



38<sup>th</sup> Asia-Pacific Occupational Safety & Health  
Organization Meetings & Conference, 2024

# APOSHO 38

**Towards the Sustainability  
on Safety, Health, and Wellbeing**  
13-17 November 2024  
The Royal River Hotel, Bangkok, Thailand

## Conference Handbook





amazing  
**THAILAND**



# WELCOME TO **THAILAND**



**Amphawa Market**



**Sao Ching Cha**



**Thai Elephants**



**Wat Suwan Dararam**



**Moo Deng**



**Krabi**



**Wat Phra Kaeo**

**TAT Tourism Authority of Thailand**

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**SCAN ME**





# APOSHO 38

Towards the Sustainability  
on Safety, Health, and Wellbeing

## Host & Co-organizer



## Supporting Organizations



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# CONFERENCE CHAIR WELCOME



On behalf of SHAWPAT, which is an acronym for Safety and Health at Work Promotion Association (Thailand) Under Her Royal Highness Princess Maha Chakri Sirindhorn Patronage, I am delighted to welcome you all to APOSHO 38 in Thailand this year.

This event of the 38<sup>th</sup> Annual Meetings and Conference is being organized at the Royal River Hotel in Bangkok between the 13<sup>th</sup> and 17<sup>th</sup> of November with the theme “Towards the Sustainability of Safety, Health, and Wellbeing”. We are very excited to see many presentations and special panel discussions by a number of distinguished keynote speakers, famous hero rescuer, leading executives, well-respected academics, senior specialists, as well as practitioners and students in various areas of occupational health and safety. They will share their knowledge and experiences, as well as many new ideas, advanced technologies, and innovations, to help and inspire us to develop a safety culture and sustainability of safety, health, and wellbeing for our workplaces and societies.

In addition to those technical aspects of this event, you are also invited to join our Gala Dinner on the 15<sup>th</sup> of November with our APOSHO family and friends in a night of relaxation with a memorable touch of music, dancing, and thai traditional shows. Furthermore, you will have an opportunity to experience a joyful night of thai celebration along rivers and exotic places in Bangkok with our traditional and famous “Loy Kratong Festival”.

Lastly, I hope you, your friends, and families will have a very good time being here with us at APOSHO 38.

A handwritten signature in white ink, appearing to read 'P. Yuvaves', with a stylized flourish at the end.

**Mr. Prasopchai Yuvaves**

Conference Chair, APOSHO 38

(President of Safety and Health at Work Promotion Association (Thailand)

Under Her Royal Highness Princess Maha Chakri

Sirindhorn Patronage (SHAWPAT))

# APOSHO SECRETARY GENERAL WELCOME



Since joining APOSHO in 1986, this year's conference will be the 3<sup>rd</sup> time that it has been hosted by SHAWPAT.

The Board of APOSHO and myself would like to welcome you and your colleagues to Bangkok, Thailand and participate in this year's conference.

The conference will bring together safety professionals from all over the globe, with a number of them making presentations that will be both challenging and exciting. Here in APOSHO 38, you have the opportunity to catch up with old friends and make new acquaintances.

The format of the conference will have something for everybody, from outstanding keynote presentations, individual papers, and highly interactive panel session.

SHAWPAT had planned this conference for a long time and coupled with their experience at hosting many safety conferences before, you can be sure that it is going to be an experience that you will never forget.

I am happy to meet you in Bangkok. Hope you will enjoy the APOSHO 38 and wish you all, the success with this conference.

A handwritten signature in white ink that reads "Bernie Doyle". The signature is fluid and cursive, with the first name "Bernie" and the last name "Doyle" clearly distinguishable.

**Mr. Bernie Doyle**

APOSHO Secretary General,  
(President of NSCA Foundation, Australia)



# ABOUT APOSHO



The Asia-Pacific Occupational Safety and Health Organization (APOS HO) is an international body composed of non-profit professional organizations devoted to the prevention of occupational accidents and diseases. Although full membership is given to non-governmental organizations in the Asia-Pacific region, any occupational safety and health organizations, even in regions other than the Asia-Pacific, can join the APOS HO as associate or affiliate members. The first APOS HO Annual Conference took place in Singapore in August 1985 by the suggestion of the chairperson of National Safety Council of Australia. It was called initially “The Coordinating Committee of Asia-Pacific National Safety Councils” and later in 1992 was renamed as now at the 8<sup>th</sup> Annual Conference. Members as of 2024 : Full Members 32 ; Associate Members 3 ; Affiliate Members 12 ; (from 23 different countries or districts).

## Full Members

National Safety Council of Australia  
Foundation (**NSCA Foundation**)

Work Health and Safety Foundation  
(**WHS Foundation**)

China Occupational Safety and Health  
Association (**COSHA**)

China Association of Work Safety  
(**CAWS**)

Sinosteel Safety and Environmental  
Protection Research Institute (**SEPRI**)

Hong Kong Occupational Safety and  
Health Association (**HKOSHA**)

Hong Kong Occupational Safety and  
Health Council (**HKOSHC**)

Institution of Occupational Safety and  
Health (**IOSH**), Hong Kong

Chinese Taipei Industrial Safety and  
Health Association (**ISHA**)

National Safety Council of India (**NSC India**)

Institute for Certification of  
Competencies on OSH (**ICCOSH**)

National Safety and Health  
Council of Indonesia (**NSHCI**)

Japan Industrial Safety and  
Health Association (**JISHA**)

Korea Occupational Safety and  
Health Agency (**KOSHA**)

Korea Industrial Safety Association  
(**KISA**)

Malaysian Society for Occupational  
Safety and Health (**MSOSH**)

Malaysian Occupational Safety and Health  
Practitioners Association (**MOSHPA**)

National Institute of Occupational  
Safety and Health (**NIOSH**)

Human Factors and Ergonomics  
Society Malaysia (**HFEM**)

Institution of Occupational Safety and  
Health Management (**IOSHM**), Mauritius

Pakistan Safety Council (**PSC**)

Workplace Advocates on Safety in  
the Philippines, Inc. (**WASPI**)

Safety Organisation of  
the Philippines, Inc. (**SOPI**)

Association of Safety Practitioners of  
the Philippines, Inc. (**ASPPi**)

National Safety Council of  
Singapore (**NSCS**)

Singapore Institution of  
Safety Officers (**SISO**)

Institution of Occupational Safety  
and Health (**IOSH**), Singapore

Safety and Health at Work Promotion  
Association (Thailand) under patronage  
(**SHAWPAT**)

Occupational Health and Safety  
at Work Association (**OHSWA**)

Workplace Safety and  
Health Association (**WSHA**)

National Institute of Occupational  
Safety and Health (**VNNIOSH**)

Vietnam Occupational Safety and  
Health Association (**VOSHA**)





# Ministry of Labour's policies for the fiscal year 2025

- Prominent Social Security
- Modern Skills Emphasis
- Employment for Thais
- Safety Culture Creation
- Stable Thai Labour Economy

Phiphat Ratchakitprakarn  
( Minister of Labour, Thailand )



# KEYNOTE SPEAKERS



## **Prof., Dato' Sri Dr. Mohammed Azman**

**President of the International Social Security Association (ISSA)**

Dr. Azman, the 17<sup>th</sup> President of the International Social Security Association (ISSA), took office for the term 2023–2025 upon the ISSA Elections during the World Social Security Forum (WSSF) 2022 in Marrakech, Morocco. As a social security practitioner, he aspires to ensure to make this world a better place where no one is left behind.

He started his career in 1993 as a young medical doctor, and in 2001 Dr. Azman became the first medical doctor employed by the Social Security Organisation (Pertubuhan Keselamatan Sosial – PERKESO) of Malaysia. He ascended the corporate ladder when he was promoted to Senior General Manager of Operations in 2007, Deputy Chief Executive (Operations) in 2011, and finally as CEO of PERKESO in 2015.

Under his leadership, Dr. Azman initiated various innovations and reforms to enhance PERKESO's social security protection, which includes the extension of PERKESO's coverage from formal workers to other working populations, such as government contract workers, self-employed workers, foreign workers, domestic workers, and recently housewives. He was also instrumental in the introduction of the Employment Insurance System in Malaysia, which enabled strong linkages between social security and labour market interventions for vulnerable people.

Before being elected as ISSA President, he was an active member of the ISSA Bureau and Chairperson of the ISSA Technical Commission on Organization, Management, and Innovation for six years. He also held various other positions internationally, such as the President of the Asia Workers' Compensation Association (AWCA), and a Board Member for International Association of Industrial Accident Boards and Commissions (IAIABC) based in the United States.

Dr. Azman grew up in the state of Pahang, Malaysia and pursued his medical degree at the University of Malaya from 1987 to 1992 and specialized in Occupational Medicine at Royal College of Physicians, Ireland in 1997. He was conferred with a Fellowship from the Royal College of Physicians, Ireland in 2011. Currently, Dr. Azman is also an Adjunct Professor at two Malaysian universities: Universiti Utara Malaysia (UUM) and Universiti Sains Malaysia (USM). His leadership, capability, and contributions are recognized locally and internationally, and in 2020, Dr. Azman became the first Malaysian to receive the Frances Perkins Award from the IAIABC.

The International Social Security Association (ISSA) is the world's leading international organization for social security institutions, government departments and agencies. The ISSA promotes excellence in social security administration through professional guidelines, expert knowledge, services and support to enable its members to develop dynamic social security systems and policy throughout the world. Founded in 1927 under the auspices of the International Labour Organization, the ISSA counts more than 320 member organizations in over 160 countries.



# KEYNOTE SPEAKERS



## Prof. Dr. Seong-Kyu Kang

**President of the International Commission on Occupational Health (ICOH)**

Prof. Dr. Seong-Kyu Kang is the President of the International Commission on Occupational Health (ICOH). He has been Vice President and a member of the Board of ICOH since 2009 and served as a member of Board and Editor-in-Chief of the Newsletter. He is a fellow of the Collegium Ramazzini, and has been the Editor-in-Chief of the Safety and Health at Work. The journal is indexed in SCIE/SSCI with an Impact Factor of 3.0 in 2022.

He completed his medical education at the College of Medicine, Chung Nam, National University in Daejeon and underwent residency training in Family Medicine at Yonsei University Severance Hospital in Seoul, Republic of Korea.

He also holds the positions as Dean of the Graduate School of Public Health, and Chair of the Department of Occupational and Environmental Medicines at the College of Medicine and Gil Medical Center, Gachon University in Incheon, Republic of Korea and serves as the non-executive Vice President of the Korea Industrial Health Association (KIHA).

During 2010-Present, Professor Kang served as the Chair of the Occupational Safety and Health Committee of the Economy, Social & Labor Council under the Presidential Office and facilitated an agreement among employees, employers, and the government to prevent serious accidents.

