 2022
- 12th International Joint Conference OHHW2023 – October 2023

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- Collaboration with the SC WHW for the 12th International Joint Conference OHHW2023 – October 2023

Triennium 2022-2024 Planned collaborative activities with other (*non-ICOH*) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- Several members will participate in a session of the American Occupational Health Conference (AOHC) in collaboration with the International Section of the American College of Occupational and Environmental Medicine (ACOEM) – May 2022
- Collaboration with ACOEM – Medical Center Occupational Health (MCOH) - 12th International Joint Conference OHHW2023 – October 2023 in New York City, USA

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

Largely because of the COVID-19 pandemic, SC OHHW members have been asked to participate in several virtual conferences sponsored by WHO, IOMSC, HOHS, IOHS and in preparation of guidelines and teaching materials developed by WHO/ILO. This has greatly enhanced our visibility as experts in the field of occupational health for health workers and we have added several new members to our SC who have viewed our on-line presentations.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members – List supplied as a separate document

Name:

Email address:

First Name	Last Name	E-mail
Gunnar Arvid	AHLBORG	gunnar.ahlborg@stressmedicin.com
Sandra	ALBINO	sandra.albino.ramos@gmail.com
Enrique	ALVAREZ CASADO	enrique.alvarez@cenea.eu
Ioannis	ADAMOPULOS	ia182523@students.euc.ac.cy
Sakthi	ARASU	Sakthi.as@stjohns.in
Panhwar	AMANULLAH	draman94@yahoo.com
Nayake Bandaralage		
Parakrama	BALALLA	balalla_nbp@yahoo.com
Amparo	BENAVENT	amparobenavent@gmail.com
Michelle	BESTER	besterm@tut.ac.za
Saengdidtha	BOONTERM	boonterms@yahoo.com
Gwen Orr	BRACHMAN	gobmd@yahoo.com
William G	BUCHTA	buchta.william@mayo.edu
Jean-François	CAILLARD	jean-francois.caillard@chu-rouen.fr
Donatella	CAMERINO	donatella.camerino@unimi.it

Jose C.D.	CARNEIRO	jccarneiro@esame.com.br
Celso Cidade	CAVALCANTI	celso@bsbmed.com.br
Naisinee	CHAIEAR	cnaesi@gmail.com
Carlos	CHAVERA BIANCHI	chavbi@yahoo.com
Paul Maurice	CONWAY	paul.conway@unimi.it
Giovanni	COSTA	giovanni.costa@unimi.it
Neusa Maria	COSTA ALEXANDRE	neusalex@fcm.unicamp.br
Antoon	DE SCHRYVER	Antoon.DeSchryver@idewe.be
Lotta	DELLVE	lotta.dellve@amm.gu.se
Rodrigo	DEMARCH	rodrigo.demarch@me.com
Yucel	DEMIRAL	yucel.demiral@deu.edu.tr
Nguyen Bich	DIEP	diepnioeh@gmail.com
Francesco	DRAICCHIO	francesco.draicchio@ispesl.it
Abdeljalil	EL KHOLTI	abdeljalil.elkholti@incvt.ma
Alp	ERGOR	alp.ergor@deu.edu.tr
Madeleine	ESTRYN-BEHAR	madeleine.estryn-behar@sap.aphp.fr
Ruddy Cesar	FACCI	ruddy@insatnet.com.br
Anna Sofia Victoria	FAJARDO	ria.fajardo.md@gmail.com
Vivian	FUNG	vivian.fung@workcover.nsw.gov.au
Marilyn Ann	FINGERHUT	maf2@cdc.gov
Gerard	FRIJSTEIN	g.frijstein@amc.nl
Inas	GABALLAH	inas.gaballah@kasralainy.edu.eg
Ricardo	GARCIA-CAXIAS	ricardowgarcia@gmail.com
Debbie	GASKIN	D.Gaskin@murdoch.edu.au
Jean-Francois	GEHANNO	Jean-francois.gehanno@chu-rouen.fr
Rafik	GHARBI	rafik.gharbi@rns.tn
Shilpa	GOWDA	shilpa.gowda@va.gov
Doan ngol	HAI	haidoanngol@gmail.com
M G	HARISHANAKAR	harishankarmg@gmail.com
Toshiaki	HIGASHI	thigashi@med.uoeh-u.ac.jp
Friedrich	HOFMANN	fhofmann@uni-wuppertal.de
Claudia	DE HOYOS	dradehoyos@gmail.com
Thomas Warner	HUDSON	twhudson@mednet.ucla.edu
Marita	ASMAT INOSTROSA	pilarmarita@gmail.com
Lucia	ISOLANI	lucia.isolani@gmail.com
Ravi Kumar	JAIN	rajivkjain57@rediffmail.com
Bobby	JOSEPH	joseph.bobby@gmail.com
Olajumoke	JOSEPH	jumokejoseph@ymail.com
Malin	JOSEPHSON	Malin.Josephson@medsci.uu.se
Rafael Palmer	JUANEDA	rapalmer@teleline.es
Choy Kwok Yin	KENNETH DAVID	rpalmerju@aeds.org
		Kenneth_CHOY@mom.gov.sg

Hyunwook	KIM	hwkim@catholic.ac.kr
Sibel	KIRAN	sibelkiran@hotmail.com
DJ	KOCKS	Ochealth.Unknown@ul.ac.za
La Torre	GIUESEPPE	giuseppe.latorre@uniroma1.it
Marjukka	LAINÉ	marjukka.laine@occuphealth.fi
Maria	LANZI	mclanzi@outlook.com
Marie-Claude	LAVOIE	marieclavoie@gmail.com
Marc	LEVY	Ma_levi@rambam.health.gov.il
Maria Sofia	LIOCE	cru6@cdc.gov
Olivier	LO	Olivier.Lo@internationalsos.com
Roberto G.	LUCCHINI	lucchini@med.unibs.it
Edmyr	MACABULOS	emmacabulos@gmail.com
Pia	MARKKANEN	Pia Markkanen@uml.edu
Karen Elizabeth	MICHELL	Karen@cosafety.co.za
Philippa N.	MOMAH	philippamomah@yahoo.com
Dingani	MOYO	Midlandsohc@gmail.com
	MUNOZ DEL CARPIO	
Agueda	TOIA	aguedamunoztoia@gmail.com
Daniel L.	MURPHY	dan@merrionoh.ie
Olesja	NEDIC	nedic_o@yahoo.com
Albert	NEINHAUS	albert.nienhaus@bgw-online.de
Charles Jide	ONIGBOGI	jidegbogi@yahoo.com
Yuichiro	ONO	yono@fujita-hu.ac.jp
Robert	ORFORD	rorford@mayo.edu
Rosa	ORRIOLS	cucaorriols@gmail.com
Maria Amparo	ORTUNO MORENO	zinizia2000@gmail.com
Paula	PEÑA SALGUERO	dra.paulapenasalguero@gmail.com
Elayne	PHILLIPS	ekp2e@virginia.edu
Marilou	RENALES	drmarlu@gmail.com
Christiane	RAPPARINI	rapparini@riscobiologico.org
Vijay Kumar	RAMTEKE	vramteke@yahoo.com
Jean-Pierre	REZETTE	jprezette@skynet.be
Carissa Marie	ROCHELEAU	CRocheleau@cdc.gov
Johnny	RODRIGUEZ CAMPOS	jrodriguec@jbgye.org.ec
Bonnie	ROGERS	rogersb@email.unc.edu
Kalyanbrata	SAHA	suskalyan@gmail.com
Acran	SALMEN-NAVARRO	Acran.SalmenNavarro@nyumd.org
Manrique Manuel	SANDI ARIAS	mmsandia@yahoo.com
Arasu	SAKTHI	sakthi.as@stjohns.in
Gogillan	SEVARATAN	gogillan@gmail.com
Warren	SILVERMAN	md@accesshealthsystems.com
Andrew	SITHOLE	drsithole@hippo.co.zw
		fsmith@hoopoo.mrc.ac.za
Ferdinand C.A.	SMITH	fsmith@medic.up.ac.za

Oda	SUSUMU	susumuoda@mx6.tiki.ne.jp
Ian Stevenson	SYMINGTON	is.symington@ntlworld.com
Sonia	TELLO	sonia.tello@cenea.eu
Michael	TRIPPEL	michael.trippel@symba.ch
Katsura	UMEHARA	katmbbox2010@gmail.com
Silvia	VALERO	silvia.valero.garcia@gmail.com
Fabiana	VARELLA	fabi.varella@hotmail.com
Koji	WADA	kwada-sgy@umin.ac.jp
Abdallah Amani	WAHEED EL-DIN	amaniwaheed@yahoo.com
Susan Q.	WILBURN	swilburn@hcwh.org
Jess	WILLIAMS	jessica.allia.williams@gmail.com
Annalee	YASSI	annalee.yassi@ubc.ca
Kazurou	YOSHIDA	nmcn.sangyo@gmail.com
Etsuko	YOSHIKAWA	yoshikawae@tau.ac.jp
Toru	YOSHIKAWA	t.yoshikawa@isl.or.jp
Min	ZHANG	minzhang928@vip.sina.com
Muzimkhulu	ZUNGU	muzimkhulu.zungu@nioh.nhls.ac.za

Undeliverables:

Vera	MACHTELINCKX	v_machtelinckx@hotmail.be
David C.	SNASHALL	david.snashall@gstt.nhs.uk
Monica Ingrid	LAGERSTRÖM	monica.lagerstrom@omv.ki.se
Özlem	ÖZKAN	ozlem.ozkan@kou.edu.tr
Leena	TAMMINEN-PETER	leena.tamminen-peter@ttl.fi
J. Gustav	WICKSTRÖM	gustav.wickstrom@occuphealth.fi
Hediye Asli	DAVAS AKJAN	asli.davas@ege.edu.tr
Gurusamy	JAYAKUMAR	jkumar@manipal.edu.my

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

20 October 2021

Submitted by SC:

Occupational Health in the Chemical Industry
(OHCI), previously known as MEDICHEM

Name of Chair:

Murray Coombs

Year of Appointment:

2018

Email address:

mcoombs@iafrica.com

Name of Secretary:

Adriaan Combrinck

Year of Appointment:

2019

Email address:

acombrinck2@gmail.com

SC Website URL (if available):

<https://www.medicchem.org/>

Other SC Means of Communication:

Newsletter twice a year, LinkedIn (<https://www.linkedin.com/groups/8539822/>),

Board meeting and General Assembly at the annual conference

Focus and aim of the SC:

The focus and aim of the ICOH Scientific Committee on Occupational Health in the Chemical Industry (SC OHCI) is occupational health in the chemical sector where the sector is defined as chemistry - complete value chain from R&D to consumer to destruction (cradle to grave), chemical industry – stakeholders - employers, employees/unions, civil society, government and NGOs – environmental, academic and professional organisations), as it pertains to the chemical sector’s risk and benefits to society and the opportunity to collaborate.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** *Do not repeat meetings and conferences already listed in this format in the Midterm Report***1) Business meeting:** Chair and MEDICHEM ExCo meeting

Venue: OCCUCON 2020, Nehru Centre, Mumbai, India

Date: Feb 2020

Number of attendees: 5

*Discussion around collaboration with MEDICHEM and the Indian Association of Occupational Health (IAOH)***2) Business meeting:** Special Session introduction to SC OHCI and MEDICHEM

Venue: OCCUCON 2020, Nehru Centre, Mumbai, India

Date: Feb 2020

Number of attendees: 32

*Special Session on MEDICHEM and ICOH SC OHCI for new physicians in chemical the industry, sponsored by Reliance Industries***3) Business meeting:** SC OHCI Midterm reports (Chair and Secretary)

Venue: Pretoria, South Africa

Date: April 2020

Number of attendees: 2

*Finalized responses from members and completed Midterm reports***4) Business meeting:** MEDICHEM Board meeting (SC OHCI Chair and Secretary are co-opted members of the MEDICHEM Board)

Venue: Virtual - MS Teams meeting

Date: August 2020

Number of attendees: 12

*Discussion around SC member and MEDICHEM responses to the SC OHCI and MEDICHEM governance changes. Agreed to continue collaboration and scheduled webinars.***5) Business meeting:** Annual Exco meeting SC OHCI

Venue: Pretoria, South Africa

Date: November 2020

Number of attendees: 2

Reviewed activities as per workplan, agreed that due to COVID changes were needed, confirmed participation with MEDICHEM at the upcoming ICOH2022 Congress

6) Business meeting: SC OHCI and MEDICHEM ExCo meeting

Venue: Virtual - MS Teams meeting

Date: April 2021

Number of attendees: 6

Webinar collaboration with MEDICHEM EDT (Education, Development and Training Group), proposal for ICOH2022 Congress and preparations for MEDICHEM Board meeting in October 2022

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The International Conclave on Occupational Health (OCCUCON 2020) – Mumbai, India – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	January 28 – February 1, 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	Indian Association of Occupational Health (IAOH)				
Co-organizers and Collaborators: Please identify and describe roles.	<ul style="list-style-type: none"> • Eight ICOH Scientific Committees • MEDICHEM 				
Number of participants:	MEDICHEM and SC OHCI attracted around 50 participants				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:	Internet and various publications				
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:	Very successful, future collaboration expected				

(2) Name of the event:	MEDICHEM Board meeting webinar				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	August 2020				
Venue:	Virtual - MS Teams				
Organizers:	MEDICHEM Board				
Co-organizers and Collaborators: Please identify and describe roles.	Secretariat of the South African Society of Occupational Medicine (SASOM)				
Number of participants:	12				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:	Successful, framework for collaboration identified and agreed to.				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

- SC OHCI Constitution completed and available to support future activities and governance. Submitted to the VP of Scientific Committees.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

- As detailed above at the OCCUCON 2020 - IAOH and eight ICOH Scientific Committees

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

- MEDICHEM and SASOM as ICOH affiliate members in close collaboration.
- SOM, ACOEM and IAOH collaboration on ‘Sustainability in the Chemical Sector’

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- Special Session proposal submitted and accepted by the Congress Organisers – SS 22 - ‘Responsible Care and Corporate Citizenship’

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- SC OHCI – six-monthly business meetings
- MEDICHEM webinars - quarterly
- MEDICHEM 50th Anniversary Congress in September 2022 in Dresden, Germany with SC OHCI participation
- IAOH - February 2023
- IAOH - February 2024
- ICOH2024 Congress

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- SC on Occupational Toxicology (SC OT) - Biological Monitoring
- SC on Mining Occupational Safety and Health (SC MinOSH)
- SC on the Toxicology of Metals (SC TM)

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

IAOH - February 2023-2024

ACOEM - April 2022-2024

SOM - June 2022-2024

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

- Guide to Occupational Health in the Chemical Sector – webinar and e-publication
- Guide to Sustainability – webinar and e-publication

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The impact of the SC OHCI has been limited globally and somewhat attached to the success of the continued relationship with MEDICHEM. During COVID pandemic the postponed planned congresses and meetings and lack of a webinar platform limited interaction, however the newsletters (both MEDICHEM and ICOH), LinkedIn and ICOH/MEDICHEM activities ensured good communication of our future approach – towards a more inclusive SC within the Chemical Sector with a clear vision of supporting Sustainability and the SDGs within the Chemical Sector. Notwithstanding keeping our prime objective as for MEDICHEM - *international co-operation in those occupational and environmental health issues related to the production and use of chemicals that are of universal concern, which are most effectively resolved through a globally co-ordinated approach.*

Members have remained around 40 with a few not in good standing (mainly retirees). With the focus on sustainability (with MEDICHEM and their activities) as a theme for the next few years and seeking collaboration with ICOH, ICCA, WHO and ILO in this regard – publishing a position paper, we should again become more globally active.

In addition, the development of a training and development platform with MEDICHEM (EDT - Education, Development and Training Group) will allow for webinars, guides and fact sheets on the Chemical Sector, for members.

Seeking active collaboration with other SCs in the Chemical Sector as well as occupational disease related to chemical exposure will enhance a more global approach.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Title	First Name	Last Name	E-mail
	MEDICHEM		maren.beth-huebner@bgrci.de
Dr.	Elizabeth	BARBA ORTEGA	ebarba2312@yahoo.com
Dr.	Denis	BARNABY	barnaby.d@pg.com
Dr.	Peter	BOOGAARD	peter.boogaard@shell.com
Dr.	William Bernice	BUNN	wbbunn@gmail.com
Dr.	Adriaan	COMBRINCK	acombrinck2@gmail.com

Dr.	William Murray	COOMBS	mcoombs@iafrica.com
Dr.	Gleb	CSIGIRINSZKIJ	gleb.csigirinszkij@monsanto.com
Dr.	Rupali	DAS	rupali@flash.net
Dr.	José Jesus	FRANCIA ROMERO	jjfrancia@gmail.com
Dr.	Reynaldo Eduardo	FRANCO NUNEZ	eddu_franco@hotmail.com
Mr.	Jorge Mario	GALLEGO PEREZ	jorana@une.net.co
Dr.	Raul Jesus	GOMERO	raul.gomero.c@gmail.com
Dr.	Steffen Heinz	HITZEROTH	hitzeroth.s@gloth-consulting.com
Dr.	Hilko Walter	JOHANNSMIEIER	hilko.johannsmeier@sasol.com
Dr.	Koichi	KONO	hyg007@art.osaka-med.ac.jp
Dr.	Andre Barry	KOTZE	kotzea@ael.co.za
Dr.	Hemant	KSHIRSAGAR	hemantkshirsagar@yahoo.co.in
Dr.	Philippe	LANDTMETERS	philippe.landtmeters@mensura.be
Prof.	Karolina Dosheva	LYUBOMIROVA	carol_lub@abv.bg
Dr.	Ashish	MISHRA	DrAshish.Mishra@Unilever.com
Dr.	Vedat	MIZRAHI	drvedatmizrahi@gmail.com
Dr.	Jorge Alberto	MORALES CAMINO	morales.ja@pg.com
Prof.	Kenneth A.	MUNDT	kmundt260@gmail.com
Dr.	Michael	NASTERLACK	nasterlack@arcor.de
Mr.	Tawanda	NHERERA	tnherera@gmail.com
Dr.	Haruka	ODOI	h-odoi@med.uoeh-u.ac.jp
Dr.	Abed Bin	ONN	abo47@yahoo.com; abed@pc.jaring.my
Dr.	Robert	ORFORD	robert.orford@mch-ouc.co.uk
Dr.	Nguyen Ha	PHAM	phamnguyenha05@yahoo.com
Dr.	Tevfik	PINAR	tevfikpinar@gmail.com
Dr.	Thirumalai	RAJGOPAL	thirumalairajgopal@gmail.com
Dr.	Divyang	SHAH	divyangas@gmail.com
Dr.	Shrinivas Murlidhar	SHANBHAG	Shanbhag.shanu@gmail.com
Dr.	Sandeep	SHARMA	sandeeparul@rediffmail.com
Dr.	Peter Arun	THAKURDAS	PeterThak@Gmail.com
Ms	Maria Luisa	TUPIA GONZALES	marutupia@gmail.com
Dr.	Edwin A.	WHITESIDE	tcemedspecialists@gmail.com
Dr.	Leslie M.	YEE	yee.lmy@gmail.com

Members who left the SC since the submission of the SC Midterm Report:

Members who are not in good standing are potential losses

Name:

Email address:



**ICOH 2018-2021 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 - February 2022**

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The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

1 December 2021

Submitted by SC:

Occupational Health in the Construction
Industry

Name of Chair:

Dr Krishna Nirmalya Sen

Year of Appointment:

2018

Email address:

krishnanirmalya@gmail.com or
KNSEN@Intecc.com

Name of Secretary:

Dr Alberto J. Caban Martinez

Year of Appointment:

2018

Email address:

acaban@miami.edu

SC Website URL (if available):

www.scohi.org

Other SC Means of Communication:

E-mail

Focus and aim of the SC:

To promote Occupational Health and Safety in the Construction Industry

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – March 2021***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:**

Venue: OCCUCON 2020 – Nehru Centre, Mumbai, India

Date: 29 January 2020

Number of attendees: Two

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): Meeting adjourned due to poor participation**Conferences, Seminars, Workshops, Courses, etc.:**

(1) Name of the event:	The International Conclave on Occupational Health (OCCUCON 2020) – Mumbai, India – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch				
Type of event (please check):	Conference	Webinar	Workshop	Course	Other
	✓				
Date:	January 28 – February 1, 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	Indian Association of Occupational Health (IAOH)				
Co-organizers and Collaborators: Please identify and describe roles.	Eight ICOH Scientific Committees including the SC on Occupational Health in the Construction Industry				
Number of participants:	300+				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:	Yes				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	Yes				
Assessment of success / impact:					

(2) Name of the event:	Workshop on Ergonomic Assessment of Construction Tasks (at OCCUCON 2020)				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	30 January 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	ICOH Scientific Committee on Occupational Health in the Construction Industry				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	25				
Publication or provision of CD/DVD proceedings:	Technical content published as <i>youtube</i> video				
Book of abstracts:	No				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:					

(3) Name of the event:	8 th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	27 June 2020				
Venue:	Digital platform				
Organizers:	American Society of Safety Professionals (ASSP) – India Chapter				
Co-organizers and Collaborators: Please identify and describe roles.	<ul style="list-style-type: none"> • National Institute of Industrial Engineering (NITIE) • Scientific Committees on Occupational Health in the Construction Industry and Rural Health 				

Number of participants:	150
Publication or provision of CD/DVD proceedings:	
Book of abstracts:	Yes
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success / impact:	

(4) Name of the event:	Virtual Symposium on 'Recent Trends in Occupational Health and Safety in the Construction Industry'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Symposium
Date:	11 December 2020				
Venue:	Digital platform				
Organizers:	ICOH Scientific Committee on Occupational Health in the Construction Industry				
Co-organizers and Collaborators: Please identify and describe roles.	American Society of Safety Professionals (ASSP) – India Chapter				
Number of participants:	300 Registered				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:	No				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:					

(5) Name of the event:	4 th International and 22 nd Turkish National Congress on Public Health				
Type of event (please check):	Conference ✓	Seminar	Workshop	Course	Other
Date:	17 December 2020				
Venue:	Digital Platform				
Organizers:	Association of Public Health Specialists (HASUDER)				
Co-organizers and Collaborators: Please identify and describe roles.	The Chair of the SC on Occupational Health in the Construction Industry, Dr Krishna Nirmalya Sen, gave a presentation at the conference.				
Number of participants:					
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:					

(6) Name of the event:	9 th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH'				
Type of event (please check):	Conference ✓	Seminar	Workshop	Course	Other
Date:	28 - 29 April 2021				
Venue:	Digital platform				
Organizers:	American Society of Safety Professionals (ASSP) – India Chapter				
Co-organizers and Collaborators: Please	<ul style="list-style-type: none"> • University of Calcutta • Four ICOH Scientific Committees including SC on Occupational Health in the Construction Industry 				

identify and describe roles.	
Number of participants:	120
Publication or provision of CD/DVD proceedings:	
Book of abstracts:	Yes
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success / impact:	

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – March 2021

***NOTE:** Please do not repeat information already provided in the Midterm Report.*

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. * Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2021 Congress and for the next Triennium 2021-2024

Planned Scientific Contributions to the ICOH2021 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- Special Session – SS 23 - ‘Occupational Health in the Construction Industry’
- Free Paper Session

Triennium 2021-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- Next business meeting planned for January 2022

Triennium 2021-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Triennium 2021-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- Collaboration with ASSP - India Chapter, for their 10th Professional Development Conference to be held at NICMAR, Hyderabad, India

Triennium 2021-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The SC on Occupational Health in the Construction Industry attempted to enhance its reach and improve working conditions of people in the construction industry through various scientific activities.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Title	First Name	Last Name	E-mail
	STICHTING ARBOUW		vanduivenbooden@arbouw.nl
Dr.	Adriana Jardim	ARIAS PEREIRA	ajarias@gmail.com
Dr.	Vidya Kiran	BHAT	drvidyakiran@gmail.com
Dr.	Catherine	BONNIN	bonnin@apst.fr
Dr.	Jean-François	BOULAT	boulat@apst.fr
Dr.	Alberto	CABAN-MARTINEZ	acaban@med.miami.edu
Dr.	Jean Francois	CANONNE	jeanfrancoiscanonne@yahoo.fr
Dr.	Jose C.D.	CARNEIRO	jccarneiro@esame.com.br
Mr.	Cesar	CHAVEZ	cesarchavez966@hotmail.com
Dr.	Cansu	DEMIRTURK	cansudemirturk@gmail.com
Mr.	Kelvin	DICK	dickelvin9@yahoo.com
Dr.	Johnny	DYREBORG	jdy@nrcwe.dk
Dr.	Felix Enrique	ECHEVARRIA REYMER	felixehevarria@conalvias.com

Prof.	Monique	FRINGS-DRESEN	m.frings@amc.uva.nl
Dr.	Somnath	GANGOPADHYAY	ganguly1961@gmail.com
Dr.	Gabriel Felipe	GERARD	drgerardgabriel@yahoo.com.ar
Dr.	Tirthankar	GHOSH	tirthag@gmail.com
Dr.	Vanessa	GOVENDER	vanessa@masakhanehealth.co.za
Prof.	Bernd	HARTMANN	HartmannBernd_Hamburg@web.de
Dr.	Peter	HOONAKKER	phoonakker@cqi.engr.wisc.edu
Dr.	Marilyn joy	HUBNER	buildupresearch@gmail.com
Dr.	Peter	KINES	pki@nrcwe.dk
Dr.	Claudie	LEBAUPAIN	lebaupain@apst.fr
Mr.	Rufino Jr, Salcedo	MEDADO	Rufino.Medado@greatarrowbuilders.com
Dr.	James	MELIUS	melius@nysliuna.org
Dr.	Kim Lyngby	MIKKELSEN	kim.lyngby@gmail.com
Dr.	Alex	MORALES	amorales@mutual.cl
Mr.	Hassan Hussein	MRISHO	hmrisho@maktech.co.tz
Mr.	Patrick	NDJOM	patrickndjom@gmail.com
Dr.	Marco	NUNEZ	manudoc.2000@gmail.com
Mr.	Gregory Oyakhire	OMOIKE	gregomo2002@yahoo.com
Mr.	Joshua	OYANGE	Joshua.Oyange@sc.com
Dr.	Nguyen Ha	PHAM	phamnguyenha05@yahoo.com
Mr.	Eero	PRIHA	
Dr.	Knut	RINGEN	knutringen@msn.com
Dr.	Romuald Amitz	RWAMAMARA	rorw@ltu.se Romuald.Rwamamara@ltu.se
Mr.	Krishna Nirmalya	SEN	krishnanirmalya@gmail.com
Prof.	Nayab M.	SULTAN	nmsultan@gmail.com
Dr.	Laura Stewart	WELCH	lwelch@cpwr.com
Mr.	Christian	YALA	christian.yala2@gmail.com

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:

None



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

9 November 2021

Submitted by SC:

Radiation and Work (SC RW)

Name of Chair:

Marc Wittlich

Year of Appointment:

2018

Email address:

marc.wittlich@dguv.de

Contact Information:

Head of Department - Accident Prevention: Digitalisation - Technologies

Institute for Occupational Safety and Health of the German Social Accident Insurance

Deutsche Gesetzliche Unfallversicherung e.V. (DGUV)

Alte Heerstr. 111, 53757 Sankt Augustin, Germany

Telephone: +49 30 13001-3500

Name of Secretary:

Alberto Modenese

Year of Appointment:

2018

Email address:

alberto.modenese@unimore.it

Contact Information:

MD – Occupational Physician, PhD in Clinical and Experimental Medicine

Department of Biomedical, Metabolic and Neural Sciences

University of Modena & Reggio Emilia

Via Campi 287 - 41125 Modena (Italy)

Telephone: +39 059 205 5475

SC Website URL (if available):

<http://www.grelf.unimore.it/>

Other SC Means of Communication:

Mailing list of the members

Focus and aim of the SC:

The main aim of the Scientific Committee on Radiation and Work of the ICOH is to stimulate an international exchange of experiences on research programmes, methodology and practice in the field of:

- Exposure of workers to Ionizing Radiation (IR) and Non-Ionizing Radiation (NIR), including Electromagnetic Fields (EMF) and Optical Radiation (OR)
- The prevention of exposure and health promotion of exposed workers

The activities of the Scientific Committee on Radiation and Work are intended to provide a unique multidisciplinary and interdisciplinary network for sharing knowledge and advancements in the general field of occupational and environmental exposure of workers to IR and NIR, on adverse health effects, methodology and legislation, and any other topic of interest in the general field of protection and health promotion of IR- and NIR-exposed workers.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Online

Date: 15 June 2021

Number of attendees: 9

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): 24 October 2021

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	2020 IEEE - International Conference on Environment and Electrical Engineering and 2020 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe)				
Type of event (please check):	Conference ✓	Seminar	Workshop	Course	Other
Date:	9 – 12 June 2020				
Venue:	Online (from Madrid, Spain)				
Organizers:	IEEE				

Co-organizers and Collaborators : Please identify and describe roles.	Our SC collaborated in particular in the realization of Session 5 – ‘New Technologies for Safety in Working Environments’ held on Thursday 11 June 2020 from 11.30 am to 1.30 pm with contributions on the evaluation of occupational solar UV exposure in outdoor workers and on the indications for the prevention of the occupational risk related to non-ionizing radiation exposure.
Number of participants:	20 (NB: In the session)
Publication or provision of CD/DVD proceedings:	No
Book of abstracts:	Yes
Book of selected proceedings:	Yes
Special issue of peer reviewed journals:	https://www.mdpi.com/journal/energies/special_issues/EEEIC_2020 https://astesj.com/v06/i01/p150/ https://astesj.com/v06/i01/p159/
Assessment of success / impact:	Interest of the participants in the session asking information for the prevention of the occupational risk related to NIR exposure. Publication of the proceedings as extended abstract and full publications of papers related to the work presented in the conference in open-access peer-reviewed journals.

