

May, 2021 | 4th Edition

www.ioha2021.org



THE 12TH IOHA
INTERNATIONAL
SCIENTIFIC CONFERENCE



IOHA 2021

September 11-15, 2021

Bridging Gaps in OH Development, Opening New Horizons



ORGANIZER



KIHA
KOREAN INDUSTRIAL
HYGIENE ASSOCIATION

CO-HOSTS



KIHA
KOREAN INDUSTRIAL
HYGIENE ASSOCIATION



We look forward to seeing you at Virtual IOHA2021 from Sep 11-15, 2021

Greetings!

On behalf of the organizing committee of IOHA 2021, I am privileged and honored to welcome you to the IOHA 2021.

Due to continuous global health concerns and international travel restrictions, we recently came up with a decision to host 2021 conference under the virtual platform from 11 to 15 September 2021. We believe that transforming the conference to a virtual will ensure the safety of all the individuals involved and a more successful 12th IOHA International Scientific Conference.

For the virtual conference, a wide range of current topics in OH fields and COVID-19 in workplace issues will be discussed in keynote speeches and symposium sessions. We also prepared special opportunity to attend a designated PDC course for free. It is a limited offer and please refer to the webpage for details.

Please join us online with various benefits.

IOHA 2021 Virtual includes access to pre-recorded presentation and live Q&A. You may learn at your own pace and in your own way with reduced registration fees. There will be a virtual exhibition where you can meet industry partners, browse products and services.

With our best and collective efforts, we aim to ensure that the 2021 IOHA conference will be a productive and valuable experience for the participants. Your continued support and interest are the core assets of making this conference meaningful and productive.

Thank you!

We are beginning to look forward to the dawn of a new day and a brighter future on the horizon. The past year brought challenges and changes that we never imagined.

Yet through the pandemic Occupational Hygienists continued their work in many new, imaginative, and successful ways. We assisted in the identification of new pathways of transmission and routes of exposure. We created guidance documents to protect workers from new hazards. We broadened our reach into public and environmental health, and new industries, both formal and informal.

In the past year we found new ways to provide training to workers, students, and colleagues. We learned to communicate with one another regularly via the internet. In many ways, I believe participation, collaboration, and engagement have actually increased.

IOHA 2021 brings the opportunity to learn about the many different facets that have impacted occupational hygiene over the past year. Presentations and courses at IOHA 2021 will be sure to fill you in on everything that happened in Occupational Hygiene that you may have missed in your "hibernation" and isolation. It is a new beginning, and a new day, and we have a lot to look forward to in our profession, and in IOHA. I hope you join us at IOHA 2021.

Donguk Park, CIH, PhD

President of IOHA 2021
Conference Organizing Committee



Thomas Fuller,

ScD, CIH, CSP, MSPH, MBA, FAIHA
President of IOHA





Overview

TITLE	The 12th IOHA International Scientific Conference, IOHA 2021
DATE	September 11-15
VENUE	Virtual Conference
THEME	Bridging Gaps in OH Development, Opening New Horizons
OFFICIAL WEBSITE	www.ioha2021.org
ORGANIZED BY	Korean Industrial Hygiene Association (KIHA)
CO-HOSTED BY	Korean Industrial Hygiene Association (KIHA) International Occupational Hygiene Association (IOHA)



Key Dates

EARLY-BIRD REGISTRATION	June 15, 2021	SPONSOR & EXHIBITION APPLICATION	June 30, 2021
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Host Organizations

KOREAN INDUSTRIAL HYGIENE ASSOCIATION

The Korean Industrial Hygiene Association (KIHA) was founded on April 28, 1990, by a group of Korean industrial hygienists. As of 2021, it has a total of 560 members. Meanwhile, KIHA has dealt with occupational health issues that are probably inevitable due to the characteristics of the export-driven economic model that Korea is pursuing. It has been striving to identify and improve the cause of occupational illnesses, such as carbon disulfide poisoning or the occupational diseases in semiconductor industry, in the field, not just in the office. Through this process, it has been communicating throughout the world and contributing to the development of global occupational hygiene network.



INTERNATIONAL OCCUPATIONAL HYGIENE ASSOCIATION

The International Occupational Hygiene Association (IOHA) is an association of occupational hygiene organizations from across the world. All of these are dedicated to the discipline and application of the inherent principles of occupational hygiene.