Previously, he held positions at the Korea Occupational Safety and Health Agency (KOSHA), including Vice President of Technology, Director General of the Seoul Regional Office, and Director General of the Occupational Safety and Health Research Institute (OSHRI). He was the member of the Advisory Committee of the Global Network of WHO Collaborating Centres in Occupational Health and also served as an Epidemic Intelligence Service (EIS) fellow at the United States Centers for Disease Control and Prevention (US CDC) and was assigned to the National Institute for Occupational Safety and Health (NIOSH). He played a key role in organizing the 31<sup>st</sup> ICOH Congress held in Seoul.



# KEYNOTE SPEAKERS



## Prof. Dr. Hisashi Eguchi

**Professor Department of Mental Health Institute of Industrial Ecological Sciences University of Occupational and Environmental Health**

Since 2020, Prof. Dr. Hisashi Eguchi has currently served as Vice Director at the Institute of Industrial and Ecological Sciences and International Center, and held the position of Professor in the Department of Mental Health at the University of Occupational and Environmental Health, Japan.

He received his Bachelor of Medicine from the University of Occupational and Environmental Health, Fukuoka, Japan, Master of Business Administration, Osaka Prefectural University, and Doctor of Medical Science, Shinshu University, Nagano, Japan. His thesis paper was “The effects of workplace occupational mental health and related activities on psychological distress among workers: a multilevel cross-sectional analysis”.

He served as an occupational physician at Kyoto Industrial Health Association and occupational physician at ExxonMobil Yugen Kaisha, Osaka. He was also engaged as a Research Fellow in the Takemi Program in International Health at Harvard School of Public Health and advanced to Junior Associate Professor in the Department of Public Health at Kitasato University School of Medicine, Kanagawa, Japan.



# KEYNOTE SPEAKERS



## Mr. Helmut Ehnes

**Chair of the Vision Zero Steering Committee of ISSA, and  
President of ISSA Mining Section**

Mr. Helmut Ehnes presently holds management positions in the International Social Security Association (ISSA) as the Chair of the Vision Zero Steering Committee of ISSA and President of ISSA Mining Section and Technical Secretary of the ISSA Trade Section, Germany. He is also the Chair of the International Jury for the ILA VISION ZERO Safety & Health Award.

For more than 35 years, Helmut Ehnes has worked in the German Statutory Accident Insurance Scheme, first as a labour inspector in mining, quarries, and the whole raw materials industry. Later he became the Director for the Prevention Department of BG RCI and was responsible for the whole range of prevention activities offered to 35,000 German companies, from inspection and consulting to research to training, motivation, and education.

Under his leadership the VISION ZERO Strategy including its 7 Golden Rules for a prevention culture at workplaces has been formulated and implemented – for mining and chemical industry, in Germany and globally.



## Mr. Sakesiri Piyavej

**Senior VP - Quality, Safety & Occupational Health and  
Environment PTT Global Chemical Public Co. Ltd. (GC)**

Mr. Sakesiri Piyavej is Senior Vice President of Quality, Safety & Occupational Health and Environment, PTT Global Chemical Public Co., Ltd. (GC).

He received his Bachelor of Electrical Engineering from Chulalongkorn University, and Bachelor of Science (Occupational Health and Safety) from Rajabhat Rajanagarindra University, and Master of Public Administration (Public Administration for Executive; Honor), National Institute of Development Administration.

Previously, he was the Vice President of Technical Safety and PSM, Vice President of Technical and Enhance SHE, Vice President of SHE Management, Division Manager of Instrument & Electrical (Maintenance, Engineering and Construction), and Section Manager of Advanced Process Control.



# KEYNOTE SPEAKERS



## Dr. Yuka Ujita, M.D.

**Senior Occupational  
Safety and Health Specialist, ILO DWT-Bangkok**

Dr. Yuka Ujita is Senior Occupational Safety and Health Specialist with the ILO DWT in Bangkok, Thailand. She obtained her Ph.D. in Preventive Medicine from the University of Occupational and Environmental Health, Japan (UOEH) and became a medical doctor by profession on a foundation of her work experience in the medical field over twelve years, as a certified occupational physician.

Since 2003, she has joined the ILO Subregional Office for East Asia and has been contributing to improvement and promotion of safety and health at work through policy and technical advice, training, knowledge sharing, awareness raising and project backstopping both at the Head Quarter and in the field offices. She has offered Occupational Safety and Health (OSH) services to both workers and employers in various settings. The areas that she has particularly covered include OSH data, safety and health of vulnerable groups of workers (female workers, young workers, migrant workers, and those in informal economy) and hazardous child labour.



## Dr. Tessa Bailey

**Chief Executive Officer of the Opus Centre Psychosocial Risk**

Dr. Tessa Bailey is CEO of the Opus Centre for Psychosocial Risk and internationally renowned psychologist who completed her PhD focusing on Psychosocial Safety Climate (PSC) and psychosocial factors at work, for which she received the 2019 Ian Davey Award for the most outstanding Ph.D. thesis.

At the OPUS Centre Dr. Bailey has helped organizations of all sizes, across multiple industries with training, risk assessments, safety system development and program evaluation.

As a committee member of the Asia Pacific Academy for Psychosocial Factors and a Research Fellow at UniSA, Dr. Bailey coordinated both international and local research including the Workplace Barometer Project which collected data on working conditions, worker health, and productivity outcomes for over 7000 workers across four-time waves.



# KEYNOTE SPEAKERS



## Prof. Dr. Mark Boocock

**Leader of Ergonomics and Human Factors at Centre for Occupational Health and Safety Research, Health, and Rehabilitation Research Institute, AUT**

Prof. Dr. Mark Boocock is a Professor and Director of the Ergonomics and Human Factors Research Group at Auckland University of Technology (AUT) in New Zealand and the Leader of Ergonomics and Human Factors at Centre for Occupational Health and Safety Research, Health, and Rehabilitation Research Institute at AUT. He is currently working with researchers from The Netherlands (Work and Health, TNO) and Khon Kaen University in Thailand.

Prof. Dr. Mark Boocock is a past President of the Human Factors and Ergonomics Society of New Zealand (HFESNZ) and has published over 100 journal articles or book chapters and presented at over 140 conferences. He received his High National Diploma (HND) in Computer Sciences from the University of South Wales, a Bachelor of Sciences in Environmental Sciences from the University of East Anglia. He is a certified member of the UK Chartered Institute of Ergonomics and Human Factors (CIEHF), and a registered European Ergonomist.

He has over 30 years' experience in occupational biomechanics, and the prevention and management of work-related musculoskeletal disorders. He joined AUT from the Health and Safety Laboratory in the UK (an agency of the Health and Safety Executive) where he worked as a senior research scientist in the field of ergonomics and was the UK representative on International (ISO) and European (CEN) Safety Standards on manual handling, human physical strength and working postures.

In New Zealand, he has served as an advisor to the Accident Compensation Corporation's (ACC) Workplace Injury Prevention Strategy Program and was the lead researcher on the writing of the revised New Zealand guidelines on working with computers.



# KEYNOTE SPEAKERS



## Prof. Dr. Pisut Painmanakul

**Assoc. Dean (Innovation Strategy) and Acting Director of Carbon Institute for Sustainability, Faculty of Engineering, Chulalongkorn University**

Prof. Dr. Pisut Painmanakul is presently Associate Dean (Innovation Strategy) and Acting Director of Carbon Institute for Sustainability, Faculty of Engineering, Chulalongkorn University. He is Acting Director of Carbon Institute for Sustainability (CBiS) and Secretary to The Minister of Energy. He is also in the Working Group Climate Change Office of Ministry of Energy (CCOME).

He received his Bachelor of Engineering (Environmental Engineering) from Chulalongkorn University, Master of Engineering (Environmental Engineering), Master of Engineering (Research), and Ph.D. of Industrial Process Engineering from INSA Toulouse, France.

Prof. Dr. Pisut Painmanakul has been also in many committees such as the Electricity Generating Public Company Limited (EGCO) Committee, Electricity Generating Authority of Thailand (EGAT), the National Housing Authority (NHA) Committee, Driving Economic Development by Implementing BCG Models towards Circular Economy Sub-committee, and the National Strategy No.5: Quality of Life and Environment Committee.

Furthermore, he is also actively working as a columnist on Environmental Issues for Green Network magazine, and MBA magazine, as well as a Radio DJ for radio programs – “Engineering Talk”, and “Envi insider by Dr. O” on the Radio 101.5 MHz of Chulalongkorn University.



# KEYNOTE SPEAKERS



## **Assoc. Prof. Dr. Sunisa Chaiklieng**

**Faculty of Public Health, Khon Kaen University,  
International Affairs Representative for OHS, OHSWA**

Dr. Sunisa Chaiklieng is a Professor of Occupational Health and Safety and Chair of the MSc program in Occupational Health and Safety at Khon Kaen University (KKU) in Thailand. She obtained her BSc and MSc from Mahidol University in Thailand, a MOSH from ILO/Turin University, Italy and Ph.D. from Germany.

With over 20 years of experience in Occupational Safety and Health, she is an expert in the risk assessment of Occupational Toxicology and Ergonomics. She joined KKU as the head of the Department of Occupational Safety and Environmental Health, Faculty of Public Health in Thailand, where she actively leads the Occupational Health and Safety program and engages in research and training initiatives.

Dr. Sunisa Chaiklieng has gained recognition through several awards for outstanding achievements in Occupational Health and Safety from international organizations. Notable awards include the International Union of Toxicology (IUTOX) fellowship award and IUTOX fellowship award in 2022, the Society of Toxicology (SOT) award of the Global Scholar Exchange Program in 2015, the ILO fellowship award in 2022, and the MEDICHEM (ICOH Occupational Health in the Chemical Industry) 50<sup>th</sup> anniversary award in 2023. These accolades are a testament to her dedication to exploring and establishing cooperative research in the risk assessment of occupational exposure to chemicals and health hazards.

Dr. Sunisa has a prolific publication record, with over 180 journal articles, and has presented at more than 100 international conferences. She is actively involved in various capacities, serving as a member of the scientific committees and board for ICOH's scientific committee on Occupational Toxicology and Musculoskeletal Disorders, as well as for MEDICHEM. Additionally, she plays a crucial role as the international affairs representative for Occupational Health and Safety at Work Association (OHSWA) in Thailand, a full member of APOSHO.



# KEYNOTE SPEAKERS



## Col. Bhak Loharjun, M.D.

**Chief Medical Officer, Special Warfare  
Command Center, Lopburi, Thailand**

Col. Bhak Loharjun (MD), Navy SEAL is Chief Medical Officer, Special Warfare Command Center, Lopburi, Thailand. He is former Commander of the 3<sup>rd</sup> Guard Battalion, Surathampithak Camp, Nakorn Rachasima Province.