(2) Name of the event:	Annual 2020 and 2021 Management Committee Meeting of the European COST Action ‘CA16216’ OMEGA-NET - Network on the Coordination and Harmonisation of European Occupational Cohorts and an online webinar on ‘Occupational Skin Diseases’				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				✓ Webinar
Date:	Conferences: 21-22 October 2020; 20-21 October 2021 Webinar: 16 March 2021				
Venue:	Online				
Organizers:	EU-COST Action CA 16216				

Co-organizers and Collaborators: Please identify and describe roles.	/
Number of participants:	>100
Publication or provision of CD/DVD proceedings:	/
Book of abstracts:	/
Book of selected proceedings:	http://omeganetcohorts.eu/
Special issue of peer reviewed journals:	/
Assessment of success / impact:	<p>Several occupational experts interested in radiation risk prevention participated in the meetings.</p> <p>The ICOH SC on Radiation and Work contributed in particular to the activities of 'Working Group 3' aimed at developing standardised protocols for future occupational exposure and health outcome information. The ICOH SC on Radiation and Work is involved with ICOH SC on Occupational and Environmental Dermatoses in Task 3.4 'Occupational Skin Diseases'. Joint initiatives and proposed publications were planned during the meeting. A protocol for a systematic review on sun-safety interventions for the prevention of UV-related occupational skin cancers has been registered on PROSPERO and submitted for publication in the journal 'Frontiers in Public Health'.</p>

(3) Name of the event:	Follow-up Workshop 2 of the Multi-Stakeholder Summit on Occupational Skin Cancer				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		✓ Summit
Date:	12 October 2020				
Venue:	Online				
Organizers:	European Academy of Dermatology and Venereology (EADV) and European Cancer Patients Coalition				
Co-organizers and Collaborators:	ICOH Scientific Committees on Occupational and Environmental Dermatoses and Radiation and Work				

Please identify and describe roles.	
Number of participants:	30
Publication or provision of CD/DVD proceedings:	/
Book of abstracts:	/
Book of selected proceedings:	https://ecpc.org/wp-content/uploads/2020/10/OSC-Multi-Stakeholder-Meeting_Action-brief_FINAL.pdf
Special issue of peer reviewed journals:	/
Assessment of success / impact:	The Multi-Stakeholder Summit on Occupational Skin Cancer (OSC) by solar UV radiation (UVR) at the workplace brought together more than 30 participants from across the world, representing patient advocacy groups, workers unions, occupational safety and health professionals, social security representatives, dermatologists, and oncologists.

(4) Name of the event:	International Advisory Committee Meeting on Non-Ionizing Radiation - 2020 and 2021 Meetings of the UV Programme and of the International EMF Project				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		✓ Meeting
Date:	29 June -1 July 2020 and 8-10 June 2021				
Venue:	Online				
Organizers:	World Health Organization, Radiation Programme				
Co-organizers and Collaborators: Please identify and describe roles.	The ICOH SC on Radiation and Work participated with experts on occupational optical radiation and EMF exposure				
Number of participants:	100				
Publication or provision of CD/DVD proceedings:	/				
Book of abstracts:	/				
Book of selected proceedings:	Online publication of the presentations available via e-mail to the participants of the workshop				

Special issue of peer reviewed journals:	/
Assessment of success / impact:	About 100 experts in non-ionizing radiation exposure, health effects and prevention with different backgrounds and representing many countries took part in the discussion, with the coordination of the World Health Organization (WHO). The SC on Radiation and Work's input was important in particular for the topic of occupational exposure and preventive strategies to be applied in workplaces.

(5) Name of the event:	Solar UV Radiation Issues				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	19 October 2020				
Venue:	Online				
Organizers:	ICOH Scientific Committee on Radiation and Work				
Co-organizers and Collaborators: Please identify and describe roles.	ICOH SC on Occupational and Environmental Dermatoses (OED)				
Number of participants:	40				
Publication or provision of CD/DVD proceedings:	/				
Book of abstracts:	/				
Book of selected proceedings:	Online publication of the presentations available via e-mail for the participants of the workshop				
Special issue of peer reviewed journals:	/				
Assessment of success / impact:	During the meeting the activities of the ICOH SC on Radiation and Work together with the SC on Occupational and Environmental Dermatoses for the prevention of the risk related to occupational solar UVR exposure were presented. Several experts from all over the world have joined the presentations and the discussion.				

(6) Name of the event:	5 th International UV and Skin Cancer Prevention Conference				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				

Date:	7 – 9 September 2021
Venue:	Online
Organizers:	EUROSKIN team
Co-organizers and Collaborators: Please identify and describe roles.	ICOH SC on Occupational and Environmental Dermatoses (OED)
Number of participants:	>100
Publication or provision of CD/DVD proceedings:	/
Book of abstracts:	/
Book of selected proceedings:	https://uvandskincancer2020.org/programme
Special issue of peer reviewed journals:	/
Assessment of success / impact:	<p>The organisation of a workshop within the conference on 'Occupational Skin Cancer & UV Protection at the Workplace' with eleven international experts presenting and discussing the most recent research for the prevention of solar UV-related occupational skin cancer</p> <p>https://uvandskincancer2020.org/assets/downloads/Workshop_1_agenda.pdf</p>

(7) Name of the event:	XXII World Congress on Safety and Health at Work					
Type of event (please check):	Conference	Seminar	Workshop	Course	Other	
	✓					
Date:	20-23 September 2021					
Venue:	Online					
Organizers:	• International Social Security Association (ISSA)					

	<ul style="list-style-type: none"> • International Labour Organization (ILO)
Co-organizers and Collaborators: Please identify and describe roles.	<ul style="list-style-type: none"> • Institute for Work and Health (IWH) • Canadian Centre for Occupational Health and Safety (CCOHS)
Number of participants:	>200
Publication or provision of CD/DVD proceedings:	/
Book of abstracts:	/
Book of selected proceedings:	https://www.safety2021canada.com/
Special issue of peer reviewed journals:	/
Assessment of success / impact:	The participation in this important World Congress with a high number of participants from all over the world was an occasion for the ICOH SC on Radiation and Work to start the development of further OSH prevention activities related to the occupational radiation exposure risk, in collaboration with ISSA and ILO.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

***NOTE:** Please do not repeat information already provided in the Midterm Report.*

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

1) Strehl C, Heepenstrick T, Knuschke P, Wittlich M. Bringing Light into Darkness-Comparison of Different Personal Dosimeters for Assessment of Solar Ultraviolet Exposure. Int J Environ Res Public Health. 2021 Aug 27;18(17):9071. doi: 10.3390/ijerph18179071.

2) Butacu AI, Wittlich M, John SM, Zurac S, Dascalu M, Moldovan H, Tiplica GS. Is Occupational Skin Cancer More Aggressive than Sporadic Skin Cancer? Maedica (Bucur). 2020 Jun;15(2):155-161. doi: 10.26574/maedica.2020.15.2.155.

3) Bauer A, Haufe E, Heinrich L, Seidler A, Schulze HJ, Elsner P, Drexler H, Letzel S, John SM, Fartasch M, Brüning T, Dugas-Breit S, Gina M, Weistenhöfer W, Bachmann K, Bruhn I, Lang BM, Brans R, Allam JP, Grobe W, Westerhausen S, Knuschke P, Wittlich M, Diepgen TL, Schmitt J; FB181 study group. Basal cell carcinoma risk and solar UV exposure in

occupationally relevant anatomic sites: do histological subtype, tumor localization and Fitzpatrick phototype play a role? A population-based case-control study. *J Occup Med Toxicol*. 2020 Sep 10;15:28. doi: 10.1186/s12995-020-00279-8.

4) Baczynska KA, Brown S, Chorley AC, O'Hagan JB, Khazova M, Lyachev A, Wittlich M. In-Flight UV-A Exposure of Commercial Airline Pilots. *Aerosp Med Hum Perform*. 2020 Jun 1;91(6):501-510. doi: 10.3357/AMHP.5507.2020.

5) Kovačić J, Wittlich M, John SM, Macan J. Personal ultraviolet radiation dosimetry and its relationship with environmental data: A longitudinal pilot study in Croatian construction workers. *J Photochem Photobiol B*. 2020 Jun;207:111866. doi: 10.1016/j.jphotobiol.2020.111866.

6) Wittlich M, John SM, Tiplica GS, Sălăvăstru CM, Butacu AI, Modenese A, Paolucci V, D'Hauw G, Gobba F, Sartorelli P, Macan J, Kovačić J, Grandahl K, Moldovan H. Personal solar ultraviolet radiation dosimetry in an occupational setting across Europe. *J Eur Acad Dermatol Venereol*. 2020 Aug;34(8):1835-1841. doi: 10.1111/jdv.16303.

7) Moldovan HR, Wittlich M, John SM, Brans R, Tiplica GS, Salavastru C, Voidazan ST, Duca RC, Fugulyan E, Horvath G, Alexa A, Butacu AI. Exposure to solar UV radiation in outdoor construction workers using personal dosimetry. *Environ Res*. 2020 Feb;181:108967. doi: 10.1016/j.envres.2019.108967.

8) Hartwig V, Virgili G, Mattei FE, Biagini C, Romeo S, Zeni O, Scarfi MR, Massa R, Campanella F, Landini L, Gobba F, Modenese A, Giovannetti G. Occupational exposure to electromagnetic fields in magnetic resonance environment: an update on regulation, exposure assessment techniques, health risk evaluation, and surveillance. *Med Biol Eng Comput*. 2021 Sep 29. doi: 10.1007/s11517-021-02435-6.

9) Ferrari G, Ferrari AM, Campobasso D, Modenese A, Rijo E, Misrai V, Rosa R, Cindolo L. Environmental Safety of the 180-W GreenLight Laser: A Pilot Study on Plume and Irrigating Fluids. *Urology*. 2021 Aug;154:227-232. doi: 10.1016/j.urology.2021.03.016.

10) Modenese A, Gobba F. Occupational Exposure to Electromagnetic Fields and Health Surveillance According to the European Directive 2013/35/EU. *Int J Environ Res Public Health*. 2021 Feb 10;18(4):1730. doi: 10.3390/ijerph18041730.

11) Modenese A, Loney T, Ruggieri FP, Tornese L, Gobba F. Sun protection habits and behaviors of a group of outdoor workers and students from the agricultural and construction sectors in north-Italy. *Med Lav*. 2020 Apr 30;111(2):116-125. doi: 10.23749/mdl.v111i2.8929.

12) Della Vecchia E, Modenese A, Loney T, Muscatello M, Silva Paulo M, Rossi G, Gobba F. Risk of cataract in health care workers exposed to ionizing radiation: a systematic review. *Med Lav*. 2020 Aug 31;111(4):269-284. doi: 10.23749/mdl.v111i4.9045.

13) Loney T, Paulo MS, Modenese A, Gobba F, Tenkate T, Whiteman DC, Green AC, John SM. Global evidence on occupational sun exposure and keratinocyte cancers: a systematic review. *Br J Dermatol*. 2021 Feb;184(2):208-218. doi: 10.1111/bjd.19152.

14) Modenese A, Ruggieri FP, Bisegna F, Borra M, Burattini C, Della Vecchia E, Grandi C, Grasso A, Gugliermetti L, Manini M, Militello A, Gobba F. Occupational Exposure to Solar UV Radiation of a Group of Fishermen Working in the Italian North Adriatic Sea. *Int J Environ Res Public Health*. 2019 Aug 20;16(16):3001. doi: 10.3390/ijerph16163001.

15) Modenese, A.; Gobba, F.; Paolucci, V.; John, S.M.; Sartorelli, P.; Wittlich, M. A One-Month Monitoring of Exposure to Solar UV Radiation of a Group of Construction Workers in Tuscany. *Energies* 2020, 13, 6035. <https://doi.org/10.3390/en13226035>

16) Alberto Modenese, Fabio Bisegna, Massimo Borra, Giulia Bravo, Chiara Burattini, Anna Grasso, Luca Gugliermetti, Francesca Larese Filon, Andrea Militello, Francesco Pio Ruggieri, Fabriziomaria Gobba. Evaluation of Personal Solar UV Exposure in a Group of Italian Dockworkers and Fishermen, and Assessment of Changes in Sun Protection Behaviours After a Sun-Safety Training. *Adv. Sci. Technol. Eng. Syst. J.* 6(1), 1312-1318 (2021); DOI: 10.25046/aj0601150

17) Modenese A, Gobba F. Exposure to Optical Radiation and Electromagnetic Fields at the Workplace: Criteria for Occupational Health Surveillance According to Current European Legislation. *Adv. Sci. Technol. Eng. Syst. J.* 6(1), 1403-1413 (2021); DOI: 10.25046/aj0601159

18) Bravo Giulia, Modenese Alberto, Arcangeli Giulio, Bertoldi Chiara, Camisa Vincenzo, Corona Gianluca, Giglioli Senio, Ligabue Guido, Moccaldi Roberto, Mucci Nicola, Muscatello Martina, Venturelli Irene, Vimercati Luigi, Zaffina Salvatore, Zanotti Giulio, Gobba Fabriziomaria. Subjective Symptoms in Magnetic Resonance Imaging Personnel: A Multi-Center Study in Italy. *Frontiers in Public Health*, 2021, 9:1394. DOI=10.3389/fpubh.2021.699675

19) Marc Wittlich. Criteria for Occupational Medical Prophylaxis for solar UVR exposed outdoor workers Prevalence, Affected Parties, and Occupational Disease. *Submitted to Frontiers in Public Health on 07/09/2021*.

20) Alberto Modenese, Tom Loney, Marc Rocholl, Cara Symanzik, Fabriziomaria Gobba, Swen Malte John, Kurt Straif, Marília Silva Paulo. Protocol for a systematic review on the effectiveness of interventions to reduce exposure to occupational solar ultraviolet radiation (UVR) among outdoor workers. *Submitted to Frontiers in Public Health on 10/08/2021*.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

- Collaboration with the ICOH SC on Occupational and Environmental Dermatoses (OED): Joint Special Session to be organised at the upcoming 33rd ICOH Congress (ICOH2022). Collaboration with this SC within a working group of the EU-COST Action OMEGA-NET, and with joint preventive initiative held at international dermatology conferences (e.g. 5th International UV & Skin Cancer Prevention Conference, 7-9 September 2021) as well as at multi-stakeholder meetings.

- We are looking forward to participating in the 28th International Symposium on Epidemiology in Occupational Health (EPICOH) – ‘From the Workplace to the Population: Exposure and Prevention’ organised for 25 - 28 October 2021 by the ICOH SC on EPICOH.
- Collaboration with representatives of various ICOH SCs, such as ‘Emergency Preparedness and Response in Occupational Health’, ‘Effectiveness in Occupational Health Services’ (EOHS) and ‘OH and Development’, to develop scientific activities in the framework of international projects such as the European COST Action ‘OMEGA-NET’, the systematic reviews project serving the joint WHO/ILO methodology for the global estimates of occupational diseases
- (<https://www.who.int/publications/i/item/9789240034945>) and the HORIZON 2020 ‘Exposome Project for Health and Occupational Research’ (EPHOR) project (<https://www.ephor-project.eu/>).

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- Participation of the ICOH SC on Radiation and Work in the annual International Advisory Committee (IAC) meetings on non-ionizing radiation organised by WHO, Radiation Programme. Meetings occur every year, with participation of about 100 experts from all over the world in the field of NIR (exposure evaluation, health risk assessment, prevention). Details on the latest 2020 and 2021 IAC meetings are in the list above.
- Participation of members of the ICOH SC on Radiation and Work in the joint project of the WHO and the ILO aimed to perform systematic reviews on the prevalence of occupational solar UV exposure and cataract and skin cancers for serving a new ‘WHO/ILO joint methodology for estimating the work-related burden of diseases and injuries’. The first joint estimates for the assessment of the burden of occupational diseases due to specific risk factors have been officially presented in 2021 by the two organisations (solar UV radiation related estimates are still under evaluation): <https://www.who.int/teams/environment-climate-change-and-health/monitoring/who-ilo-joint-estimates>
- Participation in the scientific works of the ‘XXII World Congress on Safety and Health at Work’ co-organised by the ILO on 20-23 September 2021 and publication of the scientific contributions sent by members of the SC on Radiation and Work in the conference proceedings.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

- ICOH SC on Radiation and Work is collaborating with the German Institutes of Social Accident Insurance (DGUV) and its research institute IFA and the European Academy of Dermatologists and Venerologists for the performance of UV exposure measurements in outdoor workers according to the methodology developed with the GENESIS-UV project, and dissemination of the results of the research.
- Italian members of the ICOH SC on Radiation and Work are actively participating in the activities of the Italian Association on Medical Radioprotection (AIRM, <https://airm.name/>) and of the Italian Society of Occupational Medicine (SIML, <http://www.simlii.it/>), with scientific presentations related to the topic of the prevention of occupational EMF and UV exposure risks at the annual national conferences of the two Associations, respectively held in Ragusa (Sicilia, Italy) 2-4 September 2021 and in Parma (Emilia-Romagna, Italy) 15-17 September 2021.
- ICOH SC on Radiation and Work is developing new collaborations with international associations, like the 'Information Systems Security Association' (ISSA) and the 'Australian Radiation Protection and Nuclear Safety Agency' (ARPANSA), and planning to organize new webinar and scientific initiatives on the prevention of the risk related to occupational radiation exposure, e.g.:
 - A webinar organised by the ICOH SC on Radiation and Work together with ISSA titled '5G at workplaces: Technical aspects and human exposure' on 24 November 2021
- The international conference 'EMANET 2021 for the environment and public health: Electromagnetic fields and their effects', 12-13 November 2021, organised online by the Istanbul Branch of the Chamber of Electrical Engineers, the Istanbul Chamber of Medicine and the Istanbul Bar Association.
- The 1st European EMF Forum Conference, 15-16 November 2021 in Dortmund (Germany), organised by the International Committee on Electromagnetic Safety.

Any other points of relevance:

No other points of relevance to be discussed

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- Organisation of a Special Session titled SS 26 - 'Prevention of the electromagnetic fields exposure risk in the workplaces and the issue of the workers at particular

risk'. *Speakers:* Carsten Altekoster, Ken Karipidis, Fabriziomaria Gobba, Alberto Modenese, Marc Wittlich

- Co-organisation with the SC on Occupational and Environmental Dermatoses of a Special Session titled SS 18 - 'Strategies to address the increasing burden of occupational skin cancer'.

Speakers: Marc Wittlich, Fabriziomaria Gobba/Alberto Modenese, Swen Malte John

- A Free Paper Session on the topic 'Radiation and Work' based on the abstracts submitted by congress participants and accepted after the peer review process.

Abstract reviewers: Fabriziomaria Gobba, Alberto Modenese, Marc Wittlich

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- Planned organisation of at least one scientific meeting with discussion of topics of interest for our SC (e.g. the new issue related to occupational exposure due to 5G technologies, possibly held by the end of 2022), and organisation of at least one business meeting.
- Planned participation of the SC in various conferences and workshops, e.g.:
 - The European Conference on Solar UV Monitoring and Personal UV Exposure (ECUVM 2022), planned for 22-25 February 2022 in Vienna, Austria
 - The 6th European International Radiation Protection Association (IRPA) Congress, Budapest, Hungary, 30 May – 3 June 2022, among others.
- Participation of the ICOH SC on Radiation and Work in the activities of the European COST Action 'CA16216' OMEGA-NET - Network on the Coordination and Harmonisation of European Occupational Cohorts, and in particular in the Activities of the Working Group 3 'Development of Standardised Protocols for Future Occupational Exposure and Health Outcome Information'. Participation in the meetings and webinars organised within the action. Publication of a systematic review on sun-safety interventions for the prevention of UV-related occupational skin cancers.
- Collaboration of members of the SC with various European universities and research institutes in occupational health within a working group of the HORIZON 2020 'Exposome Project for Health and Occupational Research' (EPHOR) project, including participation in the scientific meetings organised for the discussion of the project activities. The activities of the WG aim at developing a job exposure matrix for a detailed evaluation of cumulative occupational solar ultraviolet exposure.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- To continue the collaboration with the ICOH SC on Occupational and Environmental Dermatoses (OED), organising events and meetings on the common topic of the prevention of the risk related to solar UV exposure for the reduction of skin cancers' burden, such as the planned joint special session at the upcoming 33rd ICOH Congress.
- To continue the collaboration with the ICOH SC on EPICOH after the participation in the 28th International Symposium on Epidemiology in Occupational Health – 'From the Workplace to the Population: Exposure and Prevention', 25-28 October 2021, evaluating the possibility to send scientific contributions for other EPICOH conferences and congresses planned in 2022-2024.
- To continue the collaboration with representatives of various ICOH SCs, such as 'Emergency Preparedness and Response in Occupational Health', 'Effectiveness in Occupational Health Services' (EOHS) and 'Occupational Health and Development', for the development of various scientific activities in the framework of international projects such as the European COST Action 'OMEGA-NET', the systematic reviews project serving the joint WHO/ILO methodology for the global estimates of occupational diseases and the HORIZON 2020 'Exposome Project for Health and Occupational Research' (EPHOR) project.

Triennium 2022-2024 Planned collaborative activities with other (*non-ICOH*) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- Participation of the SC on Radiation and Work in the International Advisory Committee Meetings on Non-Ionizing Radiation organised annually by the WHO Radiation Programme, and planned in 2022, 2023 and 2024.
- Continue the collaboration of the SC on Radiation and Work in the joint project supported by the WHO and the ILO aimed to perform systematic reviews on the prevalence of occupational solar UV exposure and cataract and skin cancers for serving a new 'WHO/ILO Joint Methodology for estimating the work-related burden of diseases and injuries'.
- The SC on Radiation and Work is developing new collaborations with international associations, such as the 'Information Systems Security Association' (ISSA) and the 'Australian Radiation Protection and Nuclear Safety Agency' (ARPANSA), and planning to organize new webinar and scientific initiatives on the prevention of the risk related to occupational radiation exposure. The organisation of an online conference on the issue of '5G at workplaces: Technical aspects and human exposure' can be the first of a series of joint activities. The Assistant Director of ARPANSA will be a speaker in the Special Session and Free Paper Session organised by the SC at the upcoming ICOH2022 Congress.