Program at a Glance

TIME (KST)	PRE CONFERENCE (PDC+ Preview)		MAIN CONFERENCE				
	Day 1 11 Sep(Sat)	Day 2 12 Sep(Sun)	Day 3 13 Sep(Mon)	Day 4 14 Sep(Tue)	Day 5 15 Sep(Wed)		
Full day (24hours)	Parallel PDCs Pre-recorded sessions are available from 11 September to 15 September, 24/7. Check out the links, watch them, and communicate with presenters and colleagues through chatting board featured in each session. Live Q&A for each session will be provided in real time during the conference. Please Check the timetable of the conference.		Full day	Pre-recorded sessions are available from 11 September to 15 September, 24/7. Check out the links, watch them, and communicate with presenters and colleagues through chatting board featured in each session. Live Q&A for each session will be provided in real time during the conference. Please Check the timetable of the conference.			
			19:00	Opening Ceremony	Summary of the previous day		
			19:30	Keynote Speaker ① No borders – New Meanings : COVID-19 Lessons for Occupational Hygienists Marianne Levitsky	Keynote Speaker ④ The Importance of Exposure Science in Identifying Causes of Cancer and Other Health Effects Melissa Friesen	Keynote Speaker ⑦ How can IH embrace new challenges in the post-COVID-19 world? Doo Yong Park	
			20:00	Keynote Speaker ② Innovative methods & tooling to stimulate healthy working with hazardous substances Wouter Fransman	Keynote Speaker ⑤ Strategies of Improving Occupational Hygiene Capabilities for SMEs Tzu-Lien Tzou	Keynote Speaker ⑧ Challenges to Professional Ethics in the Globalising World of Work Jorma Rantanen	
			20:30	Break (15min.)	Break (15min.)	Break (15min.)	
			20:45	Keynote Speaker ③ The Global Burden of Occupational Health Disease : The Informal Economy Jack Caravanos	Keynote Speaker ⑥ Experiences on OSH Law Implementation and OH management system for the SME in Vietnam Anh Tho Nguyen	Keynote Speaker ⑨ The Changing Nature of Work Now and Beyond: Challenges for Occupational Health Yogindra Samant	
			21:15	Break (15min.)	Break (15min.)	Break (15min.)	
			21:30	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	
			22:00	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	
			22:30	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	Live Q&A for Symposium / Special Lecture Five Sessions in Parallel	Closing Ceremony	

(Version of Apr 14, 2021)



Keynote Speakers



Marianne Levitsky

» Founding President, Workplace Health Without Borders

» No borders – New Meanings: COVID-19 Lessons for Occupational Hygienists



Wouter Fransman

» Senior Research Scientist, Department of Risk Analysis for Products in Development at TNO, Netherlands

» Innovative methods & tooling to stimulate healthy working with hazardous substances



Jack Caravanos

» Clinical Professor, Environmental Public Health Sciences, NYU College of Global Public Health, USA

» The Global Burden of Occupational Health Disease: The Informal Economy



Melissa Friesen

» Senior Investigator, National Cancer Institute (NCI), National Institutes of Health (NIH), USA

» The Importance of Exposure Science in Identifying Causes of Cancer and Other Health Effects



Tzu-Lien Tzou

» Director General, Occupational Safety and Health Administration, Ministry of Labor, Taiwan

» Strategies of Improving Occupational Hygiene Capabilities for SMEs



Anh Tho Nguyen

» Deputy Director General, Department of Work Safety under the Ministry of Labour, Invalids and Social Affairs, Vietnam

» Experiences on OSH Law Implementation and OH management system for the SME in Vietnam



Doo Yong Park

» President, Korea Occupational Safety and Health Agency (KOSHA), Korea

» How can IH embrace new challenges in the post-COVID-19 world?