In 2018, Col. Bhak Loharjun participated in search and rescue operations at Tham Luang Cave in Mae Sai District, Chiang Rai Province, where everyone was able to be safely transported out. When the mission was completed, Bhak Loharjun was the last person to dive out. His leadership has been considered as “task-oriented leadership” which is the key process to drive all personnels to achieve their desired goals. His leadership is also “relationship oriented” as he always allows for open discussion and suggestion from all of his team.

He was given a nickname of “The Strongest Doctor on Earth” by successfully completing several military courses, and from helping the famous “Tham Luang Cave Search and Rescue Operation” in 2018. As a result, he became well known at the public level, including a resolution from the Medical Council Committee elevating him to be “Model Doctor”.

Col. Bhak Loharjun graduated from the Phramongkutklao Medical College, Class 23. He completed 6 other special courses such as Airlift Course (Air Force Academy), Assault Course or Saber-toothed Tiger (General Class), Chief of Staff of the Army, No. 91, Royal Thai Army. Underwater Assault Disruptor Course (SEALs), Recon Course, Royal Thai Navy and Special Operations Course, Royal Thai Air Force.

Col. Bhak Loharjun also received many Royal Decorations, namely: The Chakra Mala Medal, Border Service Medal, Most Exalted Order of the White Elephant, 3<sup>rd</sup> Class, Tritaphorn of the White Elephant, Most Noble Order of the Crown of Thailand, 2<sup>nd</sup> Class, Tiewtiya decoration of the Crown of Thailand.

He served as a doctor for the Peace Corps in the 3 southern border provinces and became a doctor for the Thai-Iraqi Force 976, 2<sup>nd</sup> shift in 2004.



# KEYNOTE SPEAKERS



## Prof. Dr. Peter Vink

Faculty of Industrial Design, TU-Delft

Dr. Peter Vink is professor at the faculty of Industrial Design Engineering at the TU-Delft and doing a work concerns environmental design.

From 2015-2021, he was head of the department Sustainable Design Engineering at this faculty, where he led a group of 110 researchers and teachers. He has written over 250 papers and books in the field of comfort, performance and design of interiors. His latest book is 'Seat Comfort and Design' (Pumbo, 2023), which is a follow up of 'Aircraft Interior Comfort and Design' which was co-authored by Klaus Brauer, one of the leading designers of the Boeing 787 interior (CRC Press, Boca Raton, 2011).

Prof. Dr. Peter Vink received his Ph.D. degree in 1989 at the Medical Faculty of the University of Leiden in the field of biomechanics. He is in the editorial board of scientific journals (e.g. Applied Ergonomics and Work). He chaired the jury of the Crystal Cabin Award for three years (the most prestigious prize in aircraft interiors), and won the Hal W. Hendrick Award in 2011, which is for a non-U.S. citizen who has made outstanding contributions to the human factors/ergonomics field.

Prof. Dr. Peter Vink previously guided more than 25 Ph.D. students and now is still guiding another 5 Ph.D. students. He is also on the editorial board of several journals and is the "2<sup>nd</sup> most published author in Applied Ergonomics (Lifetime)" (the Applied Ergonomics is the Q1 journal in his field). He has given more than 50 keynotes worldwide, and in 2024 he was chosen as teacher of the year of the master education, which is the recognition that he has won 4 times before. In 2022 his students also won the Crystal Cabin Award, which is the most prestigious award in aircraft interiors. In 2023, he received the official royal distinction and was made an Officer in the Order of Orange-Nassau for his research on developing new products and environments with a proven effect on comfort, performance and health.



## Committee Advisors



**Assoc. Prof. Charnchai Panthongviriyakul, M.D.**

Acting President of Khon Kaen University



**Dr. Chaityuth Chavalitnitikul**

Honorary member of APOSHO, and Board Advisor of SHAWPAT



**Assoc. Prof. Vichai Pruktharathikul**

President of Occupational Health and Safety at Work Association (OHSWA)



**Assoc. Prof. Dr. Sasitorn Taptagaporn**

Advisor of the Dean of Faculty of Public Health, Thammasat University

## Committee Members



**Assoc. Prof. Dr. Chalermchai Chaikittiporn**  
Chair



**Assoc. Prof. Dr. Sunisa Chaiklieng**  
Vice Chair



**Prof. Emeritus Dr. Pornpimol Kongtip**



**Prof. Dr. Wongsu Laohasirirong**



**Asst. Prof. Dr. Soisuda Kesornthong**



**Dr. Orrapan Untimanon**



**Mr. Pongsit Sirirerkudomporn**



**Prof. Dr. Anamai Thetkathuek**



**Assoc. Prof. Dr. Wantanee Phanprasit**



**Assoc. Prof. Dr. Paveena Meepadit**



**Mr. Prakart Buttamart**



**Mr. Akarapong Nual-on**



**Dr. Dheera Phong-anant**



**Ms. Makaporn Petkhiaw**



**Ms. Pornthip Sukplai**



# APOSHO COMMITTEE MEETINGS

## Board and Governance Committee Meetings

**13 November 2024**

ROOM	TIME	ACTIVITIES
Busabongkot B	11.00-13.00	Board of APOSHO
Phung Nam	13:00-14:00	Lunch
Busabongkot B	14.00-16.00	Governance Committee

## Functional Committee Meetings

**14 November 2024**

ROOM	TIME	ACTIVITIES
Krunghon	08:00-08:30	Registration
	08:30-08:45	Opening Address by the Conference Chair and the Secretary General
	08:45-10:15	Management & Development Committee
	10:15-10:30	Morning Break
	10:30-11:30	Membership Screening Committee
	11:30-12:30	OHSMS Committee
Phung Nam	12:30-13:30	Lunch
Krunghon	13:30-14:30	Communication Committee
	14:30-14:45	Afternoon Break
	14:45-15:45	Education & Training Committee
	15:45-16:45	Health & Wellbeing Committee
D-River	17:00-18:30	Welcome Cocktail Reception

## Annual General Meeting

**17 November 2024**

ROOM	TIME	ACTIVITIES
Krunghon	09:00-12:00	AGM and Closing Ceremony
Phung Nam	12:00-13:00	Lunch



# APOSHO 38 CONFERENCE PROGRAM

15 November 2024

ROOM	TIME	ACTIVITIES / TOPICS	BY	POSITION AND ORGANIZATION
Krungthorn	07:00-08:30	Registration		
	08:30-08:35	Video on Emergency Exit	MC	
	08:35-08:40	Video on Thailand SHW Situation		
	08:40-08:50	Welcome Address by the APOSHO Secretary General	Mr. Bernie Doyle	APOSHO Secretary General, (President of NSCA Foundation, Australia)
	08:50-09:00	Welcome Remark by the Conference Chair	Mr. Prasopchai Yuvaves	Conference Chair, APOSHO 38 (President of SHAWPAT, Thailand)
	09:00-09:20	Special Opening Address	H.E. Mr. Phiphat Ratchakitprakarn	Minister of Labour, Thailand
	09:20-09:35	Sponsorship Award Presentation	H.E. Mr. Phiphat Ratchakitprakarn	Minister of Labour, Thailand
	09:35-09:45	OSH Commitment Award Presentation	Mr. Bernie Doyle	APOSHO Secretary General
	09:45-10:00	Group Photo Session		
10:00-10:25		Morning Break		
Krungthorn	10:25-10:50	Keynote Session 1: ISSA's Vision on Sustainability	Prof., Dato' Sri Dr. Mohammed Azman	President of ISSA
	10:50-11:00	Thailand Vision Zero Award Presentation	Prof., Dato' Sri Dr. Mohammed Azman / Mr. Helmut Ehnes	President of ISSA / Chair of the Vision Zero Steering Committee of ISSA
	11:00-11:30	Keynote Session 2: ILO's Goals on SHW Sustainability	Dr. Yuka Ujita, M.D.	Senior OSH Specialist, ILO DWT-Bangkok
	11:30-12:00	Keynote Session 3: HSE Inspirational Leadership	Mr. Sakesiri Piyavej	Senior VP: QSHS of PPT Global Chemical, Thailand
	12:00-12:30	Keynote Session 4: Vision Zero - New Thinking for Life	Mr. Helmut Ehnes	Chair of The Vision Zero Steering Committee of ISSA and President of ISSA Mining Section, Germany
Phung Nam	12:30-13:30	Lunch		
Krungthorn	13:30-14:10	Concurrent Session 1: Vision Zero Strategy and Practices		
	13:30-13:50	The Vision Zero Approach to Implement Wellbeing in Enterprises	Dr. Pernille Thau	Human House, Denmark
	13:50-14:10	Becoming Change Agents in Industry Vision Zero for Labour Inspectors	Mr. Helmut Ehnes	ISSA Mining Section, Germany
Bongkotrat A	13:30-14:10	Concurrent Session 2: Mental Health and Wellbeing		
	13:30-13:50	Reducing Physical and Mental Health of Internet Users: An Intervention of OHS Education among Adolescent in Makassar	Prof. Dr. Yahya Thamrin	Faculty of Public Health, Hasanuddin University, Indonesia
	13:50-14:10	OSH Support for Small and Medium-Sized Enterprises through Innovative Solutions-Hong Kong Experience	Mr. Stanley Wong	OSHC, Hong Kong SAR
Bongkotrat B	13:30-14:10	Concurrent Session 3: Logistics and Road Safety		
	13:30-13:50	Multi-Party Collaboration for a People-Centered Prevention Culture Achieving Quantum Leap in SHW-Performance for the Construction Industry	Ms. Alice Lam	OSHC, Hong Kong SAR
	13:50-14:10	The Use and Achievement of Korean Safety Ladder (K-Ladder) for The Prevention of Accident for Portable Ladder Workers	Mr. Donglee Yang	International Cooperation Center Korea Occupational Safety and Health Agency, Korea