- Planned collaboration with the German Social Accident Insurance DGUV and its research institute IFA and the European Academy of Dermatologists and Venerologists for the performance of UV exposure measurements in outdoor workers according to the methodology developed with the GENESIS-UV project and dissemination of the results of the research.
- Planned participation of the Italian members of the ICOH SC on Radiation and Work in the activities of the Italian Association of Medical Radioprotection (AIRM, <https://airm.name/>) and of the Italian Society of Occupational Medicine (SIML, <http://www.simlii.it/>), with scientific presentations related to the topic of the prevention of occupational EMF and UV exposure risks at the annual national conferences of the two Associations for the years 2022, 2023 and 2024. Collaboration with the two Associations for the training of occupational physicians on the topics of 'Radiation and Work'.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

(Provide proposed title, authors, timeframe, publication vehicle, if possible.

**Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Publication of the scientific contributions 'Occupational exposure levels of solar ultra violet radiation: An EPHOR review' and 'A systematic review on occupational exposure to radiofrequency electromagnetic fields and risk of cancer: Preliminary results from an Italian research project' presented at the 2021 EPICOH Conference in a supplement of the journal 'Occupational & Environmental Medicine' (OEM). A full publication of the work related to these conference contributions in peer-reviewed journals is planned.

Publication of the scientific contributions presented in the two Special Sessions and the Free Paper Session organised by the SC for the ICOH2002 Congress in an online supplement of the journal 'Safety and Health at Work' (SH@W).

Planned publication of a systematic review on sun-safety interventions for the prevention of UV-related occupational skin cancers and of a systematic review on the effects estimates of occupational solar UV exposure for the development of squamous cell carcinoma of the skin, performed within the activities of the SC on Radiation and Work in the framework of the European COST Action 'CA16216' OMEGA-NET (Working Group 3) and in collaboration with the ICOH SC on OED.

Any other points of relevance:

No other points of relevance to be discussed

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The activities of the ICOH SC on Radiation and Work in the field of non-ionizing radiation occupational exposure and prevention of the related adverse effects in workers have been widely recognised.

The SC has been invited to participate every year in the annual IAC meeting organised by the Radiation Programme of the WHO with more than one hundred multidisciplinary experts from all over the world, to discuss the most recent issues related to the topics of UV and EMF exposures.

Several members of the SC have been recruited during these years to participate in various international multidisciplinary research projects and scientific initiatives, such as: the above-mentioned WHO/ILO joint project for the estimate of the global burden of occupational diseases (and in particular solar UVR induced cataract and skin cancers, considering the topics of interest of the SC); the European COST Action 'OMEGA-NET' and in particular the activities of the task group for the prevention of occupational skin diseases; the HORIZON 2020 project 'Exposome Project for Health and Occupational Research' (EPHOR) within a working group developing a job exposure matrix for a detailed evaluation of cumulative occupational solar ultraviolet exposure.

The SC has organised two Special Sessions (one co-organised with the SC on OED) and one Free Paper Session at the upcoming ICOH2022 Congress - more than twenty speakers and 100 participants are planned to be involved in these sessions.

With the collaboration of the SC on Occupational and Environmental Dermatoses, the SC has developed and is still developing several preventive initiatives, also in collaboration with various dermatologic and oncologic associations, for a recognition of the problem of UV-induced occupational skin cancers, the stimulation of more adequate preventive policies and shared criteria for a better prevention.

Members of the SC are involved in a systematic review performed within the international project 'WHO assessment of health effects of exposure to radiofrequency electromagnetic fields'. Based on the recently published protocol titled 'The effect of exposure to radiofrequency fields on cancer risk in the general and working population: A protocol for a systematic review of human observational studies', this systematic review will present new important evidence of the problem of the possible carcinogenicity of occupational EMF exposure.

Also, the problem of occupational exposure to ionizing radiation has been addressed, in particular considering the issue of low dose exposure and the risk of cataract among health personnel (doi: 10.23749/mdl.v11i14.9045) and new collaborations are planned with ARPANSA and participation in the 6th European Congress on Radiation Protection organised by IRPA in 2022.

In conclusion, the members of the SC have developed, and they are still developing, several research activities related to the topic 'Radiation and Work', published in international peer-reviewed scientific journals, and they have participated in national and international research projects. The members of the SC also give an important contribution in their own countries, collaborating with scientific societies interested in the field of radiation and work, and public national organisations in the field of occupational risk prevention, and organising preventive campaigns, scientific events and other activities.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Title	First Name	Last Name	E-mail
Dr.	Adriana Jardim	ARIAS PEREIRA	ajarias@gmail.com
Prof.	Thomas J.	ARMSTRONG	tja@umich.edu
Dr.	Carita Agneta	ASCHAN	carita.aschan@ttl.fi
Dr.	Qingsong	CHEN	qingsongchen@yahoo.cn
Dr.	Robin A.F.	COX	rafcox@lineone.net
Dr.	Neil F.	DAVIES	neil.davies@british-energy.com
Dr.	Annamaria	DE LUCA	anna.deluca@rfi.it
Prof.	Giovanni	DE VITO	giovanni.devito@unimib.it
Dr.	Amer	DOBRACA	amerdobraca@gmail.com
Prof.	Johannes Lodewykus	DU PLESSIS	johan.duplessis@nwu.ac.za
Dr.	Ian Robert	GARDNER	iangard@bigpond.net.au
Prof.	Fabriziomaria	GOBBA	f.gobba@unimore.it
Dr.	Svein G	GRAHNSTEDT	svein@grahnstedt.md
Prof.	Irina	GUSEVA CANU	irinacanu@hotmail.com
Mr.	Kjell	HANSSON MILD	kjell.hansson.mild@radfys.umu.se
Prof.	Rudolf	HAUF	
Prof.	Maila	HIETANEN	maila.hietanen@ttl.fi
Dr.	Martti Juhani	HYVÖNEN	martti.hyvonen@fimnet.fi
Prof.	Swen M	JOHN	sjohn@uos.de
Dr.	Marcel	JOST	marcel.jost@suva.ch
Prof.	Bengt	KNAVE	bengt.knave@telia.com

Prof.	Leena	KORPINEN	leenakorpinen@gmail.com
Dr.	Nomonde Buyisiwe	MABUYA	molmab@iafrica.com
Mr.	Jawed Ahmed	MANGI	jawedmangi@yahoo.com
Dr.	Robert	McCUNNEY	mccunney@mit.edu
Ms	Camille	METZ FLAMANT	camille.metz@irsn.fr
Dr.	Alberto	MODENESE	albertomodene1@gmail.com
Dr.	Edgar Alberto	MORENO AROSEMENA	edgmorar@hotmail.com
Dr.	Shlomo	MOSHE	shlomo.moshe@gmail.com
Prof.	Jadranka	MUSTAJBEGOVIC	jmustajb@snz.hr jmustajb@gmail.com
Dr.	Charles	ROOS	charles.roos@eskom.co.za
Prof.	Charles Victor	SAMMUT	charles.v.sammuto@um.edu.mt
Dr.	Renata	SISTO	r.sisto@inail.it
Dr.	Martine	SOUQUES	martine.souques@edf.fr
Prof.	Elisaveta Dimitar	STIKOVA	elisaveta.stikova@fulbrightmail.org
Mr.	Jacques M.A.	SURBECK	jacksurb@gmail.com
Dr.	Robert	WALINDER	robert.walinder@medsci.uu.se
Dr.	Marc	WITTLICH	marc.wittlich@dguv.de
Prof.	Ignatius Tak Sun	YU	ignatiusyu78@gmail.com
Dr.	Giulio	ZANOTTI	giuliozanotti_zg@libero.it

New SC Members - who joined during the current triennium (2018 – 2022)

Name:

Email address:

Title	First Name	Last Name	E-mail
Dr.	Claudine	BACKES	claudine.backes@chuv.ch
Dr.	Rita	BRUGALETTA	rita.brugaletta@opbg.net
Dr.	Franklin	CANO VALCARCEL	frcanov@uqvirtual.edu.co
Dr.	Vincenzo	CAMISA	vincenzo.camisa@opbg.net
Dr.	Jelena Djurdje	DJOKOVIC	djokovicjelena10@gmail.com
Dr.	Prakash	GUPTA	Ohc.Himachal@unilever.com
Mr.	Kishor	HADKHA LE	kishor.hadkhale@gmail.com
Prof.	Ken	KARIPIDIS	Ken.Karipidis@arpansa.gov.au
Prof.	Jolanta	KARPOWICZ	jokar@ciop.pl
Prof.	Henrik A.	KOLSTAD	henrkols@rm.dk
Dr.	Daniele	MANDRIOLI	mandriolid@ramazzini.it
Dr.	Dragan	MIJAKOSKI	dmijakoski@yahoo.com
Dr.	Maria Grazia Lourdes	MONACO	mariagrazialourdes.monaco@aovr.veneto.it
Dr.	Gabriela	MORENO	

Dr.	Marilia Silva	PAULO	mariliap@uaeu.ac.ae
Prof.	Nina Borisovna	RUBTSOVA	rubtsovanb@yandex.ru
Dr.	Francesco	RUGGIERI	ruggierifrancescopio87@gmail.com
Prof.	Pietro	SARTORELLI	pietro.sartorelli@unisi.it
Dr.	Sasho	STOLESKI	sstoleski@yahoo.com
Prof.	Thomas	TENKATE	thomas.tenkate@ryerson.ca
Dr.	Salvatore	ZAFFINA	salvatore.zaffina@opbg.net

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

6 December 2021

Submitted by SC:

Reproductive Hazards in the Workplace
(SC RHICOH)

Name of Chair:

Hsiao-Yu Yang

Year of Appointment:

2018

Email address:

hyang@ntu.edu.tw

Name of Secretary:

Pau-Chung Chen

Year of Appointment:

2018

Email address:

pchen@ntu.edu.tw

SC Website URL (if available): <https://www.rhico.org/>

Other SC Means of Communication:

Focus and aim of the SC:

- Male mediated developmental toxicity
- Endocrine disruption chemicals
- Gene-environmental interaction in reproductive health
- Ergonomic risk factors for adverse pregnancy outcomes
- Reproductive health in the electronics industry

- Reproductive hazards in developing countries

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Nil (due to COVID-19)

Conferences, Seminars, Workshops, Courses, etc.:

Nil (due to COVID-19)

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

The SC has organised a scientific committee to conduct updated extensive reviews on (1) the effects of specific occupations on the reproductive system; (2) effects of occupational, physical exposure on the reproductive system; (3) effects of occupational psychosocial exposure on the reproductive system; (4) effects of occupational chemical exposure on the reproductive system. The SC will summarize the core findings and derive practical implications for research and practice in occupational health.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

Nil (due to COVID-19)

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Nil (due to COVID-19)

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

Nil (due to COVID-19)

Any other points of relevance:

Nil (due to COVID-19)

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024**Planned Scientific Contributions to the ICOH2022 Congress:**

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

The SC organised a Special Session SS 27 - 'Reproductive hazards in the workplace and environment'

Organiser/Chair: Hsiao-Yu Yang

Speaker 1: Chung-Yen Chen ccyares@gmail.com

Speaker 2: Rodger Tsai ricxeor@gmail.com

Speaker 3: Ping-Hui Chen charlie1216@gmail.com

Speaker 4: Min-Han Tsai b97401014@gmail.com

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

Nil (due to COVID-19)

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Nil (due to COVID-19)

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Nil (due to COVID-19)

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

The SC is planning to publish a position paper on 'Effects of occupational exposure on the reproductive system: An updated review of current core evidence and practical implications'.

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

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SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

Not investigated.

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

LAST NAME	FIRST NAME	EMAIL ADDRESS
APOSTOLI	Pietro	apostoli@med.unibs.it

BONDE	Jens Peter	jpb@bbh.regionh.dk
BURDORF	Alex	a.burdorf@erasmusmc.nl
CHEN	Pau-Chung	pchen@ntu.edu.tw
CHERRY	Nicola	ncherry@ualberta.ca
CHIA	Sin Eng	cofcse@nus.edu.sg
FESENKO	Marina Alexandrovna	marnast@gmail.com
FIGA-TALAMANCA	Irene	irene.figatalamanca@uniroma1.it
GUO	Yue-Liang Leon	leonguo@ntu.edu.tw
KRISTENSEN	Petter	petter.kristensen@stami.no
LINDBOHM	Marja-Liisa	marja-liisa.lindbohm@ttl.fi
SCHENKER	Marc B.	mbschenker@ucdavis.edu
SCHRADER	Steven	sms4@cdc.gov
SIVOCHALOVA	Olga Vitaljevna	sivolga38@mail.ru
TEFERA	Yonatal Mesfin	myontall@yahoo.com
TOFT	Gunnar	guntof@rm.dk
VIGEH	Mohsen	mohsen.vigeh@gmail.com
WANG	Jung-Der	jdwang@ntu.edu.tw
YANG	Hsiao-Yu	hyang@ntu.edu.tw

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

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Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

26 November 2021

Submitted by SC:

Respiratory Disorders (SC RD)

Name of Chair:

Rafael E. de la Hoz, MD, MPH, MSc

Year of Appointment:

2015

Email address:

Rafael.delaHoz@mssm.edu

Contact information:

WTC MMTP Box 1059,

One Gustave L. Levy Place,

New York, NY 10029, U. S. A.

Tel: (212)-241-7996, Fax (212)-241-5516

Name of Secretary:

Univ.-Prof. Dr. med. Thomas Kraus

Year of Appointment:

2015

Email address:

TKraus@ukaachen.de

Contact information:

Institut für Arbeits-, Sozial- und Umweltmedizin,

Uniklinik, RWTH Aachen,

Pauwelsstrasse 30, 52074 Aachen, Germany

Tel: 0049 (0)241 80 88880

SC Website URL (if available): N/A

Other SC Means of Communication: Electronic mail, LinkedIn group

Focus and aim of the SC:

The Scientific Committee on Respiratory Disorders (SC RD) focuses on all aspects of occupational respiratory health, from exposure to epidemiology, clinical diagnostic evaluation, treatment, and prevention. Most activities have been focused on radiological methods for diagnosis and surveillance, and evaluation of respiratory disorders after man-made disasters.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

As no business meetings will be scheduled at the ICOH2022 Congress, the SC RD will attempt to hold a business meeting beforehand.

Conferences, Seminars, Workshops, Courses, etc.:

The following Asian Intensive Reading of Radiographs for Pneumoconioses [according to ILO Classification] (AIR Pneumo) Workshops were held during the reporting period in collaboration with the Japan Society for Occupational Health Pneumoconioses Study Group and local governments and societies. The SC RD serves as one of the main organisers of these workshops:

- 23rd AIR Pneumo Workshop in February 2020, in Jakarta, Indonesia
- 24th AIR Pneumo International Workshop in December 2020, in Bangkok, Thailand
- 25th AIR Pneumo Workshop in 2021, in Kochi, Japan.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

Nil

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

- See below under 'Planned Scientific Contributions to the ICOH2022 Congress'

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Nil

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

Nil

Any other points of relevance:

Nil

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

SC RD contributions to the ICOH2022 Congress

Special Sessions:

- SS 28: Occupational Health in Disaster Management, Response, Research and Preparedness, sponsored by SC RD (primary), SC EPROH, and *Ad Hoc* Information Work Group (de la Hoz/Descatha/Lum)

- SS 33: Preventing occupational respiratory disease in SMEs: Sharing solutions from silicosis experiences, sponsored by SC OHSSEIS (primary) and SC RD (Seneviratne/de la Hoz)
- SS 08: From Chemical Massive Disaster to Prevention, sponsored by SC EPROH (primary) and SC OT, with participation of SC RD (Descatha/Jones, speaker: de la Hoz)

Free Paper Abstract Session:

- Occupational Respiratory Disorders, sponsored by SC RD (primary) (Guidotti/de la Hoz)

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

Nil

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Nil

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Nil

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Nil

Any other points of relevance:

Nil

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

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SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

Nil

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI - List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)**SC Members****Name:****Email address:**

Ken Takahashi	ktaka@med.uoeh-u.ac.jp
Otto Wong	OttoWong@aol.com
Tee Guidotti	tee.guidotti@gmail.com
Hua Fu	hfu@shmu.edu.cn
Antti Karjalainen	Antti.Karjalainen@occuphealth.fi
Igor Fedotov	fedotov@ilo.org
Sverre Langard	sverre.langard@uus.no
Katsuya Yahata	yahata@med.uoeh-u.ac.jp
Ignatius Yu	iyu@cuhk.edu.hk
Yukinori Kusaka	yukik@u-fukui.ac.jp
Narufumi Suganuma	nsuganuma@kochi-u.ac.jp
Hock Siang Lee	Lee_Hock_Siang@mom.gov.sg
Shlomo Moshe	moshe_sh@mac.org.il
Sasson Hadar	
Edward M. Cordasco	
Robert J. Golden	
Msechu S.M.K.	
G.K. Kulkarni	

Alf Fischbein	
Antonio De Sousa Uva	
Jinduo Zhao	jdzhao8888@yahoo.com.cn
Edward P. Horvath Jr	
Carl Zenz	
H. J. Woitowitz	
David Sherson	David.Sherson@ouh.regionsyddanmark.dk
Somkiat Siriruttanapruk	somkiatk@health.moph.go.th, sirirut.somkiat@gmail.com
Alp Ergoer	alp.ergor@deu.edu.tr
Mark Newson-Smith	mark.smith@enoc.com, mark.smith@emirates.net.ae
Giacomo Muzi	muzi@unipg.it
Yothin Benjawung	yothin@swu.ac.th
Pietro Sartorelli	sartorelli@unisi.it
Domyung Paek	paekdm@snu.ac.kr
Phanompun Siriwatananukul	
Arit Cimrin	acimrin@deu.edu.tr
Pitchaya Tuntiseranee	pphakthongsuk@gmail.com
Benoit Nemery	ben.nemery@med.kuleuven.be
Daniela Pelclova	daniela.pelclova@LF1.cuni.cz
Eniko Virag	Eniko_52@yahoo.com
Kunio Dobashi	dobashi@health.gunma-u.ac.jp
Thomas Kraus	tkraus@ukaachen.de
Rodney Ehrlich	Rodney.Ehrlich@uct.ac.za
Carl Hansen	carlhansen@dadlnet.dk
Audrey Benyu	abany.ni@mhsc.org.za
Lee Lay Tin	lee_lay_tin@yahoo.com
Seifeddin G. Ballal	
David MacKenzie	
F. H. Musch	dr.muesch@berufskrankheiten.de
Leif Aringer	
Rune Underskog	
Rafael E. de la Hoz	Rafael.delaHoz@mssm.edu
Taro Tamura	tarou@u-fukui.ac.jp
Hitomi Kanayama	hitomikanayama@post.nifty.jp

Marek Varga	marek.varga@upjs.sk
Lay Tin Lee	Lay_Tin_LEE@ttsh.com.sg
Nayab Sultan	nmsultan@gmail.com
Tse Lap Ah (Shelly)	shelly@cuhk.edu.hk
Hemant Kshirsagar	hemantkshirsagar@yahoo.co.in
Ramona Hambach	ramona.hambach@ua.ac.be
Jeremy Beach	jeremy.beach@ualberta.ca
Yuki Kosugi	e00833@yahoo.co.jp
Narongpon Dumavibhat (Paul)	dumavibhat@yahoo.com
Dr. Hsiao-Yu Yang	hyang@ntu.edu.tw
Dr Francisco Santos O'Connor	santosf@ilo.org
	priyankaroysskm@gmail.com
Dr. Zeynep Orhan	kanarya19071984@me.com
Hille Suojalehto	Hille.Suojalehto@ttl.fi
Dr. Sofie Acke	sofie.acke@mensura.be
Dr Anil Adisesh	Anil.Adisesh@Dal.Ca
Diemen Delgado	diemen.delgado@clinicarioblanco.cl
Prof. Dr. David Fishwick	d.fishwick@sheffield.ac.uk
Dr Vanessa Govender	vanessa@masakhanehealth.co.za
Prof. Sara de Matteis	sara.dem@unica.it
Prof. Robert Cohen	bobcohen@uic.edu
Marita del Pilar Asmat Inostrosa	pilarmarita1311@gmail.com
Prof. Dr. Tirthankar Ghosh	tirthag@gmail.com
Dr Govinda Narke	drgovindanarke@gmail.com
Dr. Jose Sanchez	drsanchezher@hotmail.com

Members who left the SC since the submission of the SC Midterm Report:
Name: **Email address:**



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

15 October 2021

Submitted by SC:

Rural Health – Agriculture, Pesticides
and Organic Dusts (SC RH)

Name of Chair:

Dr Sashikala Chandrasekar

Year of Appointment:

2019

Email address:

sashishekar@hotmail.com

Name of Secretary:

Dr Stefan Mandić-Rajčević

Year of Appointment:

2019

Email address:

stefan.mandicrajcevic@gmail.com

SC Website URL (if available): www.icohrural.org

Other SC Means of Communication: Website and E-mail

Focus and aim of the SC:

The Scientific Committee on Rural Health (SC RH) addresses the occupational hazards in agriculture, pesticide handling and organic dusts and their impact on health and also regarding biological risk of zoonoses in animal breeding. The Scientific Committee also focuses on health surveillance of agricultural workers and the structure and contents of occupational health services. The Scientific Committee promotes awareness about the

hazards and suggests remedial and preventive actions and also collaborates with other organisations active in rural health.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Mumbai, India

Date: 28 January 2020

Number of attendees: 6 - Gert van der Laan, Sashikala Chandrasekar, Erik Jørs, Pierluigi Cocco, Susan Brumby and Ramin Tabibi

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): February 2020

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The International Conclave on Occupational Health (OCCUCON 2020) – Mumbai, India – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch				
Type of event (please check):	Conference ✓	Seminar	Workshop	Course	Other
Date:	January 28 – February 1, 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	Indian Association of Occupational Health (IAOH)				
Co-organizers and Collaborators: Please identify and describe roles.	SC RH collaborated with seven other ICOH Scientific Committees. Professor Gert van der Laan, past Chair of SC RH, was one of the keynote speakers. SC RH organised two sessions. Ms Claudina Nogueira (VP, ICOH), and SC RH members Gert van der Laan, Sashikala Chandrasekar, Pierluigi Cocco, Susan Brumby, Erik Jørs, Mahinda Seneviratne and Ramin Tabibi were speakers in the sessions.				
Number of participants:	About 250				
Publication or provision of CD/DVD proceedings:	Yes				
Book of abstracts:	Yes				

Book of selected proceedings:	No
Special issue of peer reviewed journals:	Yes - Indian Journal of Occupational and Environmental Medicine
Assessment of success / impact:	Was well attended and appreciated by all the delegates

(2) Name of the event:	4 th International Occupational and Environmental Diseases Congress				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	5 – 8 March 2020				
Venue:	Istanbul, Turkey				
Organizers:	Biocidal Occupational and Environmental Health Association and Ministry of Health, Republic of Turkey				
Co-organizers and Collaborators: Please identify and describe roles.	SC RH collaborated with SC on Radiation and Work. The following SC RH members were in the Organising and Scientific Committees: Congress Chair - Muhsin Akbaba, Co-Chair - Claudio Colosio, Gert van der Laan and Stefan Mandić-Rajčević, and Sashikala Chandrasekar as Organising Secretary. Professor Gert van der Laan was one of the keynote speakers and was also a speaker in the SC RH session.				
Number of participants:	150				
Publication or provision of CD/DVD proceedings:	Yes				
Book of abstracts:	Yes				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:	Representatives of WHO, ILO, FAO from Turkey and Ministry of Health -Turkey participated and the Congress produced a great impact.				