Jorma Rantanen

» Professor, University of Helsinki, Finland

» Challenges to Professional Ethics in the Globalising World of Work



Yogindra Samant

» Chief Medical Officer, Directorate of Labour Inspection, Norway

» The Changing Nature of Work Now and Beyond: Challenges for Occupational Health



PDC, Symposia Programs

PDCs

Title	Instructor/Co-Instructor
An Introduction to the Basic Principles in Occupational Hygiene OHTA PDC	Steven Verpaele, MSc (Belgium)
Fundamental Industrial Ventilation System Design Principles	Gregg Grubb (USA)
Stoffenmanager®: a validated and regulatory accepted chemical exposure management tool combining latest exposure intelligence and smart IT	Henri Heussen (Netherlands), Dorothea Koppisch (Germany)
Industrial Hygiene Principle – Advance	Shrenik Ranpura (India)
Aerosol Sampling Methods Update	Martin Harper (USA)
Local Exhaust Ventilation - Design criteria, Evaluation & Maintenance	Shrenik Ranpura (India)
Occupational hygiene and Emergency Response involving chemicals	Rene Leblanc (Canada), Steven Briggs (USA)
Practical heat stress assessment utilizing basic tools and phone / tablet applications	Ross Di Corleto (Australia), Claire Di Corleto (Australia)
Application of Engineering Economics Principles towards Assessing Economical Feasibility of OEHS Controls and Solutions	Sergio Augusto Caporali Filho (Puerto Rico)
Industrial Laser risk management and safety at the workplace	HA yousefi rizi (Republic of Korea), Bongchul Kang (Republic of Korea)

Symposia

Category	Title	Moderator / Co-Moderator
COVID-19	AIHA: Pivoting in Times of the Pandemic	John Mulhausen (AIHA, USA)
	ANOH: COVID-19 cluster outbreaks among workers in Asia-Pacific countries	Derek Miller (New Zealand Occupational Hygiene Society, New Zealand)
	ANOH: Protecting workers from COVID-19 infection risk in Asia-Pacific countries	Yu-Wen Lin (Fu Jen Catholic University, Taiwan)
Exposure assessment	Status of exposure assessment and diffusive sampling approaches for VOCs in Korea	Seung-Hyun Park (Korea Occupational Safety & Health Agency, Republic of Korea)
	Exposure assessment in the Exposome context- need for precise- broad-scope- external exposure assessment	Anjoeka Pronk (TNO, Netherlands) Peter Hoet (KU Leuven, Belgium)
	Development of Population Exposure Methodology Using Exposure Assessment Advancement (Eye-of-Horus Exposure Study)	Wonho Yang (Daegu Catholic University, Republic of Korea)
	Control Banding as Risk Communication	David Zalk (Lawrence Livermore National Laboratory / University of Illinois at Chicago, USA)
	Sampling and Analytical Challenges in Meeting Ever- Lower OELs for Metals and Metalloids	Steven Verpaele (Nickel Institute, Belgium)
	Exposure assessment tools for occupational safety and health regulations: state of the art and directions for the future	Henri Heussen (Cosanta BV, Netherlands)
	Overcoming Challenges in Chemical Exposure Assessment: From Field Work to Controls Implementation	Wan Sabrina Wan Mohamad (Malaysian Industrial Hygiene Association (MIHA), Malaysia)
	Occupational Hygiene aspects in the Pharmaceutical Industry 1	Michel Vangeel (Johnson & Johnson, Belgium)
Industry specific	Occupational Hygiene aspects in the Pharmaceutical Industry 2	Michel Vangeel (Johnson & Johnson, Belgium)
	Research & Development for farmers' health and safety	Yunkeun Lee (Wonjin institute of occupational and environmental health, Republic of Korea)
	Identification and Management of Cr6+ Dust Exposure on Gas Turbines in the LNG Industry	Will O'Callaghan (AIOH - Full Member and COH, Australia)
	Exposures, Controls and Respiratory Health in Coffee Workers	Mohammed Virji (CDC/NIOSH, USA)
	Occupational Hygiene in the Informal Recycling Sector	Jack Caravanos (New York University, School of Global Public Health, USA)
	Additive Manufacturing for Occupational Hygiene: Processes, emissions, and exposures	Johan du Plessis (North-West University, Occupational Hygiene and Health Research Initiative, South Africa)
	OH Issues in Semiconductor Industry Symposium 1- Chemical and EMF hazards in recent semiconductor Industry	Chungsik Yoon (Graduate School of Public Health, Seoul National University, Republic of Korea)
	OH Issues in the Semiconductor Industry Symposium 2- Epidemiological Study and issues in the semiconductor Industry	Hyoung-Ryoul Kim (the Catholic University of Korea, Republic of Korea)
Occupational diseases	OH Issues in Semiconductor Industry Symposium 3- Science, struggling of the victims, role of the professionals and NGOs for unveiling risks in the Semiconductor industry in Korea	Jongyoung Kim (Kyunghee University, Republic of Korea)
	Identification of Known, New and Emerging Work-Related Diseases	Yogindra Samant (Norwegian Labour Inspection Authority, Norway) Lode Godderis (University of Leuven, Belgium)
Physical Hazards	Case study of In-depth Work Environment Measurement and Assessment in Occupational Disease Epidemiology Investigation	Jee Yoen Jeong (Department of Occupational and Environment Health, Yong In University, Republic of Korea)
	Occupational Heat Stress: sustainable solutions and adaptation strategies provided by the HEAT-SHIELD project	Lars Nybo (University of Copenhagen, Denmark)
Emerging issues	NOISE CONTROL ENGINEERING IN INDUSTRIAL ENVIRONMENTS	Diego Mauricio Murillo Gómez (Asociación Colombiana de Higiene Ocupacional ACHO Capítulo Antioquia, Colombia)
	Marginalized workers in the global economy: protecting child workers, slaves, migrants and workers in the informal sector	Marianne Levitsky (Workplace Health Without Borders / ECOH, Canada)
	Expanding Occupational Safety and Health for Disabled Workers	Thomas Fuller (Illinois State University, USA)
	The Opportunities for Women Practitioners in Bridging Gaps in Occupational Hygiene Development	Norhazlina Mydin (CIH. CPIH, Malaysia)
OH policy	How to build health and safety cultures in the laboratories -Efforts will continue!	Saravanan Gunaratnam (National University of Singapore, Singapore)
	Changes in the Occupational Safety and Health Policy for 40 Years in South Korea : Focusing on the role of policy actors and contextual factors in policy agenda setting and formulation	Mijin Park (Department of Environmental Health Sciences, Graduate School of Public Health, Seoul National University, Republic of Korea)
International efforts	Institutional Improvement Suggestion on Chemical Management for preventing workplace hazardous chemical exposure in Korea	Taesun Kang (Semyung University, Republic of Korea)
	International Cooperation	Rene Leblanc (IOHA / GHD Consultant, Canada)
	Occupational Health: Present and Future	KOSHA (Republic of Korea)
	Exposure characterization for international programs in global burden of disease estimation and cancer hazard identification: needs and opportunities for collaboration	Thomas Fuller (Illinois State University, USA)
	Advancing Occupational Hygiene Education Internationally on Three Fronts: 1) Formal Academic Program Development, 2) Philanthropic Grass-Roots Outreach and Collaboration, and 3) Structured Online Certificate Programs	Thomas Fuller (Illinois State University, USA)
	Addressing the workforce capability and capacity for occupational hygienists in New Zealand	Derek Miller (Health and Safety Association of New Zealand, New Zealand Occupational Hygiene Society, New Zealand)
Global Chemical Management at Workplaces: SDS Regulations, GHS Implementation, and Hazard Communication	Eun-ah Cho (3M Korea, Republic of Korea)	