# APOSHO 38 CONFERENCE PROGRAM

15 November 2024

ROOM	TIME	ACTIVITIES / TOPICS	BY	POSITION AND ORGANIZATION
14:10-14:40		Afternoon Break		
Krungthorn	14:40-16:20	Concurrent Session 1: Vision Zero Strategy and Practices (Continue)		
	14:40-15:00	Collaboration is Key-Advanced Contractor Management Practices	Dr. Jens Jühling	ISSA Electricity Section, Germany
	15:00-15:20	Artificial Intelligence (AI): Digital Innovation to Achieve Vision Zero	Prof. Karl-Heinz Noetel	ISSA Construction Section, Germany
	15:20-15:40	Global Supply Chains: Vision Zero for Compliance and SHW+	Mr. Felix Zelt	Prevention Section, BGHW, Germany
	15:40-16:00	Vision Zero in Africa: Our Road to a New Prevention Strategy for Senegal	Ms. Marie Diallo	Caisse de Sécurité Sociale, Sénégal
	16:00-16:20	Supporting an Advanced Mindset for Safety, Health and Wellbeing by an Industry Association	Dr. Klaus-Ruthard Frisch	International Lime Association, Germany
Bongkotrat A	14:40-16:00	Concurrent Session 4: Emerging Risks & New Trend on Risk Assessment		
	14:40-15:00	Navigating Societal Challenges: Sociological Perspectives on Mandatory Insurance Infrastructure for Occupational Diseases and Injuries in Kazakhstan	Ms. Diana Kazbekova / Dr. Akira Ogami	Department of Work System and Health Institute of Industrial Ecological Sciences of The University of Occupational and Environmental Health, Japan
	15:00-15:20	High-Risk Workplace Prediction Models	Ms. Suhyeon Lee	Korea Occupational Safety and Health Agency, Korea
	15:20-15:40	Revolutionizing Workplace Safety: The Power of Digital Integrated Risk Management	Mr. J.C. Sekar	AcuiZen Tech, Singapore
	15:40-16:00	BTEX Exposure Risk Assessment on Truck Drivers at Hazardous Area Classification of Fuel Tank Storages	Assist. Prof. Dr. Thawatchai Dacherngkhao	Khon Kaen University, and Roi-Et Rajabhat University, Thailand
Bongkotrat B	14:40-16:20	Concurrent Session 5: OSH in the New Normal for Resilient Workforce		
	14:40-15:00	Innovative Safety: Building a Safety Culture with Social Media	Mr. David Lim	Korea Industrial Safety Association, Korea
	15:00-15:20	Customizing Safety: A Blueprint for Establishing Research Centre for Design for Safety	Prof. Vincent Ho / Dr. Nicole Yiu	Department of Civil & Env. Engineering / The HK Polytechnic University, Hong Kong SAR
	15:20-15:40	Ai-Enhanced Rapid Audiogram Interpretation in Occupational Health: Integration of a Fine-Tuned LLM within the OSH-Hazcare App	Dr. Muhammad Zafri Bin Zainuddin / Dr. Mohd Zuhairi Bin Zainuddin	ZH Healthcare SDN BHD, Malaysia
	15:40-16:00	OSH in the New Normal for Resilient Workforce	Mr. Jeerawat Charoenpol	Thai Nippon Steel Engineering and Construction Corporation Ltd., Thailand
	16:00-16:20	Impending Approach of Behavior Based Safety (BBS) in Industries: Need and Importance	Mr. Narender Kumar / Dr. Pankaj Sharma	CBRE South Asia Pvt. Ltd. / Yokohama India Pvt. Ltd., India
Natheethong	17:30-20:30	Gala Dinner: Featuring Thai Dances, Traditional Shows, and “Loy Kratong” Celebration		



# APOSHO 38 CONFERENCE PROGRAM

16 November 2024

ROOM	TIME	ACTIVITIES / TOPICS	BY	POSITION AND ORGANIZATION
Krungthorn	08:30-09:00	Keynote Session 5: Economy, Social System and Occupational Safety and Health	Prof. Dr. Seong-Kyu Kang	President of The International Commission on Occupational Health
	09:00-09:30	Keynote Session 6: Musculoskeletal Disorders: Designing for a Healthier and Resilient Workforce	Prof. Dr. Mark Boocock	Center for Ergonomics and Human Factors, Occupational Safety, Auckland University, New Zealand
	09:30-10:00	Keynote Session 7: The Issue of Risk Assessment in Occupational Health Surveillance	Assoc. Prof. Dr. Sunisa Chaiklieng	Faculty of Public Health, Khon Kaen Uni., Thailand / International Affairs (OHSWA)
10:00-10:30		Morning Break		
Bongkotrat A	10:30-11:50	Concurrent Session 6: Issues on Ergonomics and Workplace Design		
	10:30-10:50	Lifelong hearing health	Mr. Nimit Thitipanawan	Maroogroge Co.,Ltd., Thailand
	10:50-11:10	The Effective Utilization of Self-Diagnosis Check List for Assessment of Worker's Accumulated Fatigue	Ms. Itsuki Mizui	Japan Industrial Safety and Health Association, Japan
	11:10-11:30	Seat Suspension Design for Reduction of Whole-Body Vibration of Forklift Drivers in Warehouse	Mr. Anuwat Kongjareon	Khon Kaen University, Thailand
	11:30-11:50	Ergonomics Risk on Musculoskeletal Disorders among Cultivated Agriculturists in Upper Northeastern, Thailand	Dr. Worawan Poochada	Khon Kaen University, Thailand
Bongkotrat B	10:30-11:50	Concurrent Session 7: Health Risk Assessment		
	10:30-10:50	Investigating the Causal Relationship between Low-Dose Environmental Cadmium Exposure and Bone Mineral Density in a Community-Based Cohort Study Using a Metabolomics Approach in Japan	Dr. Ryota Toki, M.D.	Keio University, Japan
	10:50-11:10	Health Risk Assessment of Formaldehyde Exposure among Hospital Staff in Histopathology Tissue Preservation	Ms. Fera Shima	Air Asia Aviation Management Services Sdn. Bhd., Malaysia
	11:10-11:30	Electronic Nose Technology for Odor and Environmental Monitoring	Dr. Teerakiat Kerdcharoen / Dr. Satetha Siyang	iNT Mahidol University / MUI Robotics Co., Ltd., Thailand
	11:30-11:50	The Study of Sensitivity, Specificity and Accuracy of the Developed Risk Matrix Compare with the Serum Cholinesterase Test	Ms. Chuthamas Chagkornburee	Faculty of Public Health, Khon Kaen University, Thailand
Krungthorn	10:30-11:50	Concurrent Session 8: New OSH Technologies & Innovation		
	10:30-10:50	Innovations and Impact of The Research Centre for Design for Safety in Hong Kong	Prof. Vincent Ho / Dr. Nicole Yiu	Dept. of Civil & Env. Engineering, The HK Polytechnic University, Hong Kong SAR
	10:50-11:10	Workplace Health Risk Assessment in a Geothermal Drilling Industry-Philippines	Mr. Rogelio V Dazo Jr.	Therma Prime Drilling Corp., Philippines
	11:10-11:30	Leveraging Digitalization for Enhanced Fitness-to-Work Assessments in Occupational Health	Dr. Shawaludin Bin Husin	OH Digital Solution SDN BHD, Malaysia
	11:30-11:50	Promoting Occupational Safety and Health through Development of a Mobile Application in Hong Kong, China	Mr. LI Wai-Kei	Labor Department of the HKSAR, Hong Kong SAR
Phung Nam	12:00-13:00	Lunch		



# APOSHO 38 CONFERENCE PROGRAM

16 November 2024

ROOM	TIME	ACTIVITIES / TOPICS	BY	POSITION AND ORGANIZATION
Bongkotrat A	13:00-14:00	Concurrent Session 9: Health Surveillance		
	13:00-13:20	Lead Poisoning Management in Seven Lead Factories in Samut Prakan Province: A Five Years Retrospective Cohort Study	Dr. Kate Chaivatcharaporn, M.D.	Occupational Medicine Dept. Samut Prakan Hospital, Thailand
	13:20-13:40	Factors Associated with Menopausal Disorders in Working Women in Japan	Dr. Miho Iida, M.D.	Dept. of Preventive Medicine and Public Health, KEIO University, Japan
	13:40-14:00	Prevalence of Hepatobiliary Diseases and Pesticide Exposure among Agricultural Workers in the Northeastern Region of Thailand	Assist. Prof. Dr. Kulthida Yasaka	Khon Kaen University, Thailand
Bongkotrat B	13:00-14:00	Concurrent Session 10: Current Practices on SHW & Emergency Responses		
	13:00-13:20	SDS Implementation and Intelligent Disaster Prevention Applications	Prof. Dr. Chi-Min Shu	National Yunlin University of Science & Technology, Taiwan (ROC)
	13:20-13:40	Emerging Risk of Smart Watch Usage at Plant Area and How to Manage It	Mr. Naziha Mohamed Nadzirin	Master of Occupational Safety and Health, Hasanuddin University, Indonesia
	13:40-14:00	Current Practices on SHW & Emergency Responses	Ms. Artchara Kamaon	Precise Electric Manufacturing Co., Ltd., Thailand
	14:00-14:20	Challenges in Utilizing Unmanned Aerial Vehicles (UAV) for Chemical Emergency Response	Assist. Prof. Dr. Kiattisak Batsungnoen	Suranaree University, Thailand
Krunghthon	13:00-14:20	Concurrent Session 11: Leadership & Safety Culture in The Workplace		
	13:00-13:20	Safety Ownership-The Missing Component?	Dr. David Thomas	Middlesex University, United Kingdom
	13:20-13:40	Reducing Workplace Fatalities through The Internalization of Safety Awareness	Mr. Seung-Won Seo	Korea Occupational Safety and Health Agency, Korea
	13:40-14:00	Advancing Sustainable Safety, Health, and Wellbeing: The Role of the OHS Body of Knowledge in the Asia-Pacific Region	Dr. Marilyn Hubner	Buildup Research, Australia
	14:00-14:20	History and Development of Occupational Safety, Health and Environment in Laos / INDUSTEK's Future Goals for Upgrade the Quality of OSHE in Laos	Mr. Phonesavanh Xaypanya / Dr. Jeffrey S.Birkner	IndusTek Co., Ltd, Laos
14:30-15:00		Afternoon Break		
Krunghthon	15:00-15:30	Keynote Session 8: Role of HSE on Successful ESG in Corporation and Sustainable Growth	Prof. Dr. Pisut Painmanakul	Engineering Faculty of Chulalongkorn University, Thailand
	15:30-16:00	Keynote Session 9: Tham Luang Cave Rescue Operation	Col. Bhak Loharjun, M.D.	Chief Medical Officer, Special Warfare Command Center, Lopburi, Thailand
	16:00-17:00	Special Wrap-Up Panel Discussion: "Towards the Sustainability on Safety, Health, and Wellbeing"	Prof. Dr. Peter Vink / Prof. Dr. Hisashi Eguchi / Dr. Tessa Bailey Moderator: Assoc. Prof. Dr. Sunisa Chaiklieng	Faculty of Industrial Design, Tu-Delft / Dept. of Mental Health Inst. of Industrial Ecological Sciences, Uni. of Occ. and Environmental Health / CEO of OPUS Centre for Psychosocial Risk
	17:00-17:15	Presentation of Awards: For Outstanding Poster Presentations	Special VIP's	SHAWPAT, OHSWA
	17:15-17:30	Conference Closing: Closing Addresses by Conference Chair and APOSHO Secretary General	Mr. Prasopchai Yuvaves / Mr. Bernie Doyle	Conference Chair / APOSHO Secretary General
Conference Closing				