(3) Name of the event:	Webinar on COVID-19				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	9 June 2020				
Venue:	Virtual Platform				
Organizers:	SC Rural Health				
Co-organizers and Collaborators: Please identify and describe roles.	Professor Claudio Colosio spoke on the COVID-19 pandemic in Italy and about the protective measures taken for the healthcare workers in the hospitals				
Number of participants:	35 – SC RH members and professionals involved in the management of COVID-19 from various countries				
Publication or provision of CD/DVD proceedings:	No				
Book of abstracts:	No				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:	Informative and interactive webinar				

(4) Name of the event:	8 th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	27 June 2020				
Venue:	Virtual Platform				
Organizers:	ASSP India and National Institute of Industrial Engineering, Mumbai, India				
Co-organizers and Collaborators: Please	SC on Rural Health collaborated with SC on Occupational Health in the Construction Industry.				

identify and describe roles.	Professor Gert van der Laan was a speaker in the plenary session. Dr Sashikala Chandrasekar was in the Scientific Committee and chaired the SC RH session.
Number of participants:	About 130
Publication or provision of CD/DVD proceedings:	No
Book of abstracts:	Yes
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success / impact:	Was well received by delegates

(5) Name of the event:	75 th Anniversary of the United Nations and 25 th Year of Beijing Declaration - UN Programme				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓
Date:	21 July 2020 and 22 September 2020				
Venue:	Virtual Platform				
Organizers:	The UN Women				
Co-organizers and Collaborators: Please identify and describe roles.	Dr Sashikala Chandrasekar, Chair of SC RH was an invited participant for the webinar held on 21 July and also for the UN session on women held on 22 September in connection with the UN General Assembly, September 2020				
Number of participants:	About 500				
Publication or provision of CD/DVD proceedings:	Yes				
Book of abstracts:	No				
Book of selected proceedings:	Yes				
Special issue of peer	No				

reviewed journals:	
Assessment of success / impact:	Informative and important webinar on SDG 5 – Gender Equality in all spheres including rural women

(6) Name of the event:	International Biocidal Congress, Turkey				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	5 - 7 March 2021				
Venue:	Virtual Platform				
Organizers:	Biocidal Occupational and Environmental Health Association, Cukurova University and Ege University, Turkey				
Co-organizers and Collaborators: Please identify and describe roles.	SC RH collaborated in the Congress. The following SC RH members were in the Organising and Scientific Committees: Professor Muhsin Akbaba (Congress Chair), Professor Claudio Colosio, Professor Gert van der Laan and Dr Sashikala Chandrasekar. The inaugural address was given by Professor Akbaba; Professor Claudio Colosio and Dr Sashikala Chandrasekar were among the key note speakers.				
Number of participants:	About 130				
Publication or provision of CD/DVD proceedings:	No				
Book of abstracts:	Yes				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:	Well received by delegates				

(7) Name of the event:	9th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				

Date:	28 - 29 April 2021
Venue:	Virtual Platform
Organizers:	American Society of Safety Professionals (ASSP) – India Chapter, SC on Occupational Health in the Construction Industry, University of Calcutta
Co-organizers and Collaborators: Please identify and describe roles.	SC RH collaborated with SC on Occupational Health in the Construction Industry, SC on Occupational Health in Small-Scale Enterprises and Informal Sector and SC on Occupational Health and Development. Professor Claudio Colosio, Professor Gert van der Laan and Dr Stefan Mandić-Rajčević were speakers from SC RH.
Number of participants:	120
Publication or provision of CD/DVD proceedings:	No
Book of abstracts:	Yes
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success / impact:	Interesting and informative

(8) Name of the event:	Generation Equality Forum				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓
Date:	30 June - 2 July 2021				
Venue:	Paris, France – Hybrid mode				
Organizers:	United Nations, Government of France, Government of Mexico, and UN Women.				
Co-organizers and Collaborators: Please identify and describe roles.	Session by Women in Global Health (WGH) with WHO on Gender Equity in healthcare workers. Dr Sashikala Chandrasekar participated in the Forum as a member in the Women in Global Health's delegation				
Number of	WGH Delegation – About 200				

participants:	
Publication or provision of CD/DVD proceedings:	Yes
Book of abstracts:	No
Book of selected proceedings:	Yes
Special issue of peer reviewed journals:	No
Assessment of success / impact:	Great success with many dignitaries attending from all over the globe in person and virtually

(9) Name of the event:	XXII World Conference on Safety and Health at Work 2021, Canada				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	20 - 23 September 2021				
Venue:	Virtual Platform				
Organizers:	Institute for Work and Health, Canadian Centre for Occupational Health and Safety, International Social Security Association and ILO				
Co-organizers and Collaborators: Please identify and describe roles.	Dr Sashikala Chandrasekar was a speaker in two sessions of ISSA Transportation and ISSA Agriculture and also participated in two sessions of 'Brain Dates' event for the delegates				
Number of participants:	About 2000				
Publication or provision of CD/DVD proceedings:	Yes				
Book of abstracts:	Yes				
Book of selected proceedings:	No				
Special issue of peer reviewed journals:	No				
Assessment of success / impact:	Great impact on the delegates from around the world about occupational health, prevention and safety culture				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines* and Position Papers*. **Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.*)

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

SC RH collaborated with the following seven ICOH SCs for OCCUCON 2020

1. SC on Education and Training in Occupational Health
2. SC on Occupational Health and Development
3. SC on Mining Occupational Safety and Health
4. SC on Occupational Health in the Construction Industry
5. SC on Small-Scale Enterprises and Informal Sector
6. SC on Effectiveness in Occupational Health Services
7. SC on Occupational Health in the Chemical Industry

SC RH collaborated for the Congress in Turkey with

1. SC on Radiation and Work

SC RH collaborated for ASSP India Conference with

1. SC on Occupational Health in the Construction Industry
2. SC on Occupational Health and Development
3. SC on Small-Scale Enterprises and Informal Sector

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

1. Session by WGH with WHO attended by Dr Sashikala Chandrasekar as a delegate in Generation Equality Forum organised by UN.

Collaboration with non-ICOH organisations:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations other than conferences.)

SC RH collaborated with the following non-ICOH organisations:

1. Ministry of Health, Republic of Turkey, ILO - Turkey and Biocidal Association, Turkey
2. American Society of Safety Professionals – India Chapter
3. National Institute of Industrial Engineering, Mumbai, India
4. University of Calcutta, India
5. Indian Association of Occupational Health

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

(Provide information about new contributions not already listed in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)

1. Special Session – SS 30 ‘Rural Health: Effects of Pesticides and Dust’
Speakers: Claudio Colosio, Pierluigi Cocco, Susan Brumby, Vivi Schlünssen
2. Special Session in collaboration with Collegium Ramazzini – SS 29 ‘Pesticides Issue with a Focus on Glyphosate’
Speakers: Daniele Mandrioli, Luoping Zhang, Kurt Straif, Angelo Moretto
3. Free Paper Session – Abstract Reviewers – Sashikala Chandrasekar, Pierluigi Cocco, Stefan Mandić-Rajčević and Susan Brumby

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

1. Public and Occupational Health in Sustainable Agriculture Conference, 21 – 24 August 2022, Odense, Denmark
2. American Society of Safety Professionals Conference - April 2022
3. Conference in association with the International Association of Rural Health and Medicine

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

1. SC on Occupational Health in the Construction Industry – Professional Development Conference 2022

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations other than conferences.)

1. University of Southern Denmark, OUH Odense University, Danish Society of Occupational and Environmental Medicine
2. International Association of Rural Health and Medicine
3. American Society of Safety Professionals - India Chapter

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

(Provide proposed title, authors, timeframe, publication vehicle, if possible.

**Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

Professor Claudio Colosio, past Chair of SC RH was elected as the President of the International Association of Rural Health and Medicine (IARM) for the term 2021 -2024.

An MOU between ICOH and IARM was signed during the ICOH 2012 - 2015 triennium for collaboration on activities to develop, promote and improve rural health globally. As Professor Colosio has taken over as President, these activities will be taken up with enthusiasm and interest which will help in achieving ICOH and SC RH goals in improving rural health globally.

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

(Please assess the success of the SC and its influence in improving global occupational health as a result of the work during the current Triennium. You may want to note anticipated impact. Give examples where possible.)

1. SC RH participated in various international and national events in many countries, promoting activities of both ICOH and SC RH and welcoming new members
2. SC RH membership list has acquired twelve new members
3. SC RH collaborated with many ICOH Scientific Committees and other organisations outside ICOH and made an impact in global occupational health

4. SC RH was involved in important conferences by proposing and organising many sessions and participants
5. SC RH organised a webinar for SC RH members on COVID-19
6. SC RH has also taken interest to participate in various UN and WHO activities and events.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
- ☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:	Email address:
1 Brumby Susan	susan.brumby@wdhs.net
2 Bulat Petar (Home)	bulatp@gmail.com
3 Calvert Geoffry	gcalvert@cdc.gov
4 Edith Clarke	clarke.edith@gmail.com
5 Cocco Gigi	coccop@medicina.unica.it
6 Coggon David	dnc@mrc.soton.ac.uk
7 Diallo Birama Syama Mali	drbirama@gmail.com
8 Enrico Oddone	enrico.oddone@unipv.it
9 Eva Andersson	eva.andersson@amm.gu.se
10 Benjamin Fayomi	bfayomi2@yahoo.fr
11 Silvia Fustinoni	silvia.fustinoni@unimi.it
12 Susan Go	santg03@yahoo.com
13 Stefan Mandić-Rajčević	stefan.mandicrajcevic@gmail.com
14 Jadranka Mustajbegovic	jmustajb@snz.hr
15 Natasa Janev Holzer	natasa.janev@gmail.com
16 Jørs, Erik	erik.dialogos@gmail.com;
17 Liesivuori Prof. Jyrki	jyrki.liesivuori@utu.fi
18 London, Leslie	Leslie.London@uct.ac.za
19 Mahinda Seneviratne	Mahinda.Seneviratne@workcover.nsw.gov.au
20 Miraglia Nadia	nadia.miraglia@unina2.it
21 Moretto Angelo	angelo.moretto@unipd.it
22 Maria Pieri	maria.pieri@unina.it
23 Sannolo Nicola	nicola.sannolo@unina2.it
24 Sashikala Chandrasekar	sashishekar@hotmail.com
25 Sekimpi Deogratias	dsekimpi@yahoo.com

26	Sigsgaard Torben	sigsgaard@dadlnet.dk	ts@ph.au.dk
27	Ueda Atsushi	a-ueda@gpo.kumamoto-u.ac.jp	
28	Gert van der Laan	g.vanderlaan@occmed.eu	
29	Antoine Vikkey Hinson	hinsvikkey@yahoo.fr	
30	Vivi Schlünssen	vivi_schlunssen@dadlnet.dk	vs@ph.au.dk
31	Alexandra Yepes	yepesboada@hotmail.com	
32	Sari Lelita	lelita4life@gmail.com	
33	Denny Hanifa	hanifadenny@mail.usf.edu	hanimd@hotmail.com
34	Eun Kee Park	eunkee.park@gmail.com	ekpark@kosin.ac.kr
35	Mounia El Yamani	m.el-yamani@invs.sante.fr	
36	Claudio Colosio	claudio.colosio@unimi.it	
37	Aki Baokon	akibaokon@gmail.com	
38	Armand Rajnoveanu	armand_doc@yahoo.com	
39	Buhara Onal	buharaonal@yahoo.com	
40	Marcia Bandini	marcia.bandini@icloud.com	
41	Martin Wilks	martin.wilks@unibas.ch	
42	Mohammad Saffree Jeffree	saffree@ums.edu.my	
43	Nonhlanhla Yalala	yalalan@gmail.com	
44	Noemia Loio	noemialoio@gmail.com	
45	Ramin Tabibi	tabibir@gmail.com	
46	Guilherme Candemil	gscandemil@yahoo.com.br	
47	Guanlan Zhao	zhaoguanlan0810@gmail.com	
48	Chalalai Hanchenlaksh	chalalai@sut.ac.th	
49	Mame Yacine Niang	2009yass@live.fr	
50	Claudia Meneses	menesessos@gmail.com	
51	Mario Di Gioacchino	digioacc@unich.it	
52	Yonatal Mesfin Tefera	rmyontall@yahoo.com	
53	Daniele Mandrioli	mandriolid@ramazzini.it	
54	Luca Fontana	lfontana73@yahoo.it	
55	Muhsin Akbaba	akbaba1953@gmail.com	
56	Dewi Sumaryani Soemarko	dewisoemarko@yahoo.com	
57	jianxiangdongvip	jianxiangdongvip@vip.163.com	
58	Jelena Djokovic	djokovicjelena10@gmail.com	
59	Radu Corneliu DUCAT	radu.duca@kuleuven.be	
60	Joan Visser	joan@occucare.co.za	
61	Taurai Mtetwa	mtetwa2@gmail.com	
62	Minha Rajput-Ray	m.rajput-ray@nnedpro.org.uk	
63	Olegario Muanantatha	omuanantatha@gmail.com	
64	Mireya Rifá Fabregat	rifamireya@gmail.com	

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



The SC Final Report covers the period January 2020 – February 2022. Please submit it no later than October 24, 2021 to:

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. *It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.*

Name of Secretary:	Claudia Roberta de Castro Moreno
Year of Appointment:	2018
Email address:	crmoresno@usp.br

Other SC Means of Communication:
 Facebook: <https://www.facebook.com/WorkingTimeSociety/> (478 Followers)
 Twitter: <https://twitter.com/worktimesociety> (507 followers)
 Listserv: sinet@gawo-ev.de (400 subscribers)

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The purpose of the SC on Shiftwork and Working Time is to serve as a forum to bring all stakeholders and researchers together to make advancements on the topic of shiftwork and its human effects. In doing so, its objectives are three-fold:

- To discuss both basic and applied research and problems of work scheduling,
- To act as an advisory committee for national and international bodies,
- To promote cooperative efforts for the solution of occupational work problems in this particular area.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) **Business meetings:** There have been no meetings of the general membership since the beginning of the pandemic. There have been 10 Board meetings a year since the beginning of the pandemic that include the SC Chair and Secretary and the Working Time Society treasurer and Board members. These meetings have been held on various virtual platforms.

Venue: Virtual Platforms

Date: 9/11/19; 11/13/19; 12/17/19; 3/2/20; 4/22/20; 5/19/20; 6/15/20; 7/14/20; 8/10/20; 9/9/20; 10/18/20; 11/17/20; 12/21/20; 1/26/21; 2/23/21; 3/23/21; 4/27/21; 5/25/21; 6/29/21; 7/27/21; 9/28/21

Number of attendees: Between 8 and 15

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): As these were not formal business meetings with all ICOH members invited, reports were not submitted.

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	8. Symposium der Arbeitszeitgesellschaft				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	9 October 2020				
Venue:	Virtual Meeting via Zoom				
Organizers:	German Language Working Time Society (Arbeitszeitgesellschaft)				
Co-organizers and Collaborators: Please identify and describe roles.					

Number of participants:	43
Publication or provision of CD/DVD proceedings:	N/A
Book of abstracts:	N/A
Book of selected proceedings:	N/A
Special issue of peer reviewed journals:	ASU Zeitschrift für medizinische Prävention, Issue 09/2021
Assessment of success / impact:	The annual Symposium included oral and virtual poster presentations on research and practice regarding working hours, mobile work, and their effects on worker health and safety. A workshop was held in which regulatory and design issues of different aspects of mobile work such as work-related travel and home office were discussed. Selected presentations were published as manuscripts in a special issue of ASU in 2021.

(2) Name of the event:	9. Symposium der Arbeitszeitgesellschaft				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	1 October 2021				
Venue:	University of Fribourg, Switzerland				
Organizers:	German Language Working Time Society (Arbeitszeitgesellschaft)				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	25				
Publication or provision of CD/DVD proceedings:	N/A				
Book of abstracts:	N/A				
Book of selected proceedings:	N/A				
Special issue of peer reviewed journals:	Planned for 2022 in the open access online journal sozialpolitik.ch				

Assessment of success / impact:	The annual Symposium included oral and virtual poster presentations on research and practice of working hours. The main topic was working hours before, during and after the pandemic. National findings from Germany, Austria and Switzerland were presented, in addition to other topics such as sleep in shiftworkers. Selected presentations will be published as manuscripts in a special issue of sozialpolitik.ch in 2022.
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(3) Name of the event:	The 6 th Annual Meeting of Work Time Japan Society (WTJS)				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
				✓	
Date:	30 July 2021				
Venue:	Virtual (MS Teams)				
Organizers:	Work Time Japan Society (WTJS)				
Co-organizers and Collaborators: Please identify and describe roles.	N/A				
Number of participants:	40				
Publication or provision of CD/DVD proceedings:	N/A				
Book of abstracts:	N/A				
Book of selected proceedings:	N/A				
Special issue of peer reviewed journals:	N/A				
Assessment of success / impact:	The Annual Meeting in 2021, entitled 'Effort to fulfil the new way of working', was held to have oral presentations as to mental health amid COVID-19, health improvement of truck drivers working irregular shifts, and future of working from home. The latest conditions of KAROSHI (death and health disorders due to overwork) also were presented. The presenters and participants discussed how the problems faced could be addressed effectively and be solved satisfactorily.				

(4) Name of the event:	Working Hours, Health, Wellbeing and Participation in Working Life - WOW Working Time Policy 2020 Symposium				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	13 November 2020				
Venue:	Hanaholmen, Espoo, Finland / Teleconference				
Organizers:	FIOH / WOW project				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	100				
Publication or provision of CD/DVD proceedings:	https://ttl.livestriimi.fi/wowsymposium/ https://www.ttl.fi/en/research-and-development-projects/wow/wow-policy-2020-symposium/ Working hours, health, well-being and participation in working life: Current knowledge and recommendations for health and safety (https://www.julkari.fi/handle/10024/140634)				
Book of abstracts:	N/A				
Book of selected proceedings:	N/A				
Special issue of peer reviewed journals:	N/A				
Assessment of success / impact:	<p>The Symposium presented and discussed:</p> <ul style="list-style-type: none"> - The main results of the large project WOW on the national trends and scenarios for the length, timing, tempo and control of working hours in the Nordic countries, as well as the main results on the association of working hours with health, well-being and participation in working life. - The results of several intervention studies on individual management of sleep and fatigue in shift work. The plenary lectures on the main results of the project will be given by key principle researchers of the project. - Policy recommendations for good Nordic working time models for health, well-being and participation in working life, collecting invited feedback from its national and international stakeholders for the final WOW Policy Paper 2020. 				

(5) Name of the event:	7 th WINC Symposium on Working Hours and Health				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	10 June 2021				
Venue:	Skype meeting				
Organizers:	Working Hours in the Nordic Countries (WINC), ICOH Scientific Committee on Shiftwork and Working Time				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	40				
Publication or provision of CD/DVD proceedings:	N/A				
Book of abstracts:	N/A				
Book of selected proceedings:	N/A				
Special issue of peer reviewed journals:	N/A				
Assessment of success / impact:	The programme included a keynote on long working hours and health by Professor Marianna Virtanen, School of Educational Sciences and Psychology, University of Eastern Finland, Joensuu, Finland, and a wide scope of talks, presentations, and discussions on working times and health.				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines* and Position Papers*. **Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.*)

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

A joint Special Session will be held at the ICOH2022 Congress, co-organised by the ICOH Scientific Committees on Work Organisation and Psychosocial Factors and Shiftwork and Working Time.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

Frank Pega, Bálint Náfrádi, Natalie C Momen, Yuka Ujita, Kai N Streicher, Annette M Prüss-Üstün, Technical Advisory Group; Alexis Descatha, Tim Driscoll, Frida M Fischer, Lode Godderis, Hannah M Kiiver, Jian Li, Linda L Magnusson Hanson, Reiner Rugulies, Kathrine Sørensen, Tracey J Woodruff. (2021). Global, regional, and national burdens of ischemic heart disease and stroke attributable to exposure to long working hours for 194 countries, 2000-2016: A systematic analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Journal of Environment International*, 154, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8204267/>.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

Several members of our Scientific Committee are executive members of other societies. They realized many scientific and outreach activities which are related to working time as workshops, live streams, and seminars. Below are some examples of non-ICOH organisations:

- German Language Working Time Society
- Work Time Japan Society
- Working hours in the Nordic Countries (WINC)
- Brazilian Sleep Association
- Brazilian National Association of Occupational Medicine

The SC also supported the *Working hours, sleep and fatigue: Meeting the needs of US workers and employers* event of the USA National Institute for Occupational Safety and Health held on September 13 – 14, 2019, with outputs prepared in 2020:

<https://blogs.cdc.gov/niosh-science-blog/2019/10/07/fatigue-forum/>

Any other points of relevance:

It has been challenging for the SC to focus on products when a number of university and other research activities were shut down. We focused our time on a membership survey, with which we are now working through the results and planning improvements to make the society more open and its information more accessible to those who seek and can benefit from it. This will include networking with a number of different organisations within and outside of ICOH.

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- A joint Special Session will be held at the ICOH2022 Congress, co-organised by the ICOH Scientific Committees on Work Organisation and Psychosocial Factors and Shiftwork and Working Time: SS 31 – ‘Recovery from Shiftwork: Approaches and Experience’
- The SC will also host a Free Paper Session; 19 paper submissions (oral and poster presentations) are now under review.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- Business meeting planned for the 2022 Working Time Society Symposium, scheduled for 27 October 2022. This will be a virtual meeting.
- There will also be a business meeting for the 2024 Working Time Society Symposium. Planning for that meeting has not yet begun, so time, place or whether it will be remote or in-person have yet to be decided.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- None are currently planned but will happen over the course of the coming year.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- We will continue to collaborate and support the annual meetings of the German Working Time Society, Japan Working Time Society and Working hours In the Nordic Countries.
- São Paulo School of Advanced Science on Ecology of Human Sleep and Biological Rhythms – An event will be held in November 2022 at the School of Public Health, University of São Paulo, São Paulo, Brazil.
https://espca.fapesp.br/school/sao_paulo_school_of_advanced_science_on_ecology_of_human_sleep_and_biological_rhythms/101/

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

- The 2022 SC virtual symposium is expecting to have a special issue within Chronobiology International, and perhaps another peer reviewed journal.

Any other points of relevance:

The SC is in the process of building its work plan for the next few years and will likely include additional outputs.

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The major accomplishment of this triennium was the publication of the review papers and consensus statements. While published in a peer-reviewed journal and touted through the SC community, it was a significant disappointment that the ICOH Board chose not to stand behind it as a point of protocol rather than a point of substance. It was well reported and communicated with ICOH that the SC was working on this, and would ask for its endorsement. Only after the fact was it made clear that process was not followed and therefore would only allow for the work to be acknowledged in its periodic newsletter. We believe that this hindered wider dissemination of this information and are unsure what was gained beyond purity of process.

The SC also held elections for its leadership and for the Board members of its twinned organisation, the Working Time Society. The incumbants from the prior triennium, Stephen Popkin as Chair, and Claudia Moreno as Secretary, were nominated and re-elected through standard process, and a treasurer and Board members of the Working Time Society were also nominated and elected through the same process, though there was no ICOH membership requirement for those positions.

The new leadership team was each assigned a standing committee to head up and develop a work plan for the current triennium: 2022 Symposium Committee, Communications Committee, Finance Committee, Honors and Awards Committee, Membership Committee, Publications Committee and Scientific Committee. The new work plans have begun to be posted on the website, which is being updated as part of the Communications Committee work. Recently, much time has been spent reconfiguring what was the 2021 symposium in Japan to the 2022 virtual symposium. A lot of time will be spent on this activity over the next year. The SC is also focused on diversity, equity, and environmental responsibility. In this regard, we are looking to expand our membership in lower GDP nations through active engagement with their scientific community through literature searches and through ICOH country liaisons, and by making the Society materials public domain to the extent possible, and having a low cost for its symposia along with other activities. We are also looking at a hybrid model going forward, allowing a much larger group to be able to participate at least in the research exchange if not the social networking. We also have plans for more career mentoring for early career or 'new career' researchers and practitioners in the area.

We are proud of the SC and its work and focus. It is a small, determined group that is highly motivated in growing international understanding of the impact of working time on worker health and safety, and ultimately to save lives, regardless of country GDP.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

ACEVEDO	Miguel	Dr.M.Acevedo@gmail.com
ÅKERSTEDT	Torbjörn	torbjorn.akerstedt@stress.su.se

BENAVENT	M. Amparo	amparobenavent@gmail.com
CHEN	Chung-yen	ccyares@gmail.com
FISCHER	Frida Marina	fischer.frida@gmail.com
FURLAN	Tomislav	tomislav.furlan@gmail.com
GARRAFA NUNEZ	Mayra	mayragarrafa@gmail.com
GÄRTNER	Johannes	gaertner@ximes.com
GORBLYANSKY	Yuri yurevich	gorblyansky.profpatolog@yandex.ru
HAHN	Helga	helga.hahn@gmx.at
HALL	Amy	amyhall@mail.ubc.ca
HÄRMÄ	Mikko I.	mikko.harma@ttl.fi
HARTH	Volker	harth@uke.de
IMAI	Tappei	t.imai@ohsupports.com
KIM	Inah	inahkim@hanyang.ac.kr
KOGI	Kazutaka	k.kogi@isl.or.jp
KUBO	Tomohide	tomohide.0911@jniosh.com
MORENO	Claudia Roberta de Castro	crmoreno@usp.br
ONWUKA	Godson Tochukwu	godsontochukwu@gmail.com
ORTUNO	Maria Amparo	zinizia2000@gmail.com
PEPLONSKA	Beata	beatap@imp.lodz.pl
PESEL	Giuliano	dr.giuliano.pesel@gmail.com
POPKIN	Stephen	Stephen.Popkin@dot.gov
SEN	Krishna Nirmalya	krishnanirmalya@gmail.com

SINAI PRIOLCAR	Xivananda	drxiva@gmail.com
STAUN	Julie M.C.	jules@anarki.dk
SUWAZONO	Yasushi	suwa@faculty.chiba-u.jp
TACHI	Norihide	ntachi@isc.chubu.ac.jp
TAKAHASHI	Masaya	takaham2@e-mail.jp
TITOPOULOU	Maria Dimitrova	titopoulos@lot-consult.com
YOSHIKAWA	Toru	yoshikawat@jnioshwork.com

Members who left the SC since the submission of the SC Midterm Report:

Name:		Email address:
BOBKO	Nataliya	nbobko@bigmir.net
COSTA	Giovanni	giovanni.costa@unimi.it
KOROMPELI	Anna	annabeli76@yahoo.com
POKORSKI	Janusz	mmpokors@cyf-kr.edu.pl



**ICOH 2018-2022 TRIENNium
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

23 October 2021

Submitted by SC:

Occupational Health in Small-Scale Enterprises
and the Informal Sector (SC OHSSEIS)

Name of Chair:

Mahinda Seneviratne

Year of Appointment:

2018

Email address:

Mahinda.seneviratne@safework.nsw.gov.au

Name of Secretary:

Somnath Gangopadhyay

Year of Appointment:

2018

Email address:

ganguly1961@gmail.com

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Emails to member list, WhatsApp (limited)

Focus and aim of the SC:

The aim of the Scientific Committee on Occupational Health in Small-Scale Enterprises and the Informal Sector (SC OHSSEIS) is to assist various disciplines in promoting and achieving healthy workplaces at Small and Medium Enterprises (SMEs) and to improve working conditions for workers in informal sectors, which consist the world's largest working populations.

