



MIHA·ICE '26
International Conference & Exhibition

MIHA International Conference & Exhibition 2026

*'Shaping A Healthier Tomorrow Through Prevention, Resilience
& Sustainable Innovation'*

26 – 27 October 2026

Concorde Hotel, Kuala Lumpur, Malaysia

CONFERENCE GUIDE

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Welcome Message

Recent years have seen encouraging growth in Industrial Hygiene (IH) practices globally, fuelled by advancements in exposure science and heightened attention to occupational health risks. Coupled with the increasing prevalence of occupational diseases, these developments call for decisive and collaborative action by regulators and industry leaders to reinforce preventive strategies for safeguarding workers' health. As an advocate of a preventive OSH culture with a mission to safeguard workers' health, the Malaysian Industrial Hygiene Association (MIHA) is pleased to invite organisations and individuals who share this commitment to be part of the MIHA International Conference and Exhibition 2026 (MIHA.ICE'26), to be held at the Concorde Hotel, Kuala Lumpur, Malaysia, from 26–27 October 2026.

The theme of MIHA.ICE'26, "Shaping a Healthier Tomorrow through Prevention, Resilience and Sustainable Innovation" reflects the need to advance proactive industrial hygiene practices, strengthen adaptive and resilient health protection systems, and promote innovative, sustainable solutions to safeguard worker health in an evolving world of work. This conference aims to serve as a dynamic platform for knowledge sharing, professional networking, and the exchange of ideas that drive meaningful and positive change within the IH profession. MIHA.ICE'26 will bring together local and international OSH practitioners, experts, and industry stakeholders to share the latest developments in IH, including research findings, best practices, and valuable lessons learned. MIHA remains committed to fostering an environment where Industrial Hygienists and OSH professionals can collaborate effectively in protecting workers' health while supporting organisational values. We firmly believe that strong OSH performance contributes to improved quality of life, enhanced productivity, and overall societal well-being.

The conference and exhibition will feature a comprehensive programme comprising Professional Development Courses (PDCs), an International Student Symposium, plenary, podium and poster paper presentations, technical exhibitions, and networking platforms. These segments are designed to facilitate knowledge exchange, accelerate learning, and promote practical solutions among experienced practitioners, researchers, and emerging young Industrial Hygienists.

Join us today and make a difference.

Sincerely,

Marina Zainal Farid, *CIH, CPIH*
MIHA.ICE'26 Conference Chair
MIHA President 2026/28



Full Programme Agenda

Day 1: 26 October 2026 | Monday

Time (hr)	Agenda	
07:30 - 09:00	Registration & Arrival	
09:00 - 09:10	Safety Briefing, Do'a Recitation & Platinum Sponsor Video Showcase	
09:10 - 09:40	Plenary 1: Muthia Ashifa President, Indonesian Industrial Hygiene Association (IIHA) <i>'Beyond Compliance: Driving Prevention, Resilience, & Sustainable Innovation in Industrial Hygiene & Occupational Health Management'</i>	
09:40 - 10:10	Plenary 2 : Prof. Perng-Jy (PJ) Tsai President, Asian Network of Occupational Hygiene (ANOH) <i>'Developing Surrogate Methods for Conducting Comprehensive Occupational Exposure Assessments'</i>	
10:10 - 11:00	Networking Break / Visit to Exhibition Booth / Poster Presentation	
11:00 - 12:30	Concurrent Session A	
	Session 1: Designing Healthier Workplaces Through Prevention-Through-Design	Session 2: Advancing Worker Health Through Exposure-Driven Prevention Strategies
12:30 - 14:00	Lunch Break / Visit to Exhibition Booth / Poster Presentation	
14:00 - 15:00	Concurrent Session B	
	Session 3: Emerging Risks & Resilient Solutions for Worker Health	Session 4: Resilient People, Resilient Operations
15:00 - 15:30	Networking Break / Visit to Exhibition Booth / Poster Presentation	
15:30 - 15:40	Singing of National Anthem, Safety Briefing & Do'a Recitation	
15:40 - 15:50	Welcome Performance	
15:50 - 16:00	Welcoming Remarks by Marina Zainal Farid, CIH, CPIH President of Malaysian Industrial Hygiene Association (MIHA)	
16:00 - 16:20	Officiation by YBrs. Ir. Ts. Hajah Hazlina Yon Director General, Department of Occupational Safety & Health (On behalf of the Minister of Human Resources, Malaysia)	
16:20 - 16:25	Group Photo	
16:25 - 16:50	Keynote Address: YBrs. Ir. Ts. Hajah Hazlina Yon Director General, Department of Occupational Safety & Health (DOSH) Malaysia <i>'Future Occupational Safety & Health (OSH) Priorities Towards 2030'</i>	
16:50 - 17:15	Plenary 3: Kerry Cheung, COH President, International Occupational Hygiene Association (IOHA) <i>'IOHA Nexus - Connecting Malaysia to the World of Occupational Hygiene'</i>	
17:15 - 18:00	VIP Visit to Exhibition Booth / Poster Presentation	
18:00	End of Day 1	