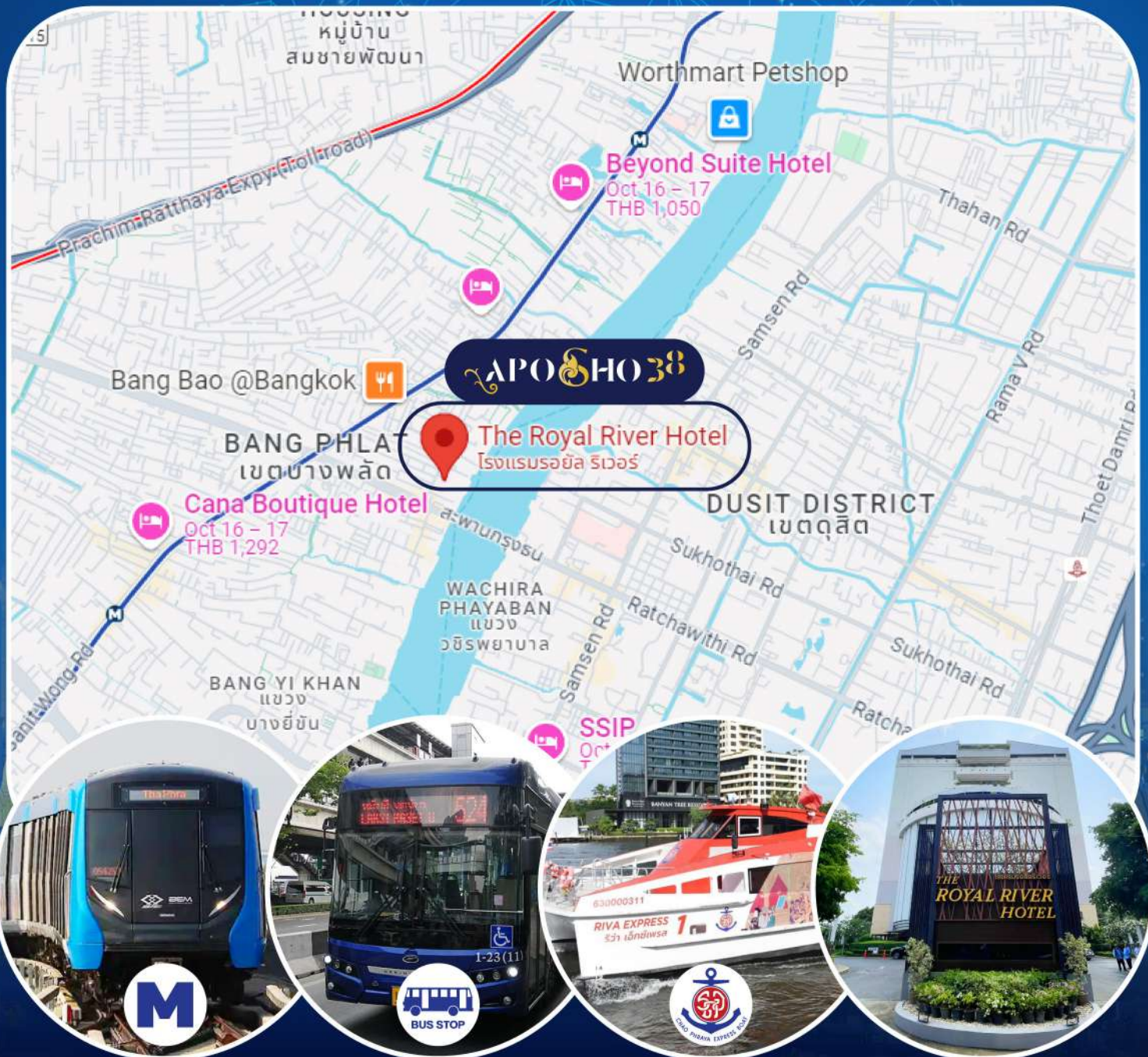
# POSTER PRESENTATIONS

NO	TITLE	PRESENTER	AFFILIATION
1	Study on the Effectiveness of Personal Cooling Products" to help SMEs and workers better prevent heat stroke-Hong Kong Experience	Mr. Victor Yip	OSHC, Hong Kong SAR
2	Digitization and Technological Solutions to Improve Safety and Well-being in the Work Environment-Hong Kong's Experience	Mr. Victor Yip	OSHC, Hong Kong SAR
3	Development of an Effective Balance Training Programme to Prevent Slip, Trip and Fall Accidents at Workplace	Mr. Victor Yip	OSHC, Hong Kong SAR
4	Health Risk Estimations on Discomfort lighting Condition of Workers in Universities, Hospitals and Industrial Plants Case Study in Lao PDR	Ms. Khamthavisouk Detchanthachack	Department of Environmental & Occupational Health and Safety, Faculty of Public Health, University of Health Sciences, Lao PDR
5	Occupational Safety And Health (OSH) School-Based Gamification Intervention For Primary School Children	Mr. Rama Krishna Supramanian	University Malaya, Malaysia
6	Occupational Safety and Health (OSH) School-Based Gamification Intervention for School Children	Dr. Bala Murali Sundram	University Malaya, Malaysia
7	A Study on the Association Between Cleanroom Work and Urinary Tract Infections.	Mr. Shih-Chieh Lin	Department of Family medicine, National Chung-Shan, Institute of Science & Technology, Taiwan
8	Reducing Musculoskeletal Pain in Ceramic Workers:	Dr. Wanpen Songkham	Faculty of Nursing, Chiang Mai University, Chiang Mai, Thailand
9	Emotional Labor and Job Stress among Nurses in Private Hospitals	Mr. Panodporn Issavanich	Faculty of Nursing Chiang Mai University, Thailand
10	Effect of a 3-Minute Mindfulness on Compassion Fatigue of Nurses in Intensive Care Units	Mr. Muansak Takabkho	Faculty of Nursing, Chiang Mai University, Thailand
11	Recycle Waste Management in Faculty of Dentistry Mahidol University During Covid-19 Pandemic	Mr. Chawalit Chommanee	Faculty of Dentistry Mahidol University, Thailand
12	Characterization and Health Risk Assessment of Particulate Matter (PM) Bound Heavy Metals from Traffic Intersections	Mr. Nawarat Namta	Suranaree University of Technology, Thailand
13	Indoor Air Quality For Risk Assessment in a Case of One Hospital in Thailand	Ms. Chananya Panikhom	M.Sc.Program in Occupational Health and Safety, Faculty of Public Health, Khon Kaen University, Thailand
14	The Mobile Application of FERA Ergonomics Program for Musculoskeletal Disorders Risk Assessment in Para Rubber tappers	Ms. Sureerat Bunkobkaew	M.Sc.Program in Occupational Health and Safety, Faculty of Public Health, Khon Kaen University, Thailand
15	Smart Application for Safety Observation Index	Ms. Thitaphorn Matad	B.Sc. Program in Environmental Health-Occupational Health and Safety, Faculty of Public Health, Khon Kaen University, Thailand
16	Enhancing Value through Segregation of Molding Waste from the FFP/BMS Process	Ms. Arunporn Susena	B.Sc. Program in Environmental Health-Occupational Health and Safety, Faculty of Public Health, Khon Kaen University, Thailand
17	Analysis of Exposure Levels for N-Hexane in South Korea	Ms. Hyeyoung Byun / Mr. Headong Park	Korea OSH Institute, Korea
18	Current Status of Korea's Proficiency Testing Scheme for Bulk Asbestos Analysis	Ms. Eunsong Hwang / Mr. Joonbeom kim / Ms. Eunji Lee	Occupational Safety and Health Research Institute, Republic of Korea
19	Improving Accuracy in Gravimetric Analysis of Coal Tar Pitch Volatiles	Ms. Eunji Lee / Ms. Jiwon Ro / Mr. Haedong Park	Occupational Safety and Health Research Institute, Republic of Korea
20	Enhancing workplace safety through PPE training: comparative case studies from Japan and Kazakhstan	Diana Kazbekova / Akira Ogami / Almas Kurmanov / Hajime Ando	Republican Research Institute for Occupational Safety and Health, Kazakhstan / Department of Work Systems and Health, Institute of Industrial Ecological Sciences of UOEH, Japan
21	From Blame Culture to Learning Culture: Application of HOP Principles in Incident Investigation to Address Repeat Root Causes	Sharmini S.	



# CONFERENCE VENUE

## THE ROYAL RIVER HOTEL BANGKOK, THAILAND



Google Maps



MRT (Blue line) : Sirindhorn (BL06)



BUS : 1-23 (524), 18, 203, 4-19 (108,542), 4-38 (28), 4-49 (170), 542



Chao Phraya Express Boat (Orange Flag), Krungthon Bridge (Sung Hi) (N16)