The focus is on two areas:

- Building capability to prevent work-related injury, illness and disease in Micro and Small-Medium Enterprises (MSMEs)
- Promoting access to basic occupational health services for informal workers and identifying barriers and factors that affect their health at work.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Mumbai, India

Date: 29 January 2020

Number of attendees: 11

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): N/A

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	The International Conclave on Occupational Health (OCCUCON 2020) – Mumbai, India – a Joint Conference of eight ICOH SCs, the 70 th Annual National Conference 2020 of the Indian Association of Occupational Health (IAOH), and the 68 th Annual Conference of the IAOH Mumbai Branch				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓		✓		
Date:	January 28 – February 1, 2020				
Venue:	Nehru Centre, Mumbai, India				
Organizers:	Indian Association of Occupational Health (IAOH)				

<p>Co-organizers and Collaborators: Please identify and describe roles.</p>	<p>SC OHSSEIS was a member of the Organising Committee consisting of seven other ICOH Scientific Committees and IAOH representatives.</p> <p>SC OHSSEIS collaborated with four SCs in organising three Joint Sessions:</p> <ul style="list-style-type: none"> (1) SC on Occupational Health and Development on 'Migrant workers and informal workers in South and South-East Asia' (2) SC on Rural Health by providing a speaker on 'Climate change and impact of heat on rural workers' (3) SC on Mining Occupational Safety and Health + SC on Occupational Health and Development + SC on Occupational Health in the Construction Industry on 'Prevention of Silicosis and TB' <p>SC OHSSEIS organised an Oral Session on Occupational Health in SME and Informal Sectors with four presentations based on peer-reviewed abstracts.</p> <p>SC OHSSEIS provided two keynote speakers:</p> <ul style="list-style-type: none"> (1) Dr Yoshi Kawakami (ILO, New Delhi) presented 'ILO experiences on OSH of SMEs and the informal economy workplaces in the region, for example, WISE, WIND' (2) Professor Somnath Gangopadhyay (University of Calcutta) presented 'Interventions for betterment of health and safety in SMEs and informal sectors' <p>SC OHSSEIS organised a Workshop on 'Basic Occupational Hygiene for Small Enterprises' with expert advice and assistance by Professor Vidhya Venugopal</p> <p>SC OHSSEIS members presented at the Special Session on 'Values at Work' organised by Professor Michel Guillemin</p>
<p>Number of participants:</p>	<p>Over 200 total participants at the Conference with between 50-100 attendees at each of the above sessions.</p>
<p>Publication or provision of CD/DVD proceedings:</p>	<p>N/A</p>
<p>Book of abstracts:</p>	<p>Published</p>

Book of selected proceedings:	N/A
Special issue of peer reviewed journals:	N/A
Assessment of success / impact:	<p>Participants from diverse disciplines were engaged in discussion of occupational health issues affecting SMEs and informal sectors. Significant input by international and local (India and the region) experts through the successful collaboration between several ICOH Scientific Committees. Educational impact on large number of young Indian and regional health professionals.</p> <p>SC OHSSEIS prepared a media release calling for a concerted international action on the epidemic of silicosis among engineered stone fabrication workers. Potential joint action was discussed at the ICOH Midterm meeting in Rome in February 2020 and a proposal made for the MODERNET meeting in Berlin. Further action and impact were curtailed due to the onset of the COVID-19 pandemic globally in March 2020.</p>

(2) Name of the event:	9 th Annual Professional Development Conference of the American Society of Safety Professionals (ASSP) - India Chapter: 'Promoting Sustainability and Social Well-being through Excellence in OSH'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
	✓				
Date:	28 – 29 April 2021				
Venue:	University of Calcutta, Kolkata, India				
Organizers:	American Society of Safety Professionals (ASSP) – India Chapter and the University of Calcutta				
Co-organizers and Collaborators: Please identify and describe roles.	SC on Occupational Health in the Construction Industry organised the event and collaborated with SC OHSSEIS and SC on Rural Health in presenting sessions and providing speakers.				

Number of participants:	150
Publication or provision of CD/DVD proceedings:	No
Book of abstracts:	Published
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success / impact:	No

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

- Banibrata Das, **Somnath Gangopadhyay** and Tirthankar Ghosh. The effects of using an ergonomic aid on the physical workload and body discomfort reported by pre-adolescent farmers in West Bengal. *Work* 2021 Oct 12. doi: 10.3233/WOR-213593. (Online ahead of print).
- P Mukherjee, AS Roy, A Bandyopadhyay, **S Gangopadhyay**. A detailed study on morphological profile, hand grip strength, flexibility, and working postures in housemaids of Kolkata. *BLDE Univ J Health Sci* 2020;5:200-208.
- White Paper on Future of Decent Work (Paul Schulte - Chair)
 - The SC OHSSEIS contributed to a section on migrant workers through the 'Working Group on Demographic Changes and Occupational Health'

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

1. SC OHSSEIS members collaborated with the SC on Unemployment, Job Insecurity and Health (SC UJIH) on:

- Survey to study the impact of COVID-19 on unemployment and worker vulnerability

The aim of this pilot survey was to find ways to cushion the effect of COVID-19 on the work-lives of individuals and communities around the world. Survey findings were shared with the OHS community to guide further research, helping advocate for programmes and interventions.

- Joint application for a Pilot Framework for a COVID Secure Awareness Programme on Occupational Health and Safety for Small and Medium Enterprises and Informal Economy Operators in Lagos State, Nigeria.

This was an innovative joint Scientific Committees project bringing together the Scientific Committees SC UJIH and SC OHSSEIS.

2. SC OHSSEIS collaborated with the ICOH National Secretary of Australia at:
 - Australian Institute of Occupational Hygiene (AIOH) Annual Conference 2019 in Perth, Western Australia on 3 December 2019 for a presentation on 'Basic Occupational Hygiene Services for Small Enterprises'.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- SC OHSSEIS members helped with other language versions and promoted the COVID-19 prevention material for workplaces developed by the ILO and provided by SC member Dr Tsuyoshi Kawakami. These were:

(1) An action-checklist for COVID-19 prevention

(2) A short video clip, 'COVID-19: Three tips to protect SME Workers' available at https://www.ilo.org/newdelhi/info/public/vid/WCMS_740672/lang--en/index.htm

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

- Hunan Prevention and Treatment Institute of Occupational Diseases invited the SC OHSSEIS Chair to attend the 6th Annual Conference of Occupational Diseases and Poisoning Medicine in Hunan Province held on 20-21 November 2019 at Changsha, Hunan Province, Peoples Republic of China and present a keynote lecture titled 'Improving the working environment to prevent pneumoconiosis in migrant workers'.
- Presentations by SC OHSSEIS members at the 2nd International Industrial and Environmental Toxicology Congress which was held virtually/online in Turkey on 18-22 November 2020:

- SC OHSSEIS members submitted three abstracts related to the Congress topic 'Occupational Health and Medicine' in the areas of construction sector OHS management (Peru), present scenario of SMEs (India) and silicosis epidemic among SME workers (global).
- Prof Somnath Gangopadhyay (Secretary of SC OHSSEIS) was:
 - Lead speaker at the HWWE 2020 Conference. Webinar organised by Theem College of Engineering, Boisar, India, through Google Meet on 11 December 2020. His presentation was titled 'Humanizing work in Indian SMEs during the 'new normal' situation'
 - Invited presenter at the online Conference 'Ergonomics and Human Factors 2021' (EHF 2021) held from 19 to 21 April 2021. His presentation was titled 'Occupational Health Survey among Indian Postal Workers during the COVID-19 Pandemic'
 - Keynote speaker at the online Symposium 'Effects of the pandemic process on Occupational Health and Safety' held from 22 to 23 October 2021. Symposium organised by Union of Chambers of Turkish Engineers and Architects Chamber of Mechanical Engineers, Adana, Turkey. His presentation was titled 'Effects of the pandemic: An Indian perspective'.

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

(Provide information about new contributions ***not already listed*** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)

1. Special Session SS 33 - 'Preventing occupational respiratory disease in SMEs: Sharing solutions from silicosis experiences' organised in collaboration with the SC on Respiratory Disorders (SC RD) – coordinating session with two speakers from SC OHSSEIS.
2. Special Session SS 32 - 'Migrant Workers' Health: Solutions to empower and inspire change' organised in collaboration with MAHDRI group / International Organisation on Migration (IOM) – four speakers arranged and SC OHSSEIS will chair the session.
3. Coordinating a Free Paper Session with several abstract reviewers from the SC OHSSEIS.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- The SC OHSSEIS business meeting is being planned to be held one week after the ICOH2022 Congress.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- Symposium on 'Impact of COVID-19 on informal workers' (collaborating SCs to be organised)
- Workshop on 'How to make your SME a safe and healthy workplace' (to be organised)

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

In progress

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Under consideration

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The COVID-19 pandemic had a significant impact on SC OHSSEIS plans to integrate several on-ground activities with the global priorities of the Sustainable Development Goal (SDG) on Decent Work (SDG 8).

On the other hand, the global pandemic exposed several inequities and fault lines on hitherto overlooked issues related to informal workers who consist a large sector of the global workforce. The additional economic burdens on small-scale enterprises (SSEs) and their owners and workers were also regularly in focus in most countries. SC OHSSEIS kept up to date with developments, new reports and publications and engaged with, collaborated with several SCs, and assisted members, to do what was practicable within their own circumstances in this challenging period.

SC OHSSEIS's participation in several online events and other individual activities reported here are indicative of the success in our efforts to make some impact on the overlapping occupational and public health issues during this challenging period.

SC OHSSEIS expanded its member base during this period with professionals from different disciplines and countries joining the SC. SC OHSSEIS now has a good geographic reach which is reflected in the broader participation by our members from different regions in various events. Our ongoing success is in drawing attention to informal workers who are generally overlooked in various policies and programmes and collaborating with other partners in giving attention to their occupational health challenges.

SC OHSSEIS has closely observed several developments in occupational and public health in relation to SSEs and informal sectors during the pandemic. We plan to take some strategic actions in the next triennium which will be appropriate to the needs and priorities after assessing the situation in various regions.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC OHSSEIS Members - Name and Email address (51 members, as at 28 October 2021)

Title	First Name	Last Name	E-mail
Prof.	Ann-Beth	ANTONSSON	annbeth.antonsson@ivl.se
Dr.	Sara	ARPHORN	phsao@mahidol.ac.th
Mrs	Daniela	BLECK	bleck_daniela@gmx.de
Ms	Karla	CANOVA	karlacadanova@gmail.com
Dr.	Edith Essie	CLARKE	clarke.edith@gmail.com
Dr.	Somnath	GANGOPADHYAY	ganguly1961@gmail.com
Dr	Tirthankar	GHOSH	tirthag@gmail.com
Mr.	Luis Gustavo	GONZALEZ VARGAS	lgustavo.gv@gmail.com

Prof.	Peter	HASLE	hasle@iti.sdu.dk
Prof.	Toru	ITANI	toruitani@hotmail.com
Ms	Waruntorn	JONGRUNGROTSAKUL	waruntorn.j@cmu.ac.th
Dr.	Sunil Kumar	JOSHI	drsunkilj@gmail.com
Mr.	Shamusideen Adio	KADIRI	skadiri782000@yahoo.com
Dr.	Sougata	KARMAKAR	karmakar.sougata@gmail.com
Mr.	Yusuf Matovu	KATULA	ykmkat@gmail.com
Dr.	Tsuyoshi	KAWAKAMI	kawakami@ilobkk.or.th; kawakami@ilo.org
Mr	Alisher	KHUSAINOV	conseras.int@gmail.com
Prof.	Bengt	KNAVE	bengt.knave@telia.com
Dr.	Kazutaka	KOGI	k.kogi@isl.or.jp
Dr.	Bayeje Herve Anicet	LAWIN	hervelawin@gmail.com
Dr.	Kuburat Enitan	LAYENI-ADEYEMO	enilay2@yahoo.com
Ms	Suvi Anneli	LEHTINEN	suvi.a.lehtinen@outlook.com
Prof.	Jyrki	LIESIVUORI	jyrki.liesivuori@utu.fi
Prof.	Adnjana	MANUABA	manad2011@yahoo.com
Dr.	Nigel C	MARSH	mohc@bigpond.net.au
Dr.	Norvil Antonio	MERA CHU	msadnmch@hotmail.com
Dr.	Jiro	MORIGUCHI	moriguchi@hokenkai.jp
Dr.	Shubhendu	MUDGAL	mudgals59@gmail.com
Prof.	Takashi	MUTO	mutot@dokkyo.med.ac.jp
Dr.	Saeher A Fatima	MUZAFFAR	saeherm@yahoo.com
Dr.	Ove	NÄSMAN	ove.nasman@kivaq.fi
Dr.	Lee Scott	NEWMAN	Lee.newman@ucdenver.edu
Ms	Mame Yasmine	NIANG	yniang@secusociale.sn
Dr.	Kessarawan	NILVARANGKUL	kessa_ni@kku.ac.th
A/P	Noriko	NISHIKIDO	nn0729@hotmail.co.jp
Prof.	Wai-On	PHOON	
Prof.	Jorma	RANTANEN	jorma.h.rantanen@gmail.com
Dr.	Benito R.	REVERENTE JR.	brr@prudentiallife.com
Prof.	Jae Hoon	ROH	jhroh@yuhs.ac
Dr.	Priyanka	ROY	priyankaroysskm@gmail.com
Dr.	Yogindra Subhash	SAMANT	yogindra.samant@arbeidstilsynet.no
Dr.	Natalie Virginia	SCHWATKA	natalie.schwatka@ucdenver.edu
Dr.	Tateishi	SEIICHIRO	tateishi@med.uoeh-u.ac.jp
Mr.	Mahinda	SENEVIRATNE	mahinda.seneviratne@safework.nsw.gov.au
Ms	Angelica	SIEW	angelica.ss.siew@gmail.com
Ms	Wanpen	SONGKHAM	wsongkhu@hotmail.com
Dr	Jay	SOORYA	jaysoorya69@yahoo.co.in
Dr.	Norihide	TACHI	ntachi@isc.chubu.ac.jp
Ms	Nonhlanhla Ndhlovu	YALALA	yalalan@gmail.com

Dr.	Etsuko	YOSHIKAWA	e-yoshikawa@redcross.ac.jp
Dr.	Toru	YOSHIKAWA	yoshikawat@jnioshwork.com



ICOH 2018-2022 TRIENNium
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

15 October 2021

Submitted by SC:

Thermal Factors (SC TF)

Name of Chair:

Associate Professor Jason Lee

Year of Appointment:

2019

Email address:

phsjlkw@nus.edu.sg

Name of Secretary:

Dr Rissanen Sirkka

Year of Appointment:

2019

Email address:

sirkka.rissanen@ttl.fi

SC Website URL (if available): www.icohsctf.org

Other SC Means of Communication:

SC TF email address: info@icohsctf.org

Online meetings using Zoom; email correspondences; social media platforms (early 2020)

Focus and aim of the SC:

To work on joint publications and consensus reports in the areas of heat stress on occupational health and productivity, organise symposia and contribute to selected conferences, and influence international policies in this area.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:** 3rd meeting of the SC on Thermal Factors (SC TF)

Venue: Virtual Meeting on Zoom

Date: 3 June 2019

Number of attendees: 22

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): 29 November 2019**2) Business meeting:** 4th meeting of the SC on Thermal Factors (SC TF)

Venue: Virtual Meeting on Zoom

Date: 3 June 2021

Number of attendees: 17

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): 19 June 2021**Conferences, Seminars, Workshops, Courses, etc.:**

(1) Name of the event:	Dialogue: Heat in the Workplace				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
			✓		
Date:	29 July 2020				
Venue:	Online: https://ghhin.org/dialogue-heat-in-the-workplace/ Meeting report: https://ghhin.org/wp-content/uploads/outcomes-heat-in-the-workplace-final.pdf				
Organizers:	Global Heat Health Information Network (GHHIN)				
Co-organizers and Collaborators: Please identify and describe roles.	SC TF members: <ul style="list-style-type: none">- Jason Lee, National University of Singapore- Elspeth Oppermann, Ludwig-Maximilians-Universität München Christopher Boyer University of Washington Joy Shumake-Guillemot WHO / WMO Joint Office for Climate and Health				

	<p>Hunter Jones US National Oceanic and Atmospheric Administration (NOAA)</p> <p>Maddie West WHO / WMO Joint Office for Climate and Health</p>
Number of participants:	> 100 participants
Publication or provision of CD/DVD proceedings:	https://www.youtube.com/watch?v=1y9UW_Q2avk
Book of abstracts:	Nil
Book of selected proceedings:	Nil
Special issue of peer reviewed journals:	Nil
Assessment of success / impact:	Huge success to highlight occupation heat stress at global platform like the Global Heat Health Information Network (GHHIN) which helps bring together a wide range of partners including practitioners, governments, NGOs, academia across a multitude of expertise all with the common goal of improving and protecting public health and reducing heat health risk.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines* and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)

- Lee J, Venugopal V, Latha PK, Alhadad SB, Leow HWC, Goh NYD, Tan E, Kjellstrom T, Morabito M, Lee JKW. Heat stress and thermal perception amongst healthcare workers during the COVID-19 pandemic in India and Singapore. *International Journal of Environmental Research and Public Health*. 2020, 7(21): 8100
<https://www.mdpi.com/1660-4601/17/21/8100>
- Heat and COVID-19 Information Series
<https://ghhin.org/heat-and-covid-19/>

- Daanen H, Bose-O'Reilly S, Brearley M, Flouris AD, Gerrett, NM, Huynen M, Jones HM, Lee JKW, Morris N, Norton I, Nybo L, Oppermann E, Shumake-Guillemot J, Van den Hazel P. COVID-19 and thermoregulation-related problems: Practical recommendations. *Temperature*, 2020, 8:1, 1-11
<https://www.tandfonline.com/doi/full/10.1080/23328940.2020.1790971>
- Bose-O'Reilly S, Daanen H, Deering K, Gerrett N, Huynen MTE, Lee JKW, Karrasch S, Matthies-Wiesler F, Mertes H, Schoierer J, Shumake-Guillemot J, van den Hazel P, van Loenhout JAF, Nowak D. COVID-19 and heat waves: New challenges for healthcare systems – a narrative review. *Environmental Research*. 2021, 198: 111153.
<https://www.sciencedirect.com/science/article/pii/S0013935121004473?via%3Dihub>

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

- In collaboration with the Chair of the SC on Reproductive Hazards in the Workplace (SC RHICOH): Yang HY, Lee JKW. The impact of temperature on the risk of COVID-19: A multinational study. *International Journal of Environmental Research and Public Health*. 2021, 18 (8): 4052.
<https://www.mdpi.com/1660-4601/18/8/4052>

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- See earlier outputs in collaboration with the Global Heat Health Information Network (GHHIN). GHHIN is a global partnership spearheaded by the World Meteorological Organisation, World Health Organization Joint Climate and Health Office and U.S. National Oceanic and Atmospheric Administration. GHHIN focuses on providing information to protect people from avoidable heat-health risks in a changing climate.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

- UArctic Congress, Session: Work and Health in the Arctic by FIOH
Date: 18 May 2021
Location: Reykjavik, Iceland
Two presentations by SC TF members in this Congress:
 - Hilde Faerevik: 'Health effects of cold exposure in different occupations'

- Sirkka Rissanen: 'Use of respirators in the cold'

Any other points of relevance:

SC TF webpage (www.icohsctf.org): This webpage was created and maintained to catalogue all activities of SC TF. Information about SC TF members and news articles relevant to SC TF can also be found on the webpage.

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- Special Session: SS 34 – 'Climate change, workplace heat, and occupational health and productivity'

Speakers:

- 1 - Jason Lee: Workers' health and work productivity – accounting for their physiology
- 2 - Matt Brearley: Impacts and implications of heat exposure in the Australian workplaces
- 3 - Elspeth Oppermann: Climate change, heat exposure and social impacts in and beyond the workplace: A systematic review and development of a cross domain framework for analysis and assessment
- 4 - Wenjia Cai: Assessment of the economic impact of heat-related labour productivity loss: A systematic review.

- Free Paper Session: Thermal Factors; 17 abstracts received
Abstract reviewers: J. Lee, S. Rissanen, M. Brearley, H. Otani, E. Opperman, V. Venugopal

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- We will be convening our 5th SC TF meeting in November/December 2021 to determine the new activities in the new Triennium.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- No specific plans for now. But there are initial discussions with the Chair of SC RHICOH to collaborate on topics related to thermal stress on reproductive health.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- Closer collaborations will be established with the Global Heat Health Information Network (GHHIN), including being in their Steering Committee to emphasise workers' health and work productivity in a warming world.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

- To be determined. A methodological paper to quantify thermal stress on workers is being discussed.

Any other points of relevance:

Nil

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

- In the current Triennium, we have recruited additional members to the SC TF. In addition, in collaboration with GHHIN and other bodies, we have forged closer networks with other agencies towards thermal factors on workers. The pandemic has dented certain processes but all in all, our influence and collaborative efforts were still enhanced. With the worst of pandemic behind us, we look forward to even more activities in the next Triennium.

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

- ☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

S/N	First Name	Last Name	Email address
1	Jason	Lee (Chair)	phsjlkw@nus.edu.sg
2	Sirkka	Rissanen (Secretary)	sirkka.rissanen@ttl.fi
3	Tord	Kjellstrom (Advisor)	kjellstromt@yahoo.com
4	Ariane	Adam-Poupart	ariane.apoupart@gmail.com
5	Sultan	Al Otaibi	sultan.otaibi@aramco.com
6	Matt	Brearley	matt.brearley@gmail.com
7	Wenjia	Cai	wcai@tsinghua.edu.cn
8	Ross	Di Corleto	r.dicorleto@bigpond.com
9	Hilde	Ferevik	hilde.ferevik@sintef.no
10	Jason	Glaser	jason@laislanetwork.org
11	Seichi	Horie	horie@med.uoeh-u.ac.jp
12	Yuri	Hosokawa	yuriosokawa@waseda.jp
13	France	Labreche	france.labreche@irsst.qc.ca
14	Bruno	Lemke	bruno.lemke@xtra.co.nz
15	Elspeth	Opperman	elspeth.oppermann@lmu.de
16	Hidenori	Otani	ironedih119@gmail.com
17	Matthias	Otto	matthias.otto@nmit.ac.nz
18	Wantanee	Phanprasit	phwpp2@gmail.com
19	Hugo	Piedrahita	hugopiedrahita@hotmail.com
20	Manoj	Potapohn	potapohnm@gmail.com
21	Marc	Schenker	mbschenker@ucdavis.edu
22	Rekha	Shanmugam	rekha1986sweety@sriramachandra.edu.in
23	Masatoshi	Tanaka	norihito@med.uoeh-u.ac.jp
24	Saturo	Ueno	ueno@h.jniosh.johas.go.jp
25	Vidhya	Venugopal	vvidhya@ehe.org.in
26	Kinnaletth	Vongchanh	kinnaletthv@gmail.com
27	Hsiao-Yu	Yang	hyang@ntu.edu.tw
28	Efi Yuliati	Yovi	eyyovi@apps.ipb.ac.id
29	Shin-ichi	Sawada	sawada@h.jniosh.go.jp

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:

None



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

**The SC Final Report covers the period January 2020 – February 2022.
Please submit it no later than October 24, 2021 to:**

Vice President: Claudina Nogueira claudinanogueira@hotmail.com
cmcanogueira@gmail.com
Secretariat General icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:	23 October 2021
Submitted by SC:	Toxicology of Metals (SC TM)
Name of Chair:	Natalia Pawlas
Year of Appointment:	2018
Email address:	n-pawlas@wp.pl
Name of Secretary:	Veruscka Leso
Year of Appointment:	2018
Email address:	veruscka.leso@unina.it

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Currently our means of communication is by periodical e-mails

Focus and aim of the SC:

The Scientific Committee on the Toxicology of Metals (SC TM) focuses on the toxicological aspects of occupational and environmental exposure to metals, the health effects of prolonged exposure to low doses, absorption from multiple routes, and gene-environment interaction. These aspects seem necessary to support adequate risk assessment and management strategies in general living, and in occupational settings as

well as in novel technological processes and industries involved in metal production, processing, handling, as well as recycling and disposal. The aim of the SC TM is to stimulate research on novel biomarkers of exposure, effect and susceptibility, on health and safety aspects of heavy metal exposure with a particular focus on possible implications for occupational health, as well as on policies to manage risks in different occupational settings.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Nil

Conferences, Seminars, Workshops, Courses, etc.:

Nil

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

Former Chair of the SC TM Professor Gunnar Nordberg, in collaboration with Max Costa, edited the 5th edition of 'Handbook on the Toxicology of Metals', which will be published in December 2021. Many SC TM members, including our former officers – Gunnar Norberg, Lars Barregard, Roberto Lucchini, and other members - Monica Nordberg, Alfred Bernard, Silvia Fustinoni, Michael Aschner, Ivo Iavicoli, Veruscka Leso and Natalia Pawlas - prepared chapters for the book, e.g.:

- Book chapter: Veruscka Leso, Ivo Iavicoli. Chapter 28 'Rhodium', In: Handbook on the Toxicology of Metals, 5th edition, Volume II. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. In press.

- Book chapter: Veruscka Leso, Ivo Iavicoli. Chapter 16 'Iridium', In: Handbook on the Toxicology of Metals, 5th edition, Volume II. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. In press.
- Book chapter: Natalia Pawlas, Cezary Pałczyński. Chapter 5 'Beryllium', In: Handbook on the Toxicology of Metals, 5th edition, Volume II. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. In press.
- Book chapter: Karin Broberg, Natalia Pawlas. Chapter 15 'Gene-environment interactions and metal toxicity', In: Handbook on the Toxicology of Metals, 5th edition, Volume II. Editors: Gunnar Norberg, Max Costa. Ed. Elsevier. In press.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

The SC TM has collaborated with the SC on Occupational Toxicology (SC OT) and the SC on Nanomaterial Workers' Health. The SC TM is available for future collaborations with other SCs.

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

At the present time we have no planned participation and support to WHO – ILO meetings and/ or publications.

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

A Special Session on 'Toxicology of Metals' is planned for the next ICOH2022 Congress.

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

We are planning to have the next business meeting of the SC TM at the 33rd International Congress on Occupational Health (ICOH2022).

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

The SC TM will continue to collaborate with the SC OT and the SC on Nanomaterial Workers' Health. The SC is available for future collaborations with other SCs.

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

At present no collaborative activities with other non-ICOH organisations have been planned, however the SC is willing to cooperate with non-ICOH organisations.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

(Provide proposed title, authors, timeframe, publication vehicle, if possible.

**Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Publications will be produced in collaboration with the SC OT and the SC on Nanomaterial Workers' Health.