Full Programme Agenda

Day 2: 27 October 2026 | Tuesday

Time (hr)	Agenda	
08:50 - 09:00	Welcome by Emcee & Kahoot Quiz	
09:00 - 09:30	Plenary 4 : YBr. Prof. Dr. Azlan Darus Head Prevention, Medical & Rehabilitation Department, Social Security Organization (SOCSO) Malaysia <i>'Revisiting Occupational Diseases in Malaysia - Diagnosed, Surveillance and Challenges'</i>	
09:30 - 10:00	Plenary 5 : Samuel Curtis, CIH Director & Principal Industrial Hygienist, MSC Professional Services Pty Ltd, Australia <i>'Notes from the Field – Unique Industrial Hygiene Encounters from Around the World'</i>	
10:00 - 10:30	Plenary 6: Dr. Keng Been Ang Managing & Board Director, SKC Asia HSE Sampling Technologies Pte. Ltd., Singapore <i>"From Sensors to Insights: Real-Time Monitoring Shaping Healthier Workplaces and Sustainable Innovation"</i>	
10:30 - 11:00	Networking Break / Visit to Exhibition Booth / Poster Presentation	
11:00 - 12:30	Concurrent Session C	
	Session 5: Digital Intelligence for Smarter Health Protection	Session 6: Sustainable Innovations in Exposure Control and Risk Reduction
12:30 - 14:00	Lunch Break / Visit to Exhibition Booth / Poster Presentation	
14:00 - 15:30	Concurrent Session D	
	Session 7: Engineering Tomorrow's Workplace Health	Session 8: Reinventing Workplace Health Through Smarter Policies & Social Innovation
15:30 - 15:50	Networking Break / Visit to Exhibition Booth / Poster Presentation	
15:50 - 16:30	Dialogue Session: 'Shaping A Healthier Tomorrow Through Prevention, Resilience & Sustainable Innovation' Moderator: Azizin Zainudin, CPIH - MIHA CPIH Board Member & Past MIHA Vice President Panelist 1: Kerry Cheung, COH - President, IOHA Panelist 2 : Prof. Perng-Jy (PJ) Tsai - President, ANOH Panelist 3: Aleks Todorovic - Immediate Past President, AIOH	
16:30 - 17:00	Closing Ceremony - Lucky Draw - Award Recognition - Closing Remarks	
17:00	Adjourn	



Concurrent Sessions Agenda

Day 1: 26 October 2026 | Monday

Concurrent Session A : Session 1 & 2

Session 1: Designing Healthier Workplaces Through Prevention-Through-Design			Venue: Concorde Ballroom
Moderator: Wan Sabrina Wan Mohamad, CIH, CPIH			