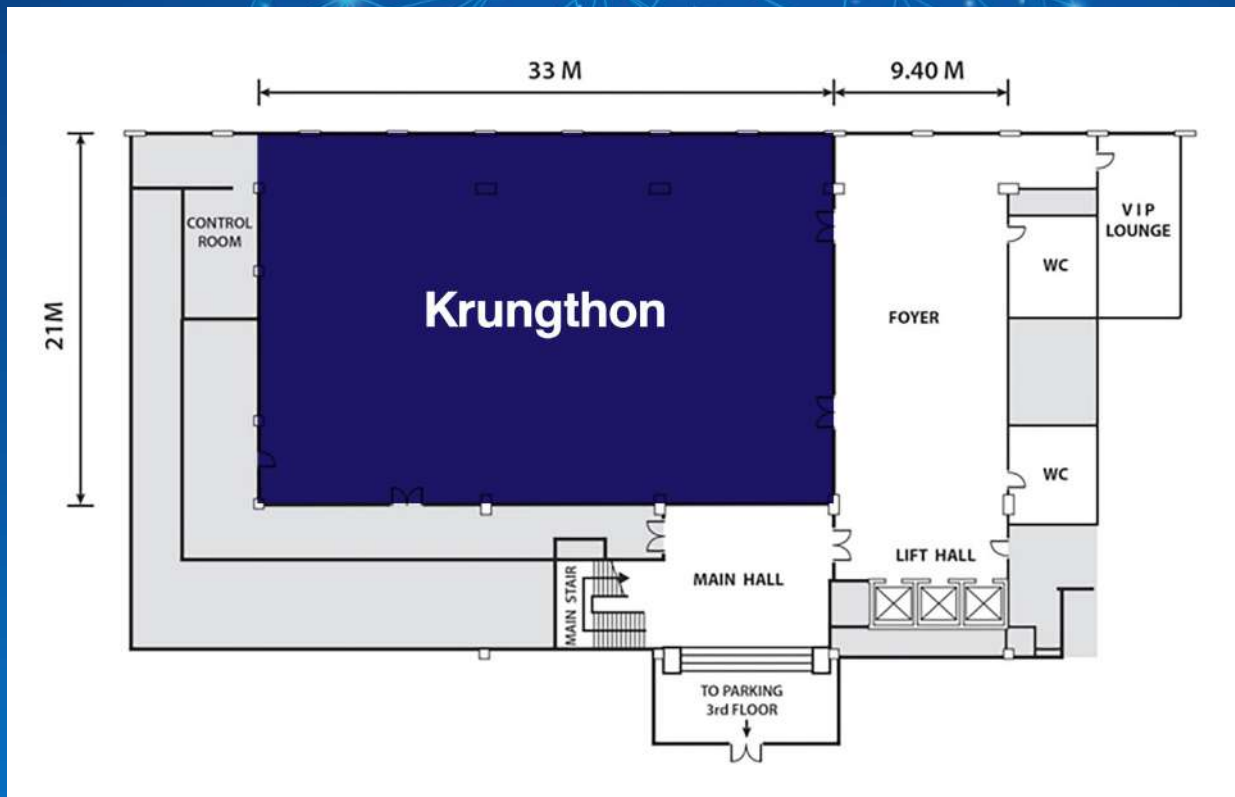


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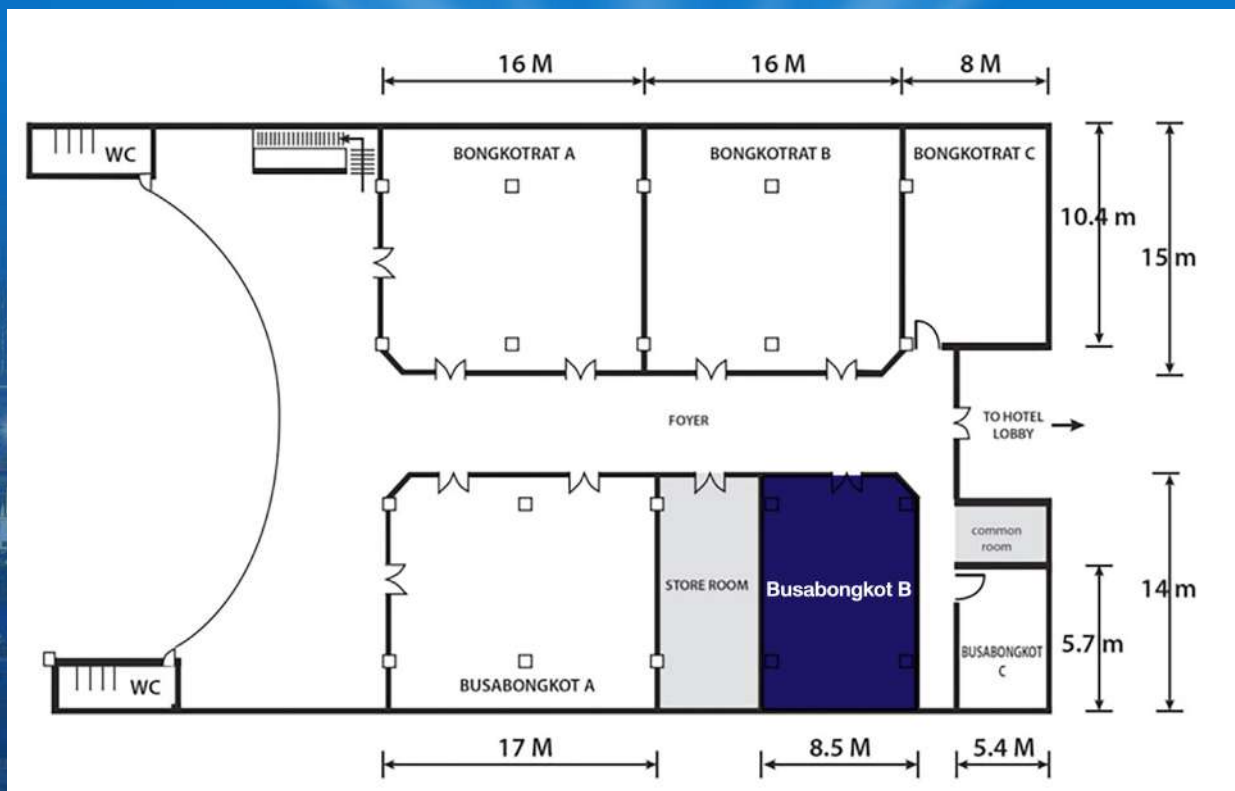