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The success of the SC TM and its influence in improving global occupational health relies on the strong impact that the exposure to metals in occupational settings has for the health of involved workers and the need for innovative strategies for risk assessment and management processes that require to be updated according to the emerging sources of exposures and their different features, in terms of length of exposure, mixtures of substances and individual or collective susceptibility to adverse health effects. Our SC has a robust set of members that participate in the activities from several years and are involved in updated international scientific publications.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)
SC Members**Name:****Email address:**

Last name	First name	Email address
1. AKERSTROM	Magnus	magnus.akerstrom@amm.gu.se
2. ALAGUNEY*	Mehmet Erdem	alaguney@gmail.com
3. ANDERSEN	Ole	oa@ruc.dk
4. APOSTOLI	Pietro	apostoli@med.unibs.it
5. ASCHNER	Michael	michael.aschner@vanderbilt.edu
6. BARREGARD	Lars	lars.barregard@amm.gu.se
7. BERGDAHL	Ingvar Arne	ingvar.bergdahl@envmed.umu.se
8. CONTI	Marcelo Enrique	marcelo.conti@uniroma1.it
9. DE LA HOZ	Rafael E.	Rafael.delaHoz@mssm.edu
10. DE PALMA	Giuseppe	giuseppe.depalma@unibs.it
11. ELLINGSEN	Dag Gunnar	dag.ellingsen@stami.no
12. FOWLER	Bruce A.	bafowler777@gmail.com
13. FUSTINONI	Silvia	silvia.fustinoni@unimi.it
14. HAMBACH	Ramona	ramona.hambach@ua.ac.be
15. HARARI FREIRE	Florencia	florencia.harari@gmail.com
16. HU	Yu	hujifang2002@yahoo.com
17. HUSIN	Shawaludin	drshawal@yahoo.com
18. IAVICOLI	Ivo	ivo.iavicoli@unina.it

19. JONES	Kate	kate.jones@hsl.gsi.gov.uk
20. KIILUNEN	Mirja Kristiina	mirja.kiilunen@ttl.fi
21. KIM	Yangho	yanghokm@nuri.net
22. KODAMA	Yasushi	y-kodama@mvj.biglobe.ne.jp
23. LANGARD	Sverre	sverre.langard@ous-hf.no
24. LEE	Byung-Kook	bkleee@sch.ac.kr
25. LEE	Sung soo	sungsool@sch.ac.kr
26. LESO	Veruscka	veruscka.leso@unina.it
27. LISON	Dominique F.	lison@toxi.ucl.ac.be
28. LUCCHINI	Roberto G.	roberto.lucchini@mssm.edu
29. MONROY	Aquiles	aqmonroy@yahoo.es
30. MURATA	Katsuyuki	winestem@med.akita-u.ac.jp
31. NARAY	Miklos	naraym@omfi.hu
32. NOGAWA	Koji	knogawa@faculty.chiba-u.jp
33. NORDBERG	Gunnar	gunnar.nordberg@envmed.umu.se
34. NORDBERG	Monica	monica.nordberg@ki.se
35. OSKARSSON	Agneta	Agneta.Oskarsson@bvf.slu.se
36. PAWLAS	Natalia Urszula	n-pawlas@wp.pl
37. SALLSTEN	Gerd Ingeborg	gerd.sallsten@amm.gu.se
38. SURAYA	Anna	anna_suraya2005@yahoo.com
39. TELISMAN	Spomenka	telisman@imi.hr
40. VAGN	Englyst	
41. VIGEHE	Mohsen	mohsen.vigeh@gmail.com
42. YOUNES	Maged	magedyounes@gmail.com

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:

* Dr. Alaguney was not present in the list of members of the SC that we included in the Midterm Report, but communicated to the ICOH Secretariat (icoh@inail.it), Chair and Secretary of the SC his willingness to leave the SC on 9 October 2021.



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

**The SC Final Report covers the period January 2020 – February 2022.
Please submit it no later than October 24, 2021 to:**

Vice President: Claudina Nogueira claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date: 22 October 2021
Submitted by SC: Unemployment, Job Insecurity and Health (SC UJIH)

Name of Chair: Dr Minha Rajput-Ray
Year of Appointment: 2018
Email address: m.rajput-ray@nnedpro.org.uk

Name of Secretary: Dr Anna Suraya
Year of Appointment: 2018
Email address: anna_suraya2005@yahoo.com

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Focus and aim of the SC:

The Scientific Committee on Unemployment, Job Insecurity and Health (SC UJIH) aims at bridging research and practice of the areas of psychological, sociological and socio-medical unemployment and job insecurity covering the whole life course. This life course perspective allows a broad view of the variables involved in being able to implement sustainable career pathways.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops**Period: January 2020 – February 2022***Please note collaborations with other SCs, WHO, ILO and NGOs.***NOTE:** Do not repeat meetings and conferences already listed in this format in the Midterm Report**1) Business meeting:**

Venue: Online

Date: 8 April 2020

Number of attendees: 8

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**2) Business meeting:**



Venue: Online

Date: 20 May 2020

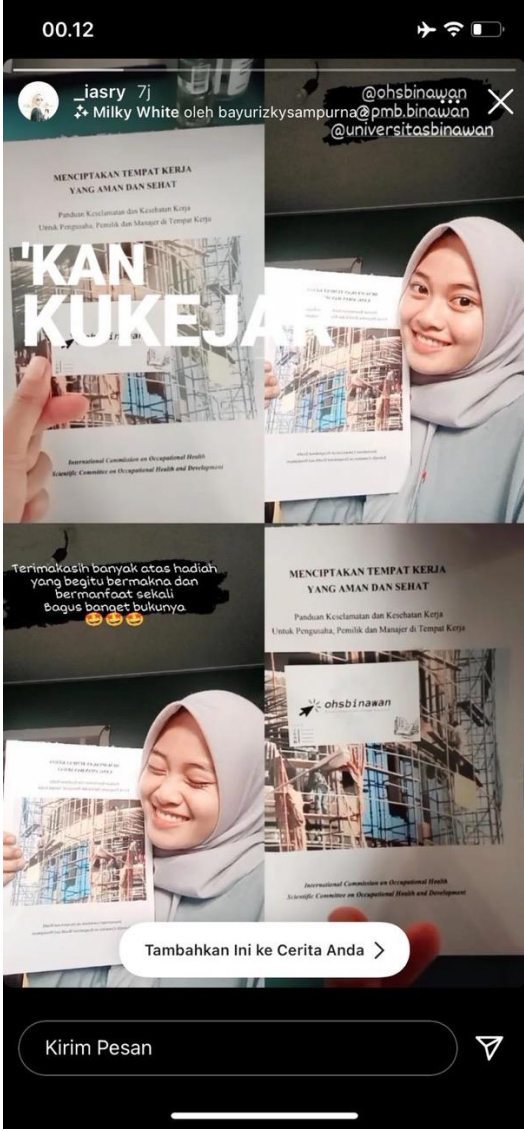
Number of attendees:

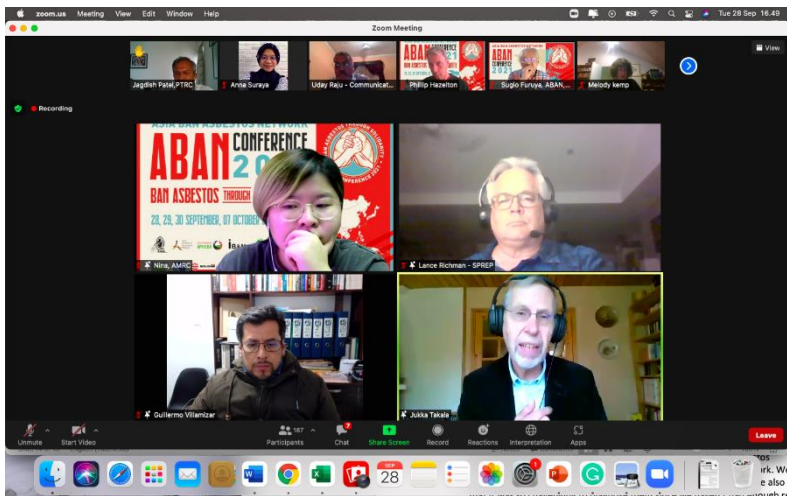
Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>):**Conferences, Seminars, Workshops, Courses, etc.:**

(1) Name of the event:	Virtual Launch of the book ' <i>Menciptakan Tempat Kerja Yang Aman dan Sehat</i> ', the translation into Bahasa Indonesian of the ICOH guidance book 'Creating a Safe and Healthy Workplace'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓
Date:	16 September 2020				
Venue:	Online				
Organizers:	SC UJIH, ICOH Occupational Safety and Health Study Programme, Binawan University, Indonesia				
Co-organizers and Collaborators: Please identify and describe roles.	Ms Claudina Nogueira, ICOH Vice President, delivered the opening address. Dr. Minha Rajput-Ray, Chair of SC UJIH, introduced the translation of the OSH guidance book as one of the SC UJIH programmes.				

	 
Number of participants:	400
Publication or provision of CD/DVD proceedings:	
Book of abstracts:	
Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	Successful. Representatives of the Ministries of Health and Labour of Indonesia, National Social Security Agency, and Indonesian Union workers conveyed positive feedback on the book and the launching.

(2) Name of the event:	National Seminar on the Role of Occupational Health and Safety in maintaining business sustainability during the pandemic					
Type of event (please check):	Conference	Seminar	Workshop	Course	Other	
		✓				
Date:	25 September 2021					
Venue:	Online					
Organizers:	Students OSH Study Programme, Binawan University, Indonesia					

	SC UJIH supported by providing 13 parts of the OSH guidance books as a souvenir for the top 10 outstanding participants and for three speakers
Co-organizers and Collaborators: Please identify and describe roles.	
Number of participants:	200
Publication or provision of CD/DVD proceedings:	
Book of abstracts:	
Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	Successful

(3) Name of the event:	Asian Ban Asbestos Networking Conference				
Type of event (please check):	Conference ✓	Seminar	Workshop	Course	Other
Date:	28-30 September 2021				
Venue:	Online				
Organizers:	Asia Ban Asbestos Network (ABAN)				
Co-organizers and Collaborators: Please identify and describe roles.	<p>Anna Suraya, on behalf of Indonesia Ban Asbestos Network, reported efforts and activities to bring information on asbestos and its health effect visible in Indonesia</p> <p>Jukka Takala, President: International Commission on Occupational Health (ICOH) presented 'Global asbestos disaster and vulnerabilities in the COVID era'</p> <p>Guillermo Villamizar, Director: Colombia Asbestos Free Foundation presented 'Tactics and lessons from Colombia Asbestos Ban'</p> 				
Number of participants:	200				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer					

reviewed journals:	
Assessment of success / impact:	Successful. The conference resulted in the 'Joint Resolution Asian Ban Asbestos'. The organiser proposed a Special Session about Asbestos Elimination in Asia for the ICOH2022 Congress.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines* and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)

1. Article publication in a peer review journal:

J Tamin, O Samuel, A Suraya, ID Ebuenyi, N Naicker, M Rajput-Ray. Vulnerable workers and COVID-19: Insights from a survey of members of the International Commission on Occupational Health. *International Journal of Environmental Research and Public Health* 18 (1), 346

2. Article publication in the ICOH Newsletter:

Ebuenyi, I.D.; Naicker, N.; Tamin, J.; Samuel, O.; Suraya, A.; Lappalainen, K.; Rajput-Ray, M. Occupational Health Community Perceptions: Impact of COVID-19 on Work and Employment. *ICOH Newsletter* 2020, 18. Available online: http://www.icohweb.org/site/pdf-viewer/viewer.asp?newsletter=icoh_newsletter_vol18_no2.pdf

3. Article publication in a peer review journal:

J Tamin (on behalf of SC UJIH). COVID-19 and vulnerable workers. *Occupational Medicine* 2021;71:161–164

4. Publishing the translation into Bahasa Indonesian of the ICOH guidance book 'Creating a Safe and Healthy Workplace':

Drs. Sahuri, SST.K3., MA, Dr. Anna Suraya, MKK, SpOk, Putri Winda Lestari, S.KM., M.Kes, Dr. Agung Cahyono Triwibowo, M.Si, Dr. Ade Dwi Lestari, M.Kes., SpOK, Uci Sulandari, M.Si, Husen, SST.K3., M.Si, Warendi, SKM., M.Kes, Yunita Sari Purba, SST.K3., MA, Lulus Suci Hendrawati, S.Kom, M.Si, Menciptakan Tempat Kerja Yang Aman Dan Sehat; Panduan Keselamatan dan Kesehatan Kerja Untuk Pengusaha, Pemilik, dan Manajer di Tempat Kerja. Rajawali Buana Pustaka, 2020 (*The translation of the guidance book 'Creating a Safe and Healthy Workplace - A Guide to Occupational Health and Safety for Entrepreneurs, Owners and Managers', sponsored by the International Commission on Occupational Health*).

5. Publishing a book 'Occupational Health Ethics: From theory to practice':

Dr Jacques Tamin, published by Springer, May 2020.
<https://link.springer.com/book/10.1007/978-3-030-47283-2>

The ICOH Code of Ethics sets out the important principles that guide occupational health practice. This book builds on these core principles, starting from an application of moral theories in the occupational health context and illustrating how ethical conflicts could be resolved, by carrying out ethical analyses of several case studies. In this way, it aims to link ethical theory to occupational health practice. In addition to traditional ethical approaches, it includes work done by the SC UJIH on analysing social justice in the context of vulnerable workers, using the capability approach.

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

- Workplace Health Without Borders (WHWB)-UK Branch teleconference meeting on 14 July 2020 - Dr Minha Rajput-Ray (Chair of SC UJIH) was invited to present 'Occupational Health Community Perceptions: Impact of COVID-19 on Work and Employment'

Workplace Health Without Borders, Virtual Meeting 14th July 2020

Occupational Health Community Perceptions: Impact of COVID-19 on Work and Employment

Ebuenyi ID,¹ Naicker N,² Tamin J,³ Samuel O,⁴ Suraya A,⁵ Lappalainen K,⁶ Rajput-Ray M⁷



- Workplace Health Without Borders (WHWB)-UK Branch teleconference meeting on 10 November 2020 - Dr Jacques Tamin (Member of SC UJIH) was invited to present 'Vulnerable workers and COVID-19: Insights from a survey of ICOH members'

Workplace Health Without Borders, WHWB-UK Zoom Teleconference 10th November 2020 Vulnerable workers and COVID-19: insights from a survey of ICOH members

Tamin J, Suraya A, Rajput-Ray M, Samuel O.



International Commission on Occupational Health
Founded in 1906 as Permanent Commission

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

A. Special Session organised by SC UJIH

Name of Coordinator: Dr Minha Rajput-Ray

Special Session title: SS 36 - Unemployment, Job Insecurity, and Health for Vulnerable Workers, pre-, during, and post-Pandemic

List of speakers and their presentation titles/topic

- Dr Minha Rajput Ray: Introduction of SC UJIH work during the pandemic
- Dr Jacques Tamin: Vulnerable Workers and COVID-19
- Dr Ikenna Ebuenyi: Impact of COVID-19 on work and employment
- Dr Anna Suraya: Intervention on OH during COVID-19 pandemic using the occupational health guide '*Creating a Safe and Healthy Workplace. A Guide to Occupational Health and Safety for Entrepreneurs, Owners, and Managers*'

B. Free Paper Session

Organiser and Chief Reviewer: Dr Minha Rajput-Ray

Assistant Organiser: Dr Anna Suraya

Reviewers: Dr Jacques Tamin (drjsftamin@hotmail.com), Dr Ikenna Ebuenyi (desiykee@yahoo.com), Professor Nisha Naicker (nishan@nioh.ac.za)

C. Business Meeting

Venue: Online

Date: 10 February 2022

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

To be decided after holding the SC UJIH business meeting on 10 February 2022

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

To be decided after holding the SC UJIH business meeting on 10 February 2022

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Asia Ban Asbestos Network (ABAN)

- Elimination of asbestos-related diseases in Asia
- SC UJIH will be involved in providing experts to assist ABAN activities

More to be decided after holding the SC UJIH business meeting on 10 February 2022.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

To be decided after holding the SC UJIH business meeting on 10 February 2022

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The SC UJIH started with a working membership of four people only (as a number of previous members had retired and left ICOH). The membership steadily progressed to nine members (as noted at the time of the ICOH2018 Congress in Dublin, Ireland).

Following a highly interactive scientific session in Dublin, and continued engagement – mainly via the use of a WhatsApp group, the SC UJIH has now had engagement from more than 20 members (via a combination of WhatsApp, e-mail and personal communications).

The SC UJIH personnel are working closely with the ICOH Secretariat and are in the process of fully updating the membership list as per members' good standing. Of notable mention is that the current membership covers all continents, and is cross-disciplinary in nature.

With limited resources, SC UJIH succeed in producing several publications. The translation of the ICOH guidance book on occupational health and safety into Bahasa Indonesian has facilitated Indonesian managers, owners, and entrepreneurs to be

exposed to, and become very aware of the need for good occupational health and safety practices in workplaces.

An article titled 'Occupational Health Community Perceptions: Impact of COVID-19 on Work and Employment' published in the ICOH Newsletter has provided ICOH members with more insight into the impact of COVID-19 on work and employment.

An article titled 'Vulnerable workers and COVID-19: Insights from a survey of members of the International Commission on Occupational Health' published in the International Journal of Environmental Research and Public Health has allowed a broader spectrum of the health community to acknowledge the issues faced by vulnerable workers during the COVID-19 pandemic.

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

	NAME	ORGANISATION	Country
1	Dr Minha Rajput-Ray m.rajput-ray@nnedpro.org.uk	NNedPro, Global Centre for Nutrition & Health	UK, Kenya, India
2	Dr Anna Suraya anna_suraya2005@yahoo.com	Binawan University, Jakarta	Indonesia, Germany
3	Prof Ellen MacEachen ellen.maceachen@uwaterloo.ca	University of Waterloo	Canada
4	Prof Vivian Aline Mininel vivian.aline@gmail.com	University São Carlos – Brazil	Brazil
5	Dr Kirsi Lappalainen Kirsi.lappalainen@ttl.fi kirsi.niiranen13@live.com	Finnish Institute of Occupational Health (FIOH), Occupational Health Nursing	Finland
6	Dr Helena Koren hkoren@hzzzsr.hr	Croatian Institute for Health Protection and Safety at Work	Croatia
7	Dr Jacques Tamin drjsftamin@hotmail.com	University of Manchester	UK

	Jacques.tamin@manchester.ac.uk		
8	Dr Titis Mariyamah titis.satya2@gmail.com	Chief Medical Officer SIPL, Indonesia Aeropolis Selatan C83, Legenda Wisata Cibubur, Bogor	Indonesia
9	Dr Nuri Purwito Adi npurwitoadi@gmail.com urin_id@yahoo.com	Faculty of Medicine, University of Indonesia Jl. Pegangsaan Timur No 16 Jakarta	Indonesia
10	Prof Nisha Naiker NishaN@nioh.ac.za	National Health Laboratory Services, National Institute for Occupational Health, Johannesburg	South Africa
11	Dr Ikenna Eduenyi desiykee@yahoo.com	Postdoctoral Researcher ALL (Assisting Living and Learning) Institute, Dept of Psychology, Maynooth University, Ireland	Nigeria, Ireland
12	Dr Milan Milosevic milan.milosevic@snz.hr	Andrija Stampar School of Public Health, Rockefellerova 4, 10000 Zagreb	Croatia
13	Prof Bjorgulf Claussen Bjorgulf.claussen@medisin.uio.no bjorgulf.claussen@samfunnsmed.uio.no	Social Security Medicine, University of Oslo	Norway
14	Prof Zhijun Zhou zjzhou@fudan.edu.cn	Dept of Occupational Health and Toxicology, School of Public Health, Fudan University	China
15	Prof Tsunetaka Matoba mtmatoba@gmail.com	1543-2 Araki-maki Araki Kurume-shi 830-0063	Japan
16	Prof Tatsuya Ishitake tishitak@med.kurume-u.ac.jp	Dept of Enviromental Medicine, Kurume University School of Medicine, 67 Asahi-Machi, Kurume 830	Japan
17	Dr Saeher A. Fatima Muzaffar saeherm@yahoo.com	2 Rio Court Burlingame, CA 94010	USA

18	Dr Marloes Vooijs i.m.vooijs@gmail.com	University of Amsterdam	Holland
19	Dr Katarina Kjellberg Katarina.kjellberg@ki.se	Karolinska Institute, Stockholm	Sweden
20	Dr Svetlana Solovieva Svetlana.solovieva@ttl.fi	Finnish Institute of Occupational Health (FIOH)	Finland
21	Dr Oluranti Samuel oluranti02samuel@gmail.com	Lagos State University	Nigeria, South Africa
22	Dr Kaisa Kirves Kaisa.kirves@ttl.fi	Finnish Institute of Occupational Health (FIOH)	Finland
23	Dr Yucel Demiral yucel.demiral@deu.edu.tr	Dokuz Eylul University Medical School, Dept of Public Health, Inciralti, 35340 – Izmir	Turkey
24	Prof Jukka Vuori Jukka.Vuori@ttl.fi	Finnish Institute of Occupational Health (FIOH), Topeliuksenkatu 41 a 00250 Helsinki	Finland
25	Prof Richard Price ricprice@umich.edu	Institute for Social Research 426 Thompson Street Michigan	USA
26	Prof Steffen Torp sst@usn.no	University of South Eastern Norway	Norway
27	Dr Mounia El Yamani elyamani.mounia@gmail.com	Head of Unit at Institut de Veille Sanitaire	France, Morocco
28	Dr Lelitasari Danukusumo lelita@4lifeindonesia.com	Founder of 4Life OHS Services & First Aid Care	Indonesia
29	Roland Blonk R.Blonk@arbeid.tno.nl roland.blonk@tno.nl	TNO Work and Employment PO Box 718 2130 AS Hoofddorp	Netherlands
30	Dr Jaana Vastamäki jaana.vastamaeki@wiso.uni- erlangen.de	Nuremberg University	Denmark
31	Özlem Ozkan ozlem.ozkan@kou.edu.tr	Karya Tekstil Turkey	Turkey

Members who left the SC since the submission of the SC Midterm Report:
Name: **Email address:**



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

5 December 2021

Submitted by SC:

Vibration and Noise (SC VN)

Name of Chair:

Renata Sisto

Year of Appointment:

2015

Email address:

r.sisto@inail.it

Name of Secretary:

Enrico Marchetti

Year of Appointment:

2018

Email address:

e.marchetti@inail.it

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication:

Focus and aim of the SC:

The Scientific Committee on Vibration and Noise (SC VN) is aimed at sharing knowledge and information relative to the exposure to noise and vibration in occupational settings. Although both these risk factors are well known and a large consensus does exist about the risk assessment and the exposure limits, many aspects of human exposure are still unclear and deserve research efforts.

If the single risk is quite well known, everything becomes much more difficult to be understood when one has to face complex scenarios in which multiple risks are simultaneously present and are possibly interacting with each other. The SC VN put its efforts into looking at the interaction between these two risk factors, noise and vibration, often acting simultaneously at the workplace. The concept of interaction was also extended to other very different risk agents that are known to have a synergistic interaction with noise and/or vibration. Attention was paid, for example, to the interaction between noise and ototoxic chemicals. A community of researchers working in this field, the interaction between noise and ototoxic/neurotoxic substances, gave their contributions in terms of scientific talks, presented at various ICOH Conferences, and illustrating the most prominent and innovative results.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Nil

Conferences, Seminars, Workshops, Courses, etc.:

Nil

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

During the worst period of the pandemic, SC VN focused on the most effective disinfection techniques.

Two newsletter articles were published:

- Perspectives and cautions in the use of germicidal UV radiation in the conjuncture of the SARS-CoV-2 pandemic

- Perspectives and cautions in using ozone as air and surface disinfectant in the conjuncture of SARS-CoV-2 pandemic

Two technical documents were shared with ICOH members:

- Preliminary indications for the use of UV germicidal irradiation in the conjuncture of the COVID-19 pandemic
- Preliminary indications for the use of ozone as air and surface disinfectant in the conjuncture of the COVID-19 pandemic

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Due to the pandemic and the need to convert the upcoming ICOH2022 Congress into a fully virtual format with space and time constraints, the initially proposed Free Paper

Sessions on Noise and Vibration were reduced to only one session. We received 14 abstract contributions for the Noise and Vibration Free Paper Session. Following the peer-review process, five contributions were chosen for oral presentations, i.e:

- Muscular fatigue as an effect of muscular synchronization in hand-arm vibration exposure
- Eardrum reflectance in healthy subjects exposed to noise and/or hand-arm vibration
- Comprehensive diagnostics of neurosensory disorders in hand-arm vibration syndrome (HAVS)
- Screening and prevalence of hearing loss in professional musicians
- Key factors influencing noise-induced hearing loss in the automobile manufacturing industry

The peer reviews of the abstracts for the Free Paper Session were performed by:
Renata Sisto, Enrico Marchetti, Angelo Tirabasso, Filippo Sanjust (INAIL)
Arturo Moleti (University of Rome Tor Vergata)
Marco Tarabini (Politecnico di Milano, Polo di Lecco)

A single Special Session was organised, titled 'SS 37 - Noise and ototoxicant exposure induced hearing loss: Surveillance, epidemiology and prevention'; five speakers were invited:

- Thais C. Morata - Recent collaborative initiatives to expedite progress in the risk assessment and management of ototoxic exposures at work
- Adrian Fuente - The effects of jet fuel exposure on the auditory system of air force personnel exposed to noise
- Chucris (Chuck) A. Kardous - Update of NIOSH Noise Exposure Guidelines
- Krystin Carlson - Hearing outcome analyses in mice and humans with exposures to mixtures of metals with noise
- Adriana Lacerda - Combined effects of low exposure levels of noise and solvents on hearing among printing workers

The Chair of the SC VN, Renata Sisto, invited the speakers, and collected and reviewed the scientific contributions.