Special Lecturers



Karen Messing

» Professor, University of Quebec at Montreal, Canada

» Making workplaces safer for women: Gathering data & developing strategies



Rafael Moure-Eraso

» University of Massachusetts Lowell, USA

» Catastrophic Investigations: The Fallacy of Human Error



Gurumurthy Ramachandran

» Johns Hopkins Bloomberg School of Public Health, USA

» Data, Professional Judgment, and Modeling in Occupational Exposure Assessment



Laurence Svirchev

» Svirchev OHS Management Systems, Canada

» The International Trajectory of SARS-CoV-2 & COVID-19 from Localized Epidemic in Wuhan China to Pandemic End-Phase



Ying-Fang Wang

» Chung Shan Medical University, Taiwan

» Application of Sensor, IoT and Big Data for Occupational Exposure Assessment



Chungsik Yoon

» Seoul National University, Korea

» Mask, aerosols and bioaerosols



Renate Lemke

» ROHT (SAIOH), South Africa

» Enabling better protection of workers and managing exposure risks at remote mining sites in Africa



Veruschka Jansen

» SAIOH, South Africa

[Co-Presentation]



Registration Fee

CATEGORY		EARLY-BIRD (until June 15)	STANDARD (from June 16)
Main Conference	IOHA Member	USD 300	USD 380
	Non-Member	USD 400	USD 500
	Student	USD 150	USD 190
	Developing Country (General)	USD 150	USD 190
	Developing Country (Student)	USD 50	USD 60

CATEGORY	REGISTRATION FEE	
PDCs	General Participants	USD 150 / 4hours
	Developing Regions	USD 50 / 5hours
	Students	

IOHA 2021 International Scientific Conference
– A Virtual experience from any device, from your home or office, from any part of the world



» Save precious time and money for travel and accommodation expenses

» Enjoy the flexibility of planning your days around relevant sessions



» Sharpen your professional capacity through a diverse menu of formats (including keynotes speeches, interactive special lectures and symposiums, podium and poster sessions, and pre-conference PDCs)

» Network with colleagues, leading edge professionals, and industry specialists using live chats



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IOHA 2021

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