# CONFERENCE LAYOUT

## Krungthon - Floor 3

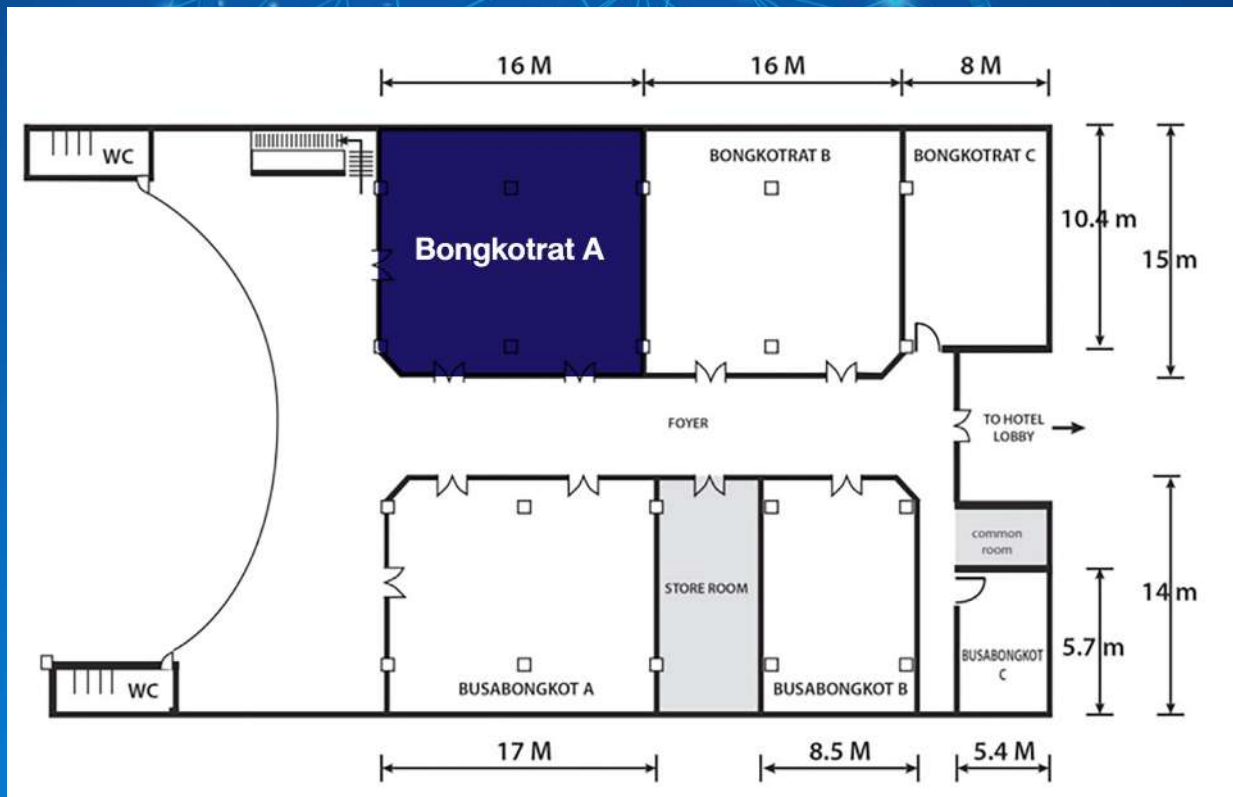


## Busabongkot B - Floor 2

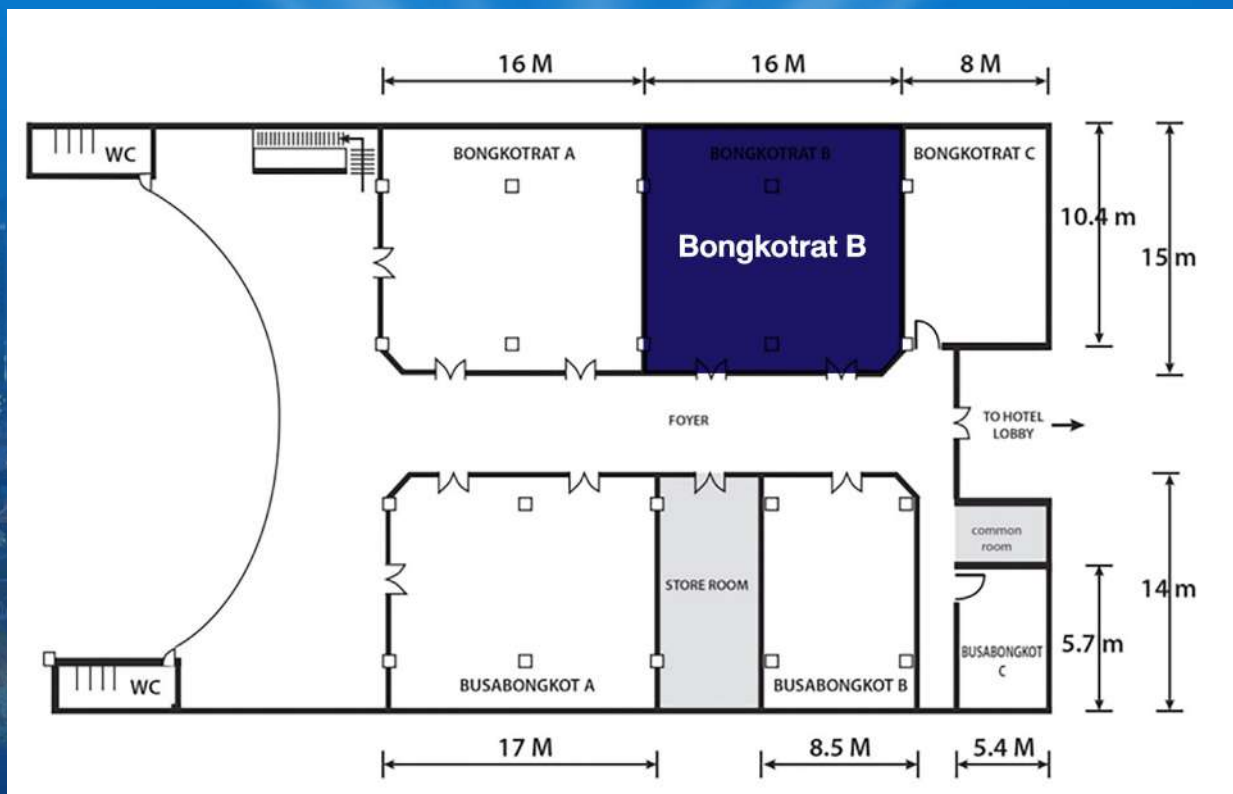


# CONFERENCE LAYOUT

## Bongkotrat A - Floor 2



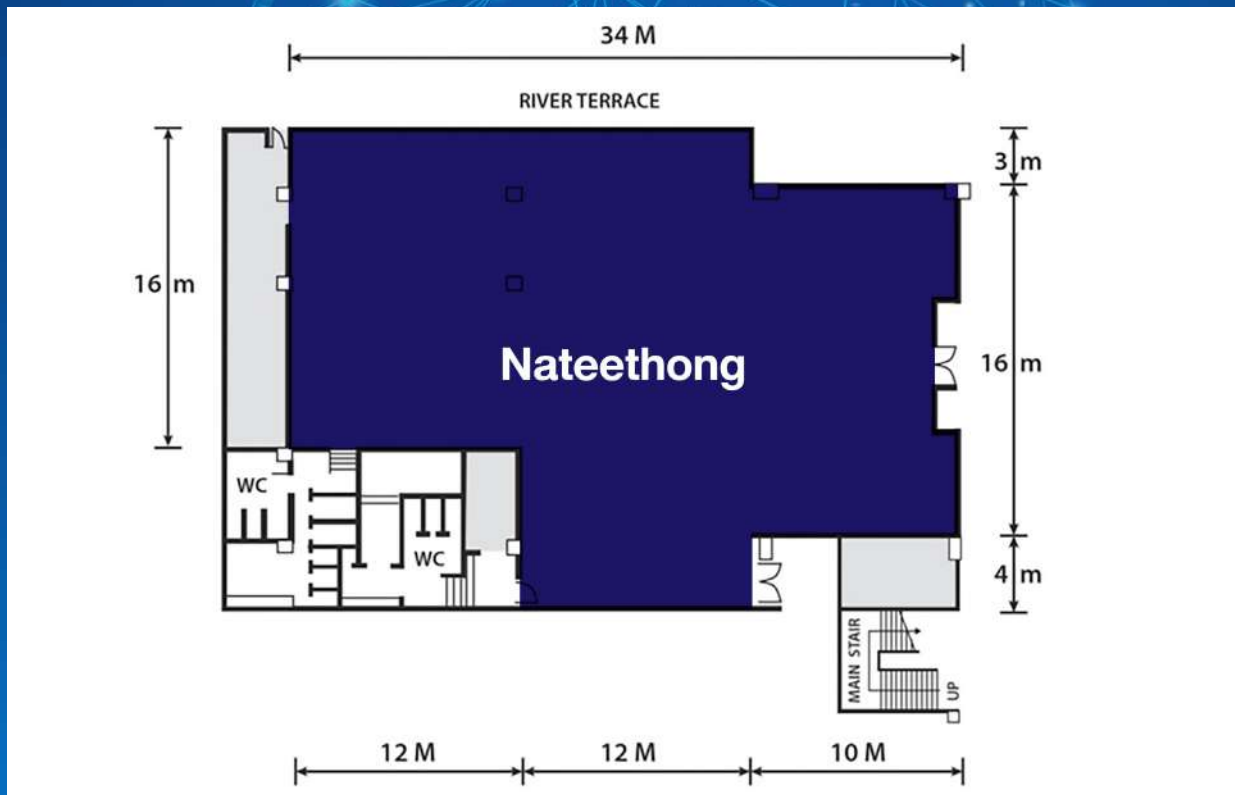
## Bongkotrat B - Floor 2



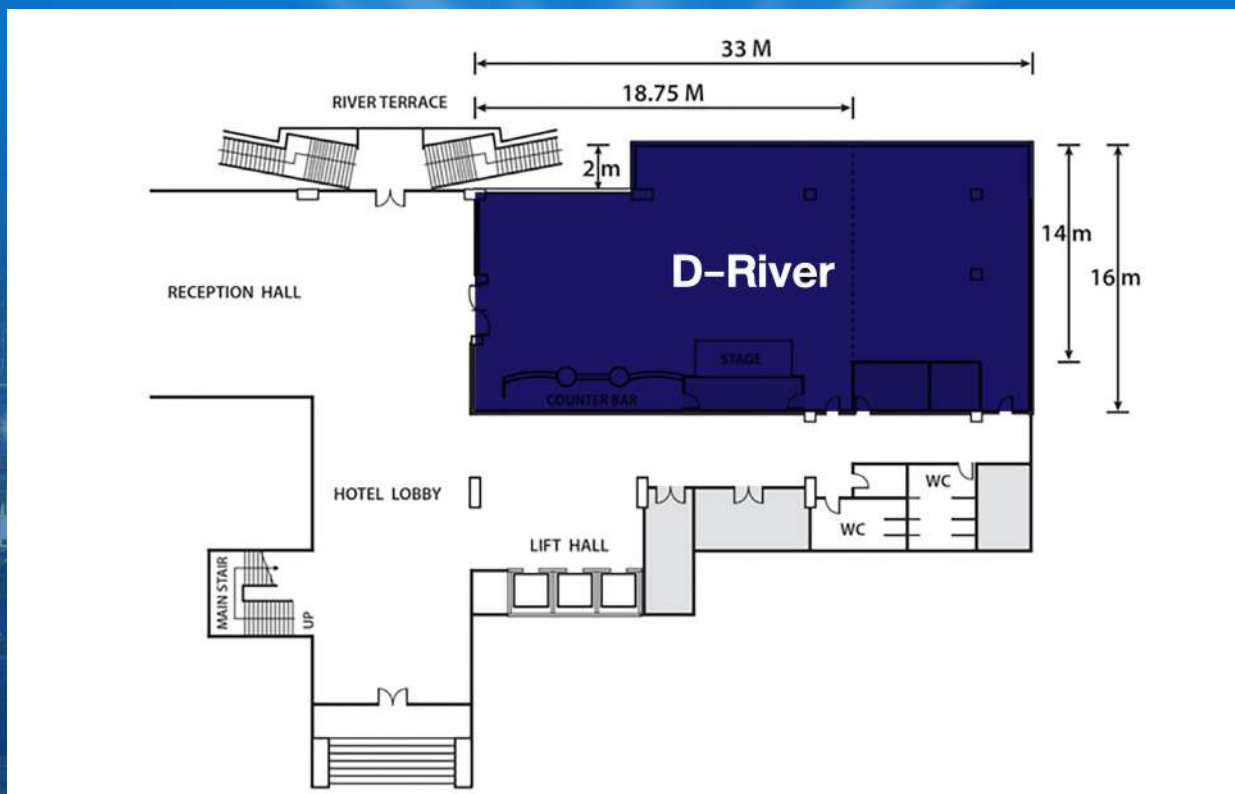


# CONFERENCE LAYOUT

## Nateethong - Floor G

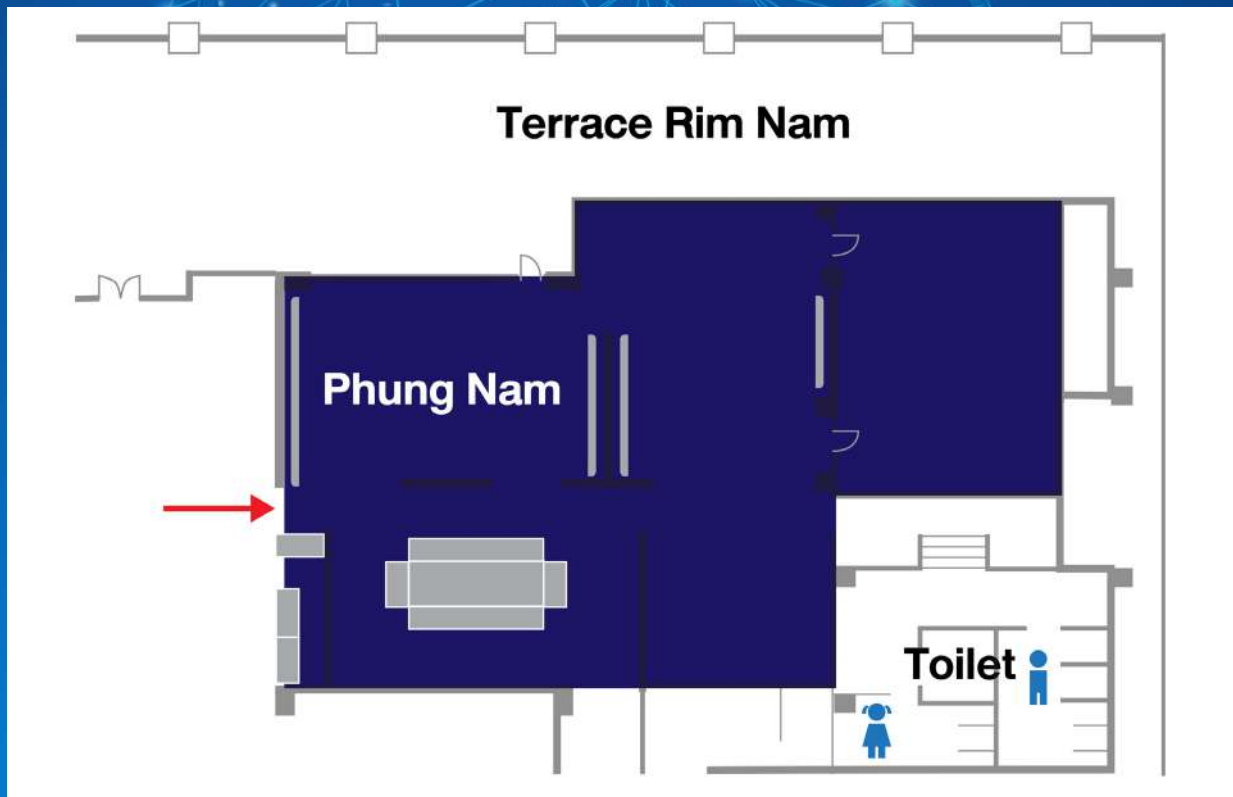


## D-River - Floor L



# CONFERENCE LAYOUT

## Phung Nam - Floor G

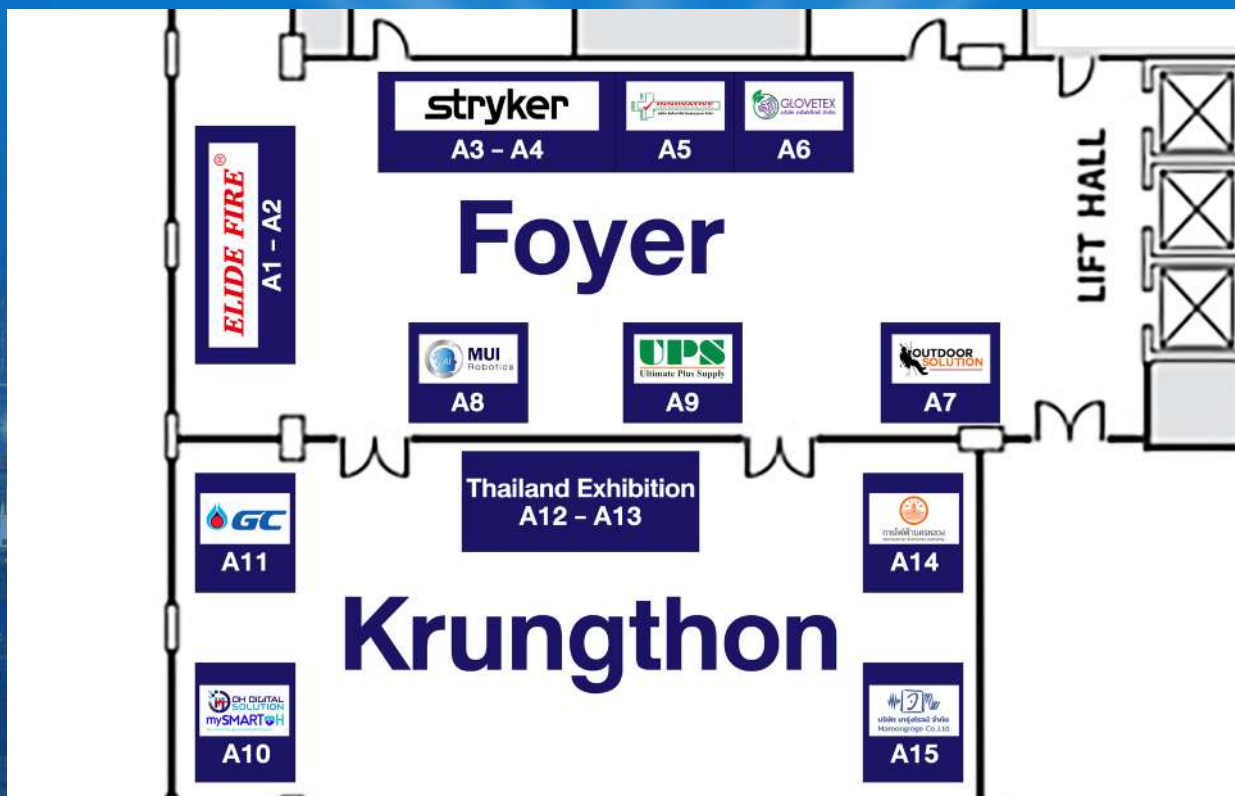




# EXHIBITION MAP

NO.	COMPANY NAME	COUNTRY	BOOTH NO.
1	Elide Fire	Thailand	A1-A2
2	Stryker	Singapore	A3-A4
3	Innovative Instrument	Thailand	A5
4	Glovetex	Thailand	A6
5	Outdoor Solution	Thailand	A7
6	MUI Robotics	Thailand	A8
7	Ultimate Plus Supply	Thailand	A9
8	OH Digital Solution	Malaysia	A10
9	PTT GC	Thailand	A11
10	MEA	Thailand	A14
11	Maroogroge	Thailand	A15

## Krungthon - Floor 3



# EXHIBITORS



**ELIDE FIRE®**

## ELIDE FIRE Ball Pro Co., Ltd.

ELIDE FIRE Ball Pro Co., Ltd. is a global leader in automatic fire suppression. Originating from Thailand over 25 years ago, we proudly hold the patent for the revolutionary Automatic Fire Fighting Ball. Designed to enhance safety effortlessly and efficiently, our product empowers individuals and organizations worldwide to effectively prevent and control fires. With a footprint in every continent and exports to over 120 countries, our headquarters and manufacturing facilities remain in Thailand, continually advancing the frontier of fire safety through relentless innovation and unwavering dedication to excellence.



## Innovative Instrument Co., Ltd.

Innovative Instrument Co., Ltd. is a leading provider of advanced measuring instrument and solutions for Occupational Health and Safety, HVAC, Environmental Monitoring and Research, dedicated to delivering high-quality instruments and services to various applications with a strong commitment to provide innovation, precision, reliability and customer satisfaction. According to vision protecting health and environment, our company has built a reputation for excellence through diverse product portfolio, which includes high-performance equipment, calibration, pre-sales and after-sales service. The company prides on robust development capabilities, continuously pushing the boundaries of what's possible in the field of instrumentation.



## PTT GC

PTT Global Chemical Public Company Limited, or GC, is dedicated to be a leading global chemical company that enhances people's lives with innovative plastics and chemicals following our vision of Chemistry for Better Living. We operate a business that prioritizes the balance of environmental, social, and corporate governance alongside economic (ESG) efficiency, aiming to maximize resource use under the Circular Economy concept. GC focuses on innovating products and solutions that address megatrends while meeting the expectations of all stakeholders.

GC is driving toward becoming a low-carbon organization while ensuring sustainable business growth by setting clear strategies and plans, with aims to reduce greenhouse gas emissions for 20 percent by 2030 on our journey towards achieving Net Zero by 2050.



## OUTDOOR SOLUTION Co., Ltd.

OUTDOOR SOLUTION GROUP Your Safety, Our Priority  
With over 30 years of experience, Outdoor Solution Group is your trusted partner in ensuring the highest quality products and services for your business. Safety is our number one priority. We offer a comprehensive range of high-quality products, work-at-height solutions, and rescue training. Our services are conducted by a team of highly trained professionals, certified by C.A.M.P. ITALY and other recognized institutes. Additionally, we provide a complete range of Personal Protective Equipment (PPE) to ensure your safety from head to toe.



# EXHIBITORS



**GLOVETEX**  
บริษัท กลฟเท็กซ์ จำกัด

## GLOVETEX (Thailand) Co., Ltd.

We always work hard to create high-quality products and invent new technology for the modern and develop the products. Not only to satisfy the customers but also to provide the best customer support services: to ensure that the products meet and are suitable for the customers's needs, to provide impressive after-sales service, or to solve the customer's problems closely.

We are major companies in Thailand which produce and distribute personal protective equipment products. We secondly are an import and export trading company to many world-class brands. In addition, we have experts who will be ready to train and give advice on using protective equipment in the industry. Moreover, We mainly aim at the quality and standards of our products. And of course, our products must be certified to meet standards before being released into the market.



**การไฟฟ้านครหลวง**  
Metropolitan Electricity Authority