Triennium 2022-2024 Planned business meetings, conferences, seminars:
(Provide event name, dates, location, if possible)

Nil

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:
(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

Nil

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

Nil

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

Nil

Any other points of relevance:

Nil

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

Nil

PART V - Evaluation of this SC Final Report form

☒ This form is acceptable

☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Title	First Name	Last Name	E-mail
Mrs	Grace Oluyemi	AKINTUNDE	erek@chevron.com yemmy_62@yahoo.com
Dr.	Mohan Gopal	ATERKAR	mohan.aterkar@ril.com
Prof.	Casper Johannes	BADENHORST	cas.badenhorst@angloamerican.com
Prof.	Igor Jesus	BELLO	ibello.medex@gmail.com
Ms	Yessica	BERNUY NEYRA	ybernuy@natclar.com.pe
Dr.	Larisa Vladimirovna	BOGACHEVA	bogacheva.larissa@rambler.ru
Prof.	Massimo	BOVENZI	bovenzi@units.it
Dr.	Anthony J.	BRAMMER	brammer@uchc.edu
Mrs	Angela Dawn	BUTKOVIC	Angiebconsulting@gmail.com Angela.Butkovic@wits.ac.za
Dr.	Carmen	CASANA	crc183@hotmail.com
Dr.	Sashikala	CHANDRASEKAR	sashishekar@hotmail.com
Prof.	Ta Yuan	CHANG	tychang@mail.cmu.edu.tw
Dr.	Reynaldo Eduardo	FRANCO NUNEZ	eddu_franco@hotmail.com
Dr.	Claudio	GUARNACCIA	cguarnaccia@unisa.it
Prof.	Mats	HAGBERG	mats.hagberg@amm.gu.se
Prof.	Seichi	HORIE	horie@med.uoeh-u.ac.jp
Prof.	Carel T.J.	HULSHOF	c.t.hulshof@amsterdamumc.nl
Prof.	Tatsuya	ISHITAKE	tishitak@med.kurume-u.ac.jp
Dr.	Xiuting	LI	shineleexiuting@qq.com
Prof.	Ronnie J.I.	LUNDSTRÖM	ronnie.lundstrom@vll.se
Dr.	Musa Nyandusi	LWEGADO	musanyandusi@gmail.com
Dr.	Enrico	MARCHETTI	e.marchetti@inail.it
Dr.	Elizabeth	MASTERSON	emasterson@cdc.gov
Dr.	Pietro	NATALETTI	p.nataletti@inail.it
Dr.	Madakeni Vusumuzi	NHLAPHO	vusumuzi.nhlapho@riotinto.com
Dr.	Tohr	NILSSON	Tohr.Nilsson@lvn.se
Dr.	Laura	OLIVER FERNANDEZ	oliverl@adinet.com.uy
Dr.	Darcy	PALOMINO	palominodarcy@gmail.com
Dr.	Jesus David	PALOMINO RODRIGUEZ	jesus_119h@hotmail.com
Mr.	Luiz Cesar	PRACA	luizcpraca@terra.com.br
Dr.	Addler	QUEZADA PALACIOS	quezadasteve@hotmail.com
Dr.	David	SANCHEZ CALLE	davsan82@hotmail.com
Prof.	Lyudmila M.	SAARKOPPEL	erisman-clinic@yandex.ru
Dr.	Yuka	SATO	yuka0503@med.kurume-u.ac.jp
Ms	Angelica	SIEW	angelica.ss.siew@gmail.com
Dr.	Renata	SISTO	r.sisto@inail.it
Dr.	Jukka	STARCK	jukka.starck@ttl.fi

Mr.	Olgac	TASYUREK	ottasyurek@gmail.com
Dr.	Nabyla	TITRI	nabyla.titri@gmail.com
Dr.	Esko	TOPPILA	esko.toppila@occuphealth.fi
Dr.	Maria Alejandra	URDAY PAREJA	alejandraup@hotmail.com
Dr.	Robert	WALINDER	robert.walinder@medsci.uu.se

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

3 December 2021

Submitted by Scientific Committee:

Women, Health and Work (SC WHW)

Name of Chair:

Professor Marcia Bandini MD SOH MScA

Year of Appointment:

2018

Email address:

marcia.bandini@icloud.com

Name of Secretary:

Professor Igor Bello, MOSH, MErg, PhD

Year of Appointment:

2015

Email address:

ibello.medex@gmail.com

presidencia@soveso.org.ve

SC Website URL: <http://www.icoh-scwhw.net>

Other SC Means of Communications: SC WHW Newsletter, ICOH Newsletter, E-meetings via ZOOM, face-to-face meetings, SC website

Focus and aims of Scientific Committee:

- Addressing issues that specifically affect women's health and wellbeing in developed and developing countries.

- Addressing occupational health and safety issues for women, particularly under certain special working conditions such as pregnancy, migration and hazardous exposures.
- Advancing health promotion for working women.
- Addressing issues concerning gender public policies, laws and regulations, and their application in different countries.
- Encouraging research, raising awareness, and promoting education of specialists
- Sharing information/networking with other groups on gender mainstreaming at work
- Working collaboratively with other ICOH Scientific Committees on the relevant issues aforementioned addressing issues that specifically affect women's health.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

Venue: Online Meeting

Date: Nov 26, 2021

Number of attendees: 5

Date report sent to VP (Please use Business Report form in SC Virtual Office at <http://www.icohweb.org/>): 3 December 2021

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	Seminar: 'Women workers and COVID-19: Looking at four issues that put their health at risk'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	4 March 2021				
Venue:	Webinar by ZOOM				
Organizers:	Ludwin-Maximilliam University (LMU), Munich, Germany Framework of webinar - 'Impact of COVID-19 on SDGs.'				
Co-organizers and Collaborators: Please	ICOH SC WHW – technical support				

identify and describe roles.	
Number of participants:	535
Publication or provision of CD/DVD proceedings:	Digitally recorded
Book of abstracts:	No
Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success:	Ludwin-Maximilliam University (LMU) has been conducting a series of very successful seminars on occupational health issues with guests, globally. This seminar tried to analyze the impact of a pandemic on the Sustainable Development Goals (SDGs), with a special focus on the SDGs related to health and work. On this occasion, the SC WHW collaborated with LMU to speak about the impact of the pandemic on working women. This seminar was one of the most watched on the LMU channel, and it still continues to receive many visits.

(2) Name of the event:	Seminar: 'Being a woman in the healthcare team during pandemic times'				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
		✓			
Date:	16 March 2021				
Venue:	Virtual Meeting by ZOOM				
Organizers:	Society of Occupational Medicine of the Province of Buenos Aires (SMTBA)				
Co-organizers and Collaborators: Please identify and describe roles.	ICOH SC WHW – technical support				
Number of participants:	231				
Publication or provision of CD/DVD proceedings:	Digitally				
Book of abstracts:	No				

Book of selected proceedings:	No
Special issue of peer reviewed journals:	No
Assessment of success:	Every year, the Society of Occupational Medicine of the Province of Buenos Aires (SMTBA) has organised scientific conferences on the subject of 'Women, Health and Work'. This year, 2021, three virtual conferences have been developed on different occasions: March, April and December. These events have been supported by the SC WHW SC and have addressed issues such as the challenges faced by women in the health sector (including psychosocial problems, infections, and musculoskeletal problems), women and healthy teleworking, and also a forum was included within the Annual Meeting of the SMTBA.

(2) Name of the event:	XVI Latin American Conference on Occupational Health - Panel on Women, Health & Work in Latin America: Challenges for working women in pandemic times				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Panel
Date:	13 October 2021				
Venue:	International Congress Center, San José - Costa Rica				
Organizers:	Latin American Association on Occupational Health (ALSO) ICOH SC on Women, Health and Work (SC WHW)				
Co-organizers and Collaborators: Please identify and describe roles.	PAHO, National Council on OH Costa Rica, Simon Bolivar University, Medical College of Costa Rica				
Number of participants:	425				
Publication or provision of CD/DVD proceedings:	Online				
Book of abstracts:	No				
Book of selected proceedings:	Hardcopy				
Special issue of peer	No				

reviewed journals:	
Assessment of success:	This conference was a regional event of global scope, whose organisation was directly supported by our SC WHW. We were the liaison for the meeting of officers of ICOH, and of National Secretaries of Latin America, managing to integrate ICOH in full with ALSO. The Panel on Women, Health and Work had the participation of four guests from ICOH, PAHO, and officials of the Government of Costa Rica, from which a call to action for equality and gender parity came out. During the conference there were six conferences with the participation of several members of the SC WHW. New members were recruited for ICOH and for our SC.

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

- Proceedings of the XVI Latin American Congress on Occupational Health, incorporating Panel on Women, Health & Work in Latin America: Challenges for working women in pandemic times (Cartegena de Indias, Colombia and San José, Costa Rica, respectively - 2021). Published by ALSO – video proceedings, various authors, hardcopy and electronic publications).
- Technical Note - Women workers and COVID-19: Looking at four issues that put their health at risk (Published in ICOH Newsletter Volume 18, No. 2 August 2020. Bello I.; Canova, K., electronic publication).
- SC WHW webpage publication and maintenance (<http://www.icoh-scwhw.net>)

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

- SC on Occupational Health for Health Workers (SC OHHW)
- ICOH Working Group on the Future of Decent Work

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- Report on the Pan American Forum on Public Policies on Occupational Health (PAHO)
- Workshop on HealthWISE, during International Joint Conference of the Scientific Committees on Occupational Health for Health Workers (SC OHHW) and Women, Health and Work (SC WHW)
- Support in other meetings of both WHO and ILO

Collaboration with non-ICOH organisations:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations other than conferences.)

- The Latin American Association on Occupational Health (ALSO)
- The American College of Occupational and Environmental Medicine (ACOEM)
- Hamburg University (Germany)
- The Venezuelan Society on Occupational Health (SOVESO)
- Society of Occupational Medicine of the Province of Buenos Aires (SMTBA), Argentina
- Ludwin-Maximilian University (LMU), Germany
- The Peruvian Society of Occupational Medicine (SOPESO)

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

- One SC WHW Business Meeting (to be held before the ICOH2022 Congress)
- One Free Paper Session on 'Women, Health and Work' - 25 abstracts accepted, peer-reviewed by four reviewers
- Two Special Sessions (7 presenters):
 - SS 20 – 'The other pandemic: Mental health issues facing health workers during the COVID-19 crisis' (Special Session organised in collaboration with SC OHHW)

- SS 38 – ‘New realities for the health of working women in the new normal’

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

- Conference on Occupational Health for African Health Workers - Casablanca, Morocco, 2022
- International Congress on Occupational Health for Health Workers - New York, USA, 2022
- Seminar on Women, Health and Work during the X Congress of Occupational Health for Central America and the Caribbean - Venezuela, 2023
- Symposium on Women, Health and Work during the ALSO Latin American Congress on Occupational Health - Santiago de Chile, 2023
- Other activities to be confirmed at SC WHW Business Meeting to be held in January 2022.

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- Conference on Occupational Health for African Health Workers - Casablanca, Morocco, 2022 *(in collaboration with the SC on Small-Scale Enterprises and the Informal Sector)*
- International Congress on Occupational Health for Health Workers - New York, USA, 2022 *(in collaboration with the SC on Occupational Health for Health Workers – SC OHHW)*

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

- ONU Women Workshop - Special Working Group ‘Women and Health’. Online, June 2022
- ILO LabAdminOSH Collaborative Report ‘Working women during the pandemic crisis’.

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

(Provide proposed title, authors, timeframe, publication vehicle, if possible.)

**Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

- Proceedings of planned conferences
- Publication of collaborative work with ILO and ‘ONU Women’

- ICOH Newsletter: Two brief articles about the SC WHW achievements during the triennium will be prepared and submitted for publication before ICOH2024 Congress
- SC WHW Newsletter: Updated numbers will be prepared for 2022 by the editor, Dr Julietta Rodriguez-Guzman
- New interface and new scientific content will be published on the SC WHW website.

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

The SC WHW has had an important impact in leading the scientific contribution in the theme of 'Women, Health and Work' in various important international events, with wide dissemination in the Latin American and European regions, providing important communications from opinion leaders and renowned researchers.

Our SC WHW has made every effort to put online on its own account and maintain the functioning of a website with operational information of the SC, published newspapers and other relevant scientific information on the subject of 'Women, Health and Work', being one of some webpages that point to this topic from a technical-scientific perspective.

Before the bans on travel and face-to-face conferences, our SC carried out very intense work of scientific dissemination, organising 11 activities (international fora and seminars) on public policy issues, the role of women in occupational health services and the job evaluation with a gender-sensitive vision, with the combined presence of almost 4 000 participants.

With the onset of the global crisis due to COVID-19, our activities focused on virtuality, collaborating with different institutions and universities to offer webinars, being pioneers of opinion on the issue of the impact of the pandemic on the health of working women. Our scientific article 'Working Women and COVID-19: Four issues that put their health at risk' was published (in technical note version) in the ICOH Newsletter and later published, translated and cited in more than 20 publications globally. During 2021, we organised several seminars in collaboration with highly positioned and highly attended international congresses in virtual format.

Collaboration with other ICOH SCs has been very fruitful. Collaboration with the SC on Occupational Health for Health Workers (SC OHHW) was very rewarding during the current triennium, with the Joint Conference planned for 2022 being the fourth continuous collaboration that we have had, and these joint events have been very successful and well attended.

The SC WHW has been collaborating during this triennium with other institutions, like:

- The International Ergonomics Association (IEA): We will continue to hold collaborative and cooperative activities with them and publish the outputs using the SC WHW Newsletter
- The International Occupational Hygiene Association (IOHA) and the Occupational Hygiene Associations of the Americas: Several meetings have been ongoing to exchange information and strengthen good practice in occupational hygiene
- Latin American Association of Occupational Health (ALSO): We organised a Seminar – ‘Women, Health and Work’ during the Latin American Congress on Occupational Health (2019). The ICOH President, Dr Jukka Takala, offered the opening address at the congress
- International Labour Organization (ILO): Collaboration to organize the HealthWISE Workshop at the Hamburg Conference in 2019
- Pan American Health Organization (PAHO): Report of the Pan American Conference on Occupational Health (Rio de Janeiro, Brazil, 2018). This event had a special focus on public policies in occupational health, particularly addressing gender, migrant workers, inequity, and statistic information standards. The reports were compiled into a summary document that formed the base for ‘The Rio Manifesto in Public Policies on Occupational Health’. This Manifesto is a key document that collates the strengths and weaknesses of occupational health public policies all over the continent with first-hand information provided by national occupational health associations, and structured under the guidelines of PAHO and ILO
- Other successful events held in the first part of the current triennium arose out of the SC WHW collaborations with, for example:
 - Panama National Association of Professionals in OSH
 - The Venezuelan Society on Occupational Health and the University of Carabobo (Venezuela)
 - The Peruvian Society on Occupational Health
 - The National Association of Occupational Medicine (ANAMT) and FUNDACENTRO (Brazil)
 - Central American and Caribbean Occupational Health Federation (FECACSO)

With many projects and experiences gained in this triennium, and increasing the participation of new female and male members interested in working on this subject, the SC WHW is leveraged in its origins to renew its plans and strategies in the future.

Finally, we would like to express our gratitude to the ICOH Officers for their unconditional and valuable support to our efforts to achieve these results.

Gallery of triennium activities of the SC WHW

Photographs supplied by Professor Igor Bello – Secretary: SC WHW



Presenters at the Forum discussion of the Central American and Caribbean Occupational Health Federation (FECACSO) - Panama, 2018



Public reading of 'The Rio Manifesto in Public Policies on Occupational Health'
(Rio de Janeiro, Brazil, 2018)



Pan American Policy Forum attendees (Rio de Janeiro, Brazil, 2018)



Professor Igor Bello (Secretary: SC WHW) presenting at the Seminar on
'Women, Health and Work' (San Juan, Puerto Rico, 2018)



Dr Julietta Rodriguez-Guzman facilitating at the Latin American Forum in Public Policies in Occupational Health (Cartagena, Colombia, 2019)



Special Day on the 'Protection of the Health of Working Women in Peru' (Lima, 2019)



Participants (ICOH Officers, Board Members and Leadership of SCs) of the ICOH Midterm Meeting (Rome, Italy, February 2020)

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

Country	Surname, Name	E-Mail
Argentina	1. Cobos, Myriam Rita	mporthoz@yahoo.com.ar
Argentina	2. Colautti, Maria Cecilia	mccolautti@gmail.com
Argentina	3. Pantano, Maria Cristina	pantano.cristina@gmail.com
Argentina	4. Salvatierra, Marian	mariansalvatierra@gmail.com
Argentina	5. Santoro, Nicolas	Santoro.nicolas@gmail.com
Argentina	6. Prado, Marta	martabprado@gmail.com
Argentina	7. De Hoyos, Claudia	dradehoyos@gmail.com
Australia	8. Shirangi, Adeleh	ashirangi@ichr.uwa.edu.au
Brazil	9. Bandinni, Marcia	Marcia.Bandini@alcoa.com.br
Chile	10. Herrera Moreno, Veronica	veherreram@gmail.com
Colombia	11. Archila Escorcía, Lelys	lelysa@hotmail.com
Colombia	12. Cabrera Videla, Ana Maria	acabreravidela@yahoo.com
Colombia	13. Espinosa Restrepo, Maria Teresa	espinosamaria@unbosque.edu.co materespinosa@yahoo.com
Colombia	14. Gallegos, Sandra	Sgallegos20@gmail.com
Colombia	15. Mejia, Doris	Doris.mejia@marsh.com domejia@une.net.co
Colombia	16. Moreno Díaz, Luis Ángel	lamordiaz@gmail.com

Country		Surname, Name	E-Mail
Colombia	17.	Padilla, Patricia	Patricia.padilla@gm.com Patripadilla@gmail.com
Colombia	18.	Piedrahita Hugo	hugopiedrahita@hotmail.com Hugo.Piedrahita@cerrejoncoal.com
Colombia	19.	Polo, Bertha Eugenia	Bertha.polo@gmail.com berthapolo@yahoo.com
Colombia	20.	Rodriguez-Guzman, Julietta	rodriguezjulietta@unbosque.edu.co
Colombia	21.	Velandia Bacca, Edgar	edgarvelandiab@hotmail.com
Finland	22.	Helaskoski, Eva	eva.helaskoski@ttl.fi
Finland	23.	Husgafvel-Pursiainen, Kirsti	kirsti.husgafvel-pursiainen@ttl.fi
Finland	24.	Karvala, Kirsi	Kirsi.karvala@ttl.fi
Finland	25.	Lindbohm, Marja	marja.liisa.lindbohm@ttl.fi
Finland	26.	Viikari-Juntura, Eira	eira.viikari-juntura@ttl.fi
France	27.	Poissonnet, Claude Michele	claudemichelle.poissonnet@interieur.gouv.fr
France	28.	Fanchette, Janine	jfanchette@prevor.com
Ghana	29.	Clarke, Edith	ochealth@ghana.com, essieclarke@yahoo.com
Greece	30.	Riza, Elena	eriza@med.uoa.gr
Italy	31.	Barbini, Norma	N.BARBINI@inrca.it
Italy	32.	Fano, Daniela	ergonomia@unimi.it
Lebanon	33.	Habib, Rima	Rima.habib@aub.edu.lb
Mexico	34.	Enriquez, Elia	eliaev@prodigy.net.mx
Netherlands	35.	Brand, Teus	T.Brand@amc.uva.nl
Netherlands	36.	Van Zanten-Przybysz, Iwona	iwona.vzp@online.nl ; info@iwonavanzanten.nl; i.vanzanten@hag.umcn.nl
Turkey	37.	Davas Akson H., Asli	asli.davas@ege.edu.tr
UK	38.	Radford, Jennifer	radfordej@globalnet.co.uk
USA	39.	Punnet, Laura	Laura_Punnett@uml.edu
USA	40.	Silverstein, Barbara	SILB235@LNI.WA.GOV
USA	41.	Fingerhut, Marilyn	mfingerhut@cdc.gov

Country	Surname, Name	E-Mail
USA	42. Rogers, Bonnie	rogersb@email.unc.edu
USA	43. Lavoie, Marie-Claude	marieclavoie@gmail.com
Venezuela	44. Rojas Martini, Maritza	rojasmartini@gmail.com
Costa Rica	45. Gómez Sánchez, Viviana	vivigo05@yahoo.com
Guatemala	46. García, Luis Roberto	drluisgarcia29@yahoo.com
USA	47. Rocheleau, Carissa	ike9@cdc.gov
Venezuela	48. Bello, Igor	ibello.medex@gmail.com
Italy	49. Foddìs, Rudy	rudy.foddìs@med.unipi.it
Italy	50. Bonfiglioli, Roberta	roberta.bonfiglioli@unibo.it
France	51. Nourry, Nathalie	nathalie.nourry@chru-strasbourg.fr
Kenya	52. Makokha, Winnie	winniemakokha@gmail.com
Marrakesh	53. El Kholti, Rim	rim.kholti@gmail.com
Peru	54. Canova, Karla	karla.canova@laborasac.com
Venezuela	55. Lobo, Oscar	olobomujica@gmail.com
Dominican Republic	56. Garcia, Mercedes	olobomujica@gmail.com
China	57. Li, Xiuting	shineleexiuting@qq.com
Chile	58. Acevedo, Miguel	macevedo@ucsh.cl
Spain	59. De Diego, Rocío	rdediego2@us.es
South Africa	60. Vizzer, Joan	joan@occucare.co.za
Canada	61. Lippel, Katherine	klippel@uottawa.ca

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



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Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date: *Note from ICOH VP – No report received by 30 December 2021*

Submitted by SC: Work and Vision (SC WV)

Name of Chair:

Year of Appointment:

Email address:

Name of Secretary:

Year of Appointment:

Email address:

SC Website URL (if available):

Other SC Means of Communication:

Focus and aim of the SC:



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Vice President: Claudina Nogueira claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General icoh@inail.it

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Date: 4 November 2021
Submitted by SC: Work Disability Prevention and Integration
(SC WDPI)

Name of Chair: Johannes R. 'Han' Anema
Year of Appointment: 2015
Email address: h.anema@vumc.nl

Name of Secretary: William S. Shaw
Year of Appointment: 2015
Email address: wshaw@uchc.edu

SC Website URL: <http://www.icohweb.org/site/scientific-committee-detail.asp?sc=8>
Also, <https://www.wdpi.net>

Other SC Means of Communication:
Email listing of members and Yahoo Group

Focus and aim of the SC:

- To be a forum for scientific and professional knowledge exchange in the field of work disability prevention and integration, addressing issues in both developed as well as developing countries.
- To address work disability prevention and management that impact labour market entry, work re-entry, work retention, and career advancement.
- To promote scientific and professional advancement of optimal methods to promote work participation and work ability of workers with a range of health conditions and work situations.
- To highlight the complexity of stay-at-work and return-to-work through a transdisciplinary and evidence-based perspective, in particular: individual, workplace, and other determining factors, effective prevention and rehabilitation practices, personal, social, legal, and cultural aspects.

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

None

Conferences, Seminars, Workshops, Courses, etc.:

None

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

NOTE: Please do not repeat information already provided in the Midterm Report.

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

None

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

None

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

- We have a single Special Session planned for the ICOH2022 Congress, as follows:

SS 40 – ‘Engaging workplaces in mental illness-related disability prevention’
Speakers:
1 - Evelien Brouwers - Workplace mental health stigma as a barrier to sustainable employment
2 - Carolyn S. Dewa - Beyond Awareness: Teaching Skills to Effectively Support Mental Health in a Non-Traditional Workplace
3 - Margot Joosen - Focus on Work Values in Healthcare: An intervention study to strengthen the wellbeing, mental health and employability in healthcare professionals
4 - Karen Nieuwenhuijsen - Prevention of mental health problems in healthcare workers: From a randomized controlled trial to the implementation in workplaces
- We have a single Free Paper Session planned for the ICOH2022 Congress.
Abstract review is underway to choose presentations, and there are 12 abstract reviewers.

Triennium 2022-2024 Planned business meetings, conferences, seminars:
(Provide event name, dates, location, if possible)

- We have tentative plans to hold a (virtual) business meeting for our SC during the ICOH2022 Congress, but the date and time have not been set

Triennium 2022-2024 Planned business meetings, conferences, seminars:
(Provide event name, dates, location, if possible)

None

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:
(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:
(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)

None

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:
(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)

None

Any other points of relevance:

The SC WDPI includes a 7-member Executive Committee that provides consultation and guidance to the Chair and Secretary on an as-needed basis. The initially elected members of the Executive Committee include Cécile Boot (Netherlands), Karen Nieuwenhuijsen (Netherlands), Alex Collie (Australia), Mette Jensen-Stochkendahl (Denmark), Cristiane Gallasch (Brazil), Angela de Boer (Netherlands), and Tessa Keegel (Australia). The Executive Committee held its first conference call in April 2017.

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

Work disability is a growing problem in many industrialized and developing countries. An aging workforce, increasing prevalence of chronic health conditions, and difficulties related to job accommodation have all contributed to a rapidly growing proportion of workers who become permanently disabled. Thus, understanding clinical, workplace, and policy issues in the prevention of work disability is an important goal in occupational health.

The ICOH Scientific Committee on Work Disability Prevention and Integration (SC WDPI) was established in 2006 as a reincarnation of the previous Scientific Committee on Handicap and Work created at the Nice Triennial IOCH Congress meeting in 1993. Since 2006, officers of the SC WDPI have included Patrick Loisel (Canada), Glenn Pransky (USA), 'Han' Anema (Netherlands), and William Shaw (USA). The primary function of the SC since 2006 has been to host and organize a biennial international conference focusing on the scientific study and practice of work disability prevention. The conferences have attracted from 200 to 300 attendees, and the 3-day conferences have included a scientific programme of more than 200 scientific presentations in the form of posters, symposia, workshops, podium presentations, or keynote addresses. Some of the catalysts for this conference series was a 3-year postgraduate training programme in work disability prevention (funded by the Canadian Institute of Health Research [CIHR] and hosted at Sherbrooke University in Montreal, later at the University of Toronto) that had established from 2006 to 2015 an international network of academic researchers and students interested in the topic of work disability. The transdisciplinary and international nature of this CIHR-funded training programme has produced a very diverse community of interested researchers and practitioners spanning many disciplines and across many countries. At the most recent conference, 28 countries were represented among conference attendees. Recently this course has been adapted and continued in Europe by the Nordic Institute for Advanced Training in Occupational Health (NIVA). The latter is an education institute funded by the Nordic Council of Ministers, the forum for Nordic governmental cooperation.