## MEA

Core Business Distribution of electricity in three provinces, viz. Bangkok Metropolis, Nonthaburi and Samut Prakan with a total area of 3,192 square kilometers. Mechanisms are available for delivering electric energy by purchasing electric power through generation system and power transmission system from the Electricity Generating Authority of Thailand (EGAT) and Very Small Power Producers (VSPP), and transmission through MEA's power distribution systems to four main groups of electricity users, namely residential, business, industrial and government consumers.



**Ultimate Plus Supply**

## Ultimate Plus Supply Co., Ltd

Ultimate Plus Supply Co., Ltd is a full-service importer and distributor of personal and environmental safety equipment. Established in 2007 with the vision of being one of the leaders in importing and distributing high-quality personal and environmental safety equipment. First, we only select international quality products that are environmentally friendly for the sustainability of the surrounding society. Second, we reduce loss of life and injuries from work accidents among employees. Third, we increase work efficiency and promote increased factory profit, which has operated since it was accepted and standardized according to the ISO 9001 quality system. With our operating standards that are internationally accepted, we have become the market leader for high-quality personal and environmental safety equipment with more than 2000 items.



**บริษัท มารุ่งโรจน์ จำกัด**  
Maroongroge Co.,Ltd.

## Maroongroge Co., Ltd.

Maroongroge Co., Ltd. has been providing import and distribution services for hearing aids and hearing-related medical devices for over 42 years. We are the authorized distributor for leading global manufacturers, including Resound, Rexton, and GSI. Our focus is on product quality and after-sales service, supported by a team of engineers trained directly by the manufacturers. We have earned the trust of general customers, state and private hospitals across the country, as well as medical schools and ENT clinics, in delivering hearing aids and medical devices."

# EXHIBITORS



**MUI**  
Robotics

## MUI Robotics Co., Ltd.

MUI Robotics Co., Ltd. is a leading developer and manufacturer of advanced AI-driven odor sensing technologies. Specializing in electronic nose solutions, we offer state-of-the-art environmental monitoring systems that cater to a broad spectrum of industries.

Our innovative Enose platform provides businesses with real-time odor tracking and monitoring capabilities, specifically designed for sectors such as food and beverage, agriculture, chemical processing, waste management, environmental services, and automotive. From profiling environmental odors to generating detailed smell contour maps, our technology delivers precise, actionable data that enhances quality control and fosters innovation.

At MUI Robotics, we are committed to empowering professionals, researchers, city authorities, and industrial operators with reliable and efficient odor detection and monitoring solutions. Whether optimizing production environments or ensuring regulatory compliance, our comprehensive suite of tools serves as a trusted resource for environmental management. For cutting-edge environmental monitoring, MUI Robotics is your all-in-one partner.

**stryker<sup>®</sup>**

## STRYKER

Stryker Corporation is an American multinational medical technologies corporation based in Kalamazoo, Michigan. Stryker's products include implants used in joint replacement and trauma surgeries; surgical equipment and surgical navigation systems; endoscopic and communications systems; patient handling and emergency medical equipment; neurosurgical, neurovascular and spinal devices; as well as other medical device products used in a variety of medical specialties.



## OH DIGITAL SOLUTION SDN. BGD.

OH DIGITAL SOLUTION SDN BHD (OHDS) is a health-tech company incorporated in 2020 and leading in transforming occupational safety & health (OSH) process to digital way in Malaysia. OHDS began its business activities focusing on digital innovative and introduced MYSMARTOH and currently pursuing the services of OSH product supplies and in focus of providing the best service in the Occupational Safety & Health.

MySMARTOH, the most comprehensive online occupational safety & health solution was designed to cater & connect all Employers, OH Doctors (OHD) and other relevant OH-industry professionals. All subsequent improvements & features added were with the sole purpose to digitalize all OSH-related tasks & store securely relevant data as per requirements & compliance to legislations & regulations.

With a simple & 'easy on the eyes' user interface, along with a multi-device accessibility, MySMARTOH solution is the only right choice for organizations & OHDs to automate common OSH tasks, as well as efficiently streamline the entire reporting process and to promote employee well-being by effectively managing work-related injury, illness and other health risks.