The SC WDPI held its 5th biennial conference on 5-7 June, 2019. The meeting was held in Odense, Denmark and hosted locally by researchers at the University of Southern Denmark and their governmental colleagues at the Danish National Centre for the Working Environment. The local organising committee included Mette Stochkendahl, Jan Hartvigsen, Merete Labriola, Karen Søgard, Andreas Holtermann, Kirsten Jürgensen, Paul Anker Lund, and Jette Tromborg. The international advisory committee included William Shaw (USA), J.R. 'Han' Anema (Netherlands), Cécile Boot (Netherlands), Karen Nieuwenhuijsen (Netherlands), Alex Collie (Australia), Mette Stockhendahl (Denmark), Cristiane Gallasch (Brazil), Angela de Boer (Netherlands), and Tessa Keegel

(Australia). The meeting was well attended (205 attendees from 24 countries) and the five keynote speakers were excellent: Katherine Lippel (Canada), Ute Bültmann (Netherlands), Maria Melchior (France), Lars Louis Andersen (Denmark), and Allard J. van der Beek (Netherlands). As part of the conference, a business meeting of the SC WDPI was held, and minutes from the meeting have been forwarded to the ICOH Vice President and Secretariat. Conference attendees were from the following countries (in descending order of number of attendees): Netherlands (42), Denmark (40), Canada (31), Norway (20), Brazil (11), Australia (10), USA (8), Germany (8), Sweden (8), Finland (5), France (5), Switzerland (4), Colombia (3), South Korea (2), Hong Kong (2), Iceland (2), United Kingdom (1), Taiwan (1), Spain (1), Japan (1), Malaysia (1), Indonesia (1), Djibouti (1), and Belgium (1). Topics of presentation were diverse, including disability related to musculoskeletal disorders, mental health, cancer, cognitive dysfunction, and chronic health conditions. Risk factors, interventions, socio-political challenges, ethics, and employer policies were common areas of study.

The Executive Committee had begun to plan the next SC WDPI international conference to take place in Brazil in 2023, but the COVID-19 pandemic interfered with those plans, and the next conference date and venue are still pending. Another future location may be Norway. Plans for the SC WDPI in the future are to create more formal liaisons with other related SCs, to populate the SC website with more detailed information, and to consider the sponsorship of future publications and position papers.

In terms of conference planning, the SC WDPI hopes to continue fostering students and early career scientists to participate in the conference, to promote geographic and disciplinary diversity, and to strive for excellence in conference presentations and activities.

Another goal is to increase ICOH membership by attracting emerging scientists and practitioners in this field of expertise and knowledge. Now that the SC WDPI has gained some momentum through a series of international conferences, we hope to continue to mature as an organisation by expanding leadership responsibilities and considering other on-going activities that could be organised to continue dialogue and discussion between biennial conferences.

We have great expectations that this SC will continue to add a new and growing dimension to the ICOH organisation and will help to foster scientific knowledge and best practices to prevent unnecessary disability and suffering among workers across the world.

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members**Name:****Email address:**

Dr. Benjamin Cleveland	AMICK	bamickii@fiu.edu
Dr. Johannes Regnerus	ANEMA	h.anema@vumc.nl
Dr. Cécile R.	BOOT	crl.boot@vumc.nl
Dr. Alex	BURDORF	a.burdorf@erasmusmc.nl
Dr. Katia Maciel	COSTA-BLACK	katia.black@ergonomia.com
Dr. Rupali	DAS	rupali@flash.net
Dr. Angela	DE BOER	a.g.deboer@amc.uva.nl
Dr. Raquel	DE SOUZA CORREA	dra.rscorrea@icloud.com
Dr. Bradley Alan	EVANOFF	bevanoff@dom.wustl.edu
Prof. Julia	FAUCETT	julia.faucett@nursing.ucsf.edu
Dr. Almahir	FERDOUS	roktokorobi@hotmail.com
Dr. Brigitte	FRONEBERG	brigitte.froneberg@gmail.com
Dr. Facundo Matias	GASPOZ	facundogaspoz@gmail.com
Dr. Per	GUSTAVSSON	per.gustavsson@ki.se
Dr. Kurt	HEGMANN	Kurt.Hegmann@hsc.utah.edu
Prof. Christer	HOGSTEDT	christer.hogstedt@gmail.com
Prof. Carel T.J.	HULSHOF	c.t.hulshof@amsterdamumc.nl
Ms Raija M.	ILMARINEN	raija.ilmarinen@ttl.fi
Dr. Olga	ISHTERYAKOVA	olga-ishteryakova2011@yandex.ru
Dr. Karen	JACOBS	kjacobs@bu.edu
Dr. Piet J.	KROON	kroonconsult@xs4all.nl
Prof. Patrick	LOISEL	patrick.loisel@utoronto.ca
Dr. Ellen	MACEACHEN	ellen.maceachen@uwaterloo.ca
Dr. Nicole	MAJERY	nicole.majery@stm.lu
Mr. Kenneth Ramon Joe	MASON	kenjoemason@gmail.com
Dr. Robert Keene	MCLELLAN	robert.k.mclellan@dartmouth.edu
Ms Vivian Aline	MININEL	vivian.aline@gmail.com
Ms Susan Elizabeth	PETERS	sepeters@hsph.harvard.edu
Dr. Elisabeta	PLETEA	elisabeta.pletea@stm.lu
Prof. Glenn S.	PRANSKY	gpranskymd@gmail.com
Prof. Laura	PUNNETT	laura_punnett@uml.edu
Prof. Jorma	RANTANEN	jorma.h.rantanen@gmail.com
Dr. Andrei Viktorovich	RIKUNOV	Rikunov.AV@gazprom-neft.ru
Dr. Lesley	RUSHTON	l.rushton@imperial.ac.uk
Prof. Eduardo Costa	SA	odraudeatsocas@ig.com.br
Dr. Tateishi	SEIICHIRO	tateishi@med.uoeh-u.ac.jp
Prof. Harry S	SHANNON	shannon@master.ca
Dr. William Stanley	SHAW	wshaw@uchc.edu
Prof. João Silvestre	SILVA JR.	silvajunior.js@gmail.com
Dr. Kevin L.	TRANGLE	ktriangle@mdimex.com
Prof. Harri Uolevi	VAINIO	harri.uolevi.vainio@gmail.com

Ms	Catherine	VAN NIEKERK	catherine@sentinel.za.com
Dr.	Jos H.A.M.	VERBEEK	jos@jverbeek.eu
Prof.	Peter J.M.	WESTERHOLM	peter.westerholm@medsci.uu.se

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:

Katherine Lippel (deceased)
Philippe Mairiaux

klippel@uottawa.ca
ph.mairiaux@ulg.ac.be



**ICOH 2018-2022 TRIENNIUM
SCIENTIFIC COMMITTEE FINAL REPORT
Covering the period January 2020 – February 2022**

ICOH is using an identical format for the Scientific Committee (SC) Midterm and Final Reports. Each covers a specified timeframe. Please do not repeat Midterm Report detailed information covering the first half of the Triennium. Please DO enter information on the activities and products identified in the Midterm Report as planned for this period.

The SC Final Report covers the period January 2020 – February 2022.

Please submit it no later than October 24, 2021 to:

Vice President: Claudina Nogueira

claudinanogueira@hotmail.com

cmcanogueira@gmail.com

Secretariat General

icoh@inail.it

The SC Final Report will be maintained on the ICOH SC Virtual Office webpage. It will be used in combination with the SC Midterm Report by the Vice President to prepare and print the SCs Triennium Report for the ICOH 2022 Congress. Please be prompt in submitting the Final Report by October 24, 2021.

Date:

27 October 2021

Submitted by SC:

Work Organisation and Psychosocial Factors
(SC WOPS)

Name of Chair:

Professor Akihito Shimazu

Year of Appointment:

2018

Email address:

ashimazu-tky@umin.ac.jp

Name of Secretary:

Dr Tessa Bailey

Year of Appointment:

2018

Email address:

tessa.bailey@pscip.com.au

SC Website URL (if available): Webpage on ICOH website only

Other SC Means of Communication: Email, webinar

Focus and aim of the SC:

The Scientific Committee on Work Organisation and Psychosocial Factors (SC WOPS) aims to promote awareness, research and education, to disseminate good practices, and to influence policy development in the area of work organisation and psychosocial factors. Psychosocial factors concern aspects of work organisation, design and management. If managed well they can lead to individual, organisational and societal

well-being and sustainability. However, in the opposite scenario, they may have negative impact at these three levels.

Our SC has contributed to the development of key policies, research, guidance and standards in this area for the European Commission, the European Agency for Safety and Health at Work (EU-OSHA), the World Health Organization (WHO), and the International Labour Organization (ILO).

PART I – ACTIVITIES: Business meetings, Conferences, Seminars and Workshops

Period: January 2020 – February 2022

Please note collaborations with other SCs, WHO, ILO and NGOs.

NOTE: Do not repeat meetings and conferences already listed in this format in the Midterm Report

1) Business meeting:

None

Conferences, Seminars, Workshops, Courses, etc.:

(1) Name of the event:	ICOH-WOPS Webinar (1) Working from home in times of COVID-19: Line care in the workplace under COVID-19 in Japan				
Type of event (please check) :	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	Monday, 19 April 2021				
Venue:	Online webinar				
Organizers:	ICOH Scientific Committee on Work Organisation and Psychosocial Factors (SC WOPS)				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	32				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					

Book of selected proceedings:	
Special issue of peer reviewed journals:	
Assessment of success / impact:	Organiser and Chair - Akihito Shimazu Speaker - Hisashi Eguchi Discussants - Jan de Jonge, Denise Minnie

(2) Name of the event:	ICOH-WOPS Webinar (2) The SARS-CoV-2 pandemic (¿syndemia?): Exponential inequality in the social determination of a global disaster				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	Wednesday, 23 June 2021				
Venue:	Online webinar				
Organizers:	ICOH Scientific Committee on Work Organisation and Psychosocial Factors (SC WOPS)				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	About 20 members				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:	Organiser - Tânia Araujo Chair - Frida Fischer Speaker - Jaime Breilh Discussant - Johannes Siegrist				

(3) Name of the event:	ICOH-WOPS Webinar (3) Psychosocial health risks and policy responses during the COVID-19 pandemic: The case of Taiwan				
Type of event (please check):	Conference	Seminar	Workshop	Course	Other
					✓ Webinar
Date:	Thursday, 9 September 2021				
Venue:	Online webinar				
Organizers:	ICOH Scientific Committee on Work Organisation and Psychosocial Factors (SC WOPS)				
Co-organizers and Collaborators: Please identify and describe roles.					
Number of participants:	12				
Publication or provision of CD/DVD proceedings:					
Book of abstracts:					
Book of selected proceedings:					
Special issue of peer reviewed journals:					
Assessment of success / impact:	Organiser and Chair - Michael Ertel Speaker - Yawen Cheng Discussants - Akizumi Tsutsumi, Tessa Bailey				

PART II - SC PRODUCTS AND COLLABORATIONS

Period: January 2020 – February 2022

***NOTE:** Please do not repeat information already provided in the Midterm Report.*

Publications, Proceedings, Guidelines*, Position Papers*, etc.

(Provide title, authors, full citation. SCs are encouraged to produce ICOH Guidelines and Position Papers*. *Guidelines and Position Papers must be approved by the ICOH SC Vice Presidents, Secretary General and President.)*

None

Collaborative activities with other ICOH SCs:

(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each SC. Provide relevant details of other collaborations with SCs.)

None

Participation and support to WHO – ILO meetings and/or publications:

(If collaboration in a Conference not listed above, provide event name, dates, location and role of each participating organisation. Provide relevant details of other collaborations with WHO and/or ILO.)

- Members of ICOH SC WOPS are currently working with the ILO on an international audit of national policy frameworks relevant to work-related psychological health and for protection against workplace psychosocial hazards

Collaboration with non-ICOH organisations:

*(If collaboration in a Conference not listed above, provide event name, dates, location, name and role of each participating organisation. Provide relevant details of collaborations **other than** conferences.)*

- ICOH SC WOPS members have supported and participated in the 2nd Conference of the Asia Pacific Academy for Psychosocial Factors at Work, 27 to 30 July, 2021 (Online). Keynotes and other presentations were given, among others, by Maureen Dollard, Peter Schnall and Michael Ertel.
https://www.apapfaw.org/uploads/7/4/9/8/74980261/conference_booklet_24.7.2021.pdf
- ICOH SC WOPS members also supported promotion and attended the Asia Pacific Academy for Psychosocial Factors at Work (APA PFAW) Kuala Lumpur Conference held in July 2021.
- ICOH SC WOPS members also have supported and participated in the 2021 Work, Stress and Health Virtual Conference <https://www.apa.org/wsh/2021-virtual> Peter Schnall and Michael Ertel gave presentations in the curated paper session 'Crisis in the workplace: Labor's Response to COVID 19 – Work Organisation, Occupational Stress, and Health Outcomes'.
- ICOH SC WOPS members are working with the Asia Pacific Academy for Psychosocial Factors at Work (APA PFAW) and Psychosocial Safety Climate Global Observatory (PSC GO) to collect national level data on PSC across the Asia Pacific and beyond.

Any other points of relevance:

None

PART III - SC PLANS for the ICOH2022 Congress and for the next Triennium 2022-2024

Planned Scientific Contributions to the ICOH2022 Congress:

*(Provide information about new contributions **not already listed** in the SC Midterm Report. Be specific: List title of scientific sessions, speakers, abstract reviewers, business meeting, etc.)*

Two Special Sessions:

- SS 41 – ‘Policy approaches to psychosocial risks at work’, organised by Stavroula Leka.
- SS42 – ‘Recovering from work - What to do (and not to) during off-job times?’, organised by Akihito Shimazu and Masaya Takahashi in collaboration with the SC on Shiftwork and Working Time.

Two Free Paper Sessions on ‘Work Organisation and Psychosocial Factors’

- Abstract reviewers - Akihito Shimazu (Japan), Tessa Bailey (Australia), Hisashi Eguchi (Japan), Maureen Dollard (Australia), Tânia Maria de Araújo (Brazil), João Silvestre Silva-Junior (Brazil), Rosane Griep (Brazil), Frida Fischer (Brazil), Quentin Durand-Moreau (Canada), Jorge Munoz (France), David Lucas (France), Michael Ertel (Germany), Michelle Bester (South Africa), Penny Orton (South Africa), Thandi Khumalo (South Africa), Valencia Benjamin (South Africa), Amy Zadow (Australia), Awang Idris (Malaysia), Mikaela Owen (Australia), Louis Patry (Canada), and Marie-Laure Durand-Hemery (Canada).

Triennium 2022-2024 Planned business meetings, conferences, seminars:

(Provide event name, dates, location, if possible)

None

Triennium 2022-2024 Planned collaborative activities with other ICOH SCs:

(Provide event name, dates, location, collaborating SCs and role of each SC. Provide relevant details of other collaborations with SCs.)

- ICOH SC WOPS members will support and participate in the ICOH SC Shiftwork and Working Time Congress 2022 (Forthcoming)

Triennium 2022-2024 Planned collaborative activities with other (non-ICOH) organisations:

*(Provide name of non-ICOH organisation, proposed event name, dates, location and role of the SC. Provide relevant details of collaborations **other than** conferences.)*

None

Triennium 2022-2024 Planned Publications, Guidelines*, Position Papers*, etc.:

*(Provide proposed title, authors, timeframe, publication vehicle, if possible. *Guidelines and Position Papers must be approved before publication by the ICOH Vice Presidents, Secretary General and President.)*

None

Any other points of relevance:

None

PART IV - Assessment of Success of the SC and Impact on Global Occupational Health

ICOH aims to understand and share widely the value and impact of the work of the SCs on improving global occupational health. Please review the SC activities of this Triennium 2018-2022 and provide an assessment of the SC outputs.

SC Final Report:

*(Please assess the success of the SC and its influence in improving global occupational health as a result of the work **during** the current Triennium. You may want to note anticipated impact. Give examples where possible.)*

Our SC has contributed to the development of key policies, research, guidance and standards in this area for the European Commission, the European Agency for Safety and Health at Work (EU-OSHA), the World Health Organization (WHO), and the International Labour Organization (ILO).

ICOH SC WOPS maintains close collaboration with other ICOH SCs, in particular Cardiology in Occupational Health; Ageing and Work; Musculoskeletal Disorders; Occupational Health and Development; Unemployment, Job Insecurity and Health; Women, Health and Work; Neurotoxicology and Psychophysiology; and Shiftwork and Working Time.

ICOH SC WOPS has also established collaboration in the area of psychosocial factors at work with WHO, ILO, the European Academy of Occupational Health Psychology (EAOHP), the Society for Occupational Health Psychology (SOHP), the Asia Pacific Academy for Psychosocial Factors at Work (APA PFAW), the Latin American Research

Network of Researchers on Psychosocial Factors at Work (RIFAPT), and the Ibero-American Network for Work-related Psychosocial Risks (RIPSOL).

PART V - Evaluation of this SC Final Report form

- ☒ This form is acceptable
☐ This form should be changed. Please recommend changes for improvement.

PART VI – List the Members of the SC or attach a separate file with the list (provide full name and email address of all members)

SC Members

Name:

Email address:

First Name	Last Name	E-mail
Leonardo	AGUIRRE ARANIBAR	leo.aguirre.a@gmail.com
Fernando Luis	ARIAS GALICIA	ariasgalicia1969@prodigy.net.mx
Sara	ARPHORN	phsao@mahidol.ac.th
Tessa Susanna	BAILEY	Tessa.Bailey@unisa.edu.au
Marcia	BANDINI	marcia.bandini@icloud.com
Michelle	BESTER	michelle.bester@bombelaop.co.za
Tanka Prasad	BHATTARAI	tankapd@yahoo.com
Cécile R.	BOOT	crl.boot@vumc.nl
Maria Claudia	BORDA GALLON	borda.mc@pg.com
Lutgart	BRAECKMAN	lutgart.braeckman@ugent.be
Karin Rita	BURKHARDT	workstyle@mweb.com.na
Fernanda	CABRAL SCHVEITZER	feschveitzer@gmail.com
José Luis	CALDERON MAFUD	jose Luis.calderonmafud@gmail.com
Anabel	CAMACHO-AVILA	mtra.anabel.camacho@gmail.com
Carlo	CAPONECCHIA	carloc@unsw.edu.au
Leonor Alicia	CEDILLO	leonor_cedillo@yahoo.com
Yawen	CHENG	ycheng@ntu.edu.tw
Wai Fung	CHEUNG	mail@michaelhk.com
Els	CLAYS	els.clays@UGent.be
Miguel Ricardo	COLI SALAS	drmiguelcoli@gmail.com
Charles Austin	CROPPER	cropper@acm.org
Rada Kamil	DAGHER	radadagher@yahoo.com
Junming	DAI	jmdai@shmu.edu.cn

Tania	DE ARAUJO	araujo.tania@uefs.br
Jan	DE JONGE	j.d.jonge@tue.nl
Annamaria	DE LUCA	anna.deluca@rfi.it
Rodrigo Bornhausen	DEMARCH	rodrigo.demarch@me.com
John Jason	DEVEREUX	jjdlia@yahoo.co.uk
Maureen	DOLLARD	maureen.dollard@unisa.edu.au
Quentin	DURAND-MOREAU	qu.durand@gmail.com
Kerstin A E	EKBERG	kerstin.ekberg@liv.su
Ahmed Mohamed	EL MAKATY	ahmed.elmakaty@outlook.com
Michael	ERTEL	ertel.michael@baua.bund.de
Ruddy Cesar	FACCI	ruddy@insatnet.com.br
Frida Marina	FISCHER	fischer.frida@gmail.com
David	GOLD	david.gold@gold-knecht.com
Seunghon	HAM	tonyham@snu.ac.kr
Takashi	HARATANI	haratani@h.jniosh.johas.go.jp
Hans Martin	HASSELHORN	hasselhorn@uni-wuppertal.de
Marcela Paz	HENRIQUEZ CABALLERO	henriquez.marcela@gmail.com
Yui	HIDAKA	yuihidaka-ky@umin.ac.jp
Irene Lydia	HOUTMAN	Irene.Houtman@tno.nl
Jan Lucas	HOVING	j.l.hoving@amc.uva.nl
Vishnumohan	JANARDHANAM	vishnumohan.jan@gmail.com
Arturo	JUAREZ GARCIA	arturojuarezg@hotmail.com
Girish Varadaraju	KALMADY	gvkalmady@gmail.com
Norito	KAWAKAMI	kawakami@m.u-tokyo.ac.jp
Dae Seong	KIM	daisui@naver.com
Inah	KIM	inahkim@hanyang.ac.kr
Sang-Baek	KOH	kohhj@yonsei.ac.kr
Evelyn	KORTUM	evelyn_kortum@yahoo.com
Alkinoi	KRIKELLA	akrikella@hotmail.com
Stavroula	LEKA	Stavroula.Leka@ucc.ie
François-Xavier	LESAGE	fxlesage@chu-reims.fr
Jian	LI	lijian1974@hotmail.com
Hsi-chen	LIU	d05848010@ntu.edu.tw
Don Eliseo	LUCERO-PRISNO III	donprisno@hotmail.com
Andréa	LUZ	andrealuz@usp.br aaluz.andrea@gmail.com
Wendy Anne	MACDONALD	W.Macdonald@latrobe.edu.au

Santiago	MAFFIA BIZZOZERO	smaffia@gmail.com
Ieva	MALINAUSKAITE	ieva.joana@gmail.com
Vilija	MALINAUSKIENE	vilija15@hotmail.com
Fernando Akio	MARIYA	mariya.f@pg.com
Begona	MARTINEZ-JARRETA	mjarreta@unizar.es
Kenneth Ramon Joe	MASON	kenjoemason@gmail.com
Horst	MAYER	eyes-at-work@web.de
Stanley Mwangi	MBATHA	smbatha57@yahoo.com
Robert Keene	MCLELLAN	robert.k.mclellan@dartmouth.edu
Maritta Tarja-Liisa	METSO	maritta.metso@fimnet.fi
Helena	MIRANDA	Helena.Miranda@ttl.fi
Taurai	MTETWA	mtetwa2@gmail.com
Jennifer	NAPIER	jenny@jennifernapier.com
Olesja	NEDIC	nedic_o@yahoo.com
Martin Lindhardt	NIELSEN	Martin.Lindhardt.Nielsen@regionh.dk
Karen	NIEUWENHUIJSEN	k.nieuwenhuijsen@amc.uva.nl
Marco	NUNEZ	manudoc.2000@gmail.com
Jodi	OAKMAN	j.oakman@latrobe.edu.au
Cecilia Omua	OBIANWU	dromua@yahoo.com
Francisca Uche	OJOMO	uche.ojomo@total.com
Valerie	O'KEEFFE	valerie.okeeffe@unisa.edu.au
Daniel	OKYERE	dannyokyere@gmail.com
Patricia	PADILLA	patripadilla@gmail.com
Martha Edilia	PALACIOS NAVA	pnme@unam.mx
Bishwadeep Manoj	PAUL	drbmpaul@gmail.com
Giuliano	PESEL	dr.giuliano.pesel@gmail.com
Metin	PICAKCIEFE	mpicakciefe@hotmail.com
Debora Miriam	RAAB GLINA	deboraglina@uol.com.br
Joshua Samuel	RAJKUMAR	joshua.physio@hotmail.com
Gustavo Adolfo	ROSAL	grosal@prevencontrol.net
Reiner	RUGULIES	rer@ami.dk
Luis	SADA	luis.sada@cuamoc.com
Peter	SCHNALL	pschnall@workhealth.org
Susanne	SCHUNDER-TATZBER	susanne@schunder.at
Natalie Virginia	SCHWATKA	natalie.schwatka@ucdenver.edu
Sandeep	SHARMA	sandeeparul@rediffmail.com
Kyoko	SHIMADA	kshima@m.u-tokyo.ac.jp

Akihito	SHIMAZU	ashimazu-tky@umin.ac.jp
João Silvestre	SILVA JR.	silvajunior.js@gmail.com
Jacques SinFat	TAMIN	drjsftamin@hotmail.com
Andrew Epaphroditus	TAY	drtaysk@yahoo.com
Sara	THOMEE	sara.thomee@psy.gu.se
Maria Dimitrova	TITOPOULOU	titopoulos@lot-consult.com
Belmar	TOLEDO	belmarmd@yahoo.com
Idier Albeiro	TORRES GUERRA	validier@yahoo.com
Abdoul Kader	TOURE'	kadertoure2003@yahoo.fr
Horacio	TOVALIN	htovalin@gmail.com
Ashish Akshay	TRIVEDI	trivediaa@gmail.com
Akizumi	TSUTSUMI	akizumi@kitasato-u.ac.jp
Michelle Rae	TUCKEY	michelle.tuckey@unisa.edu.au
Reidar	TYSEN	tyssen@medisin.uio.no
Katsura	UMEHARA	katmbbox2010@gmail.com
Sara Guadalupe	UNDA	saraunda@unam.mx
Heriberto	VALDEZ BONILLA	hvaldez.b.acad258@jal.conalep.edu.mx
Allard	VAN DER BEEK	a.vanderbeek@vumc.nl
F.J.H.	VAN DIJK	v.dijk.workandhealth@gmail.com
Catherine	VAN NIEKERK	catherine@sentinel.za.com
Michel	VEZINA	michel.vezina@mshp.ulaval.ca
Gloria Helena	VILLALOBOS	villalobosfajard@yahoo.com
Ricardo	VILLAS-BOAS DEL SEGUE	ricardo.villasboas@fiepr.org.br
Bart	VRIESACKER	bart.vriesacker@mensura.be
Tianan	YANG	tianan.yang@bit.edu.cn
Doohee	YOU	youd@who.int
Maged	YOUNES	magedyounes@gmail.com
Giulio	ZANOTTI	giuliozanotti_zg@libero.it
Min	ZHANG	minzhang928@vip.sina.com

Members who left the SC since the submission of the SC Midterm Report:

Name:

Email address:



Congress Organisers and ICOH Officers - The SASOM-MEDICHEM Joint Congress was held in Johannesburg, South Africa, 31 July – 3 August 2019. The Congress hosted the ICOH Officers meeting and the meeting of the ICOH Regional Secretaries – Africa, as well as the meetings of the MEDICHEM Board and the SASOM ExCo.

Photograph: Laria Botha (South Africa)



OCCUCON 2020 - The sessions of the ICOH SC on Rural Health were dedicated to global warming and climate change, and a badge inscribed 'Stop Global Warming' was handed to delegates who attended these sessions, as a goodwill token.

Photograph: Sashikala Chandrasekar (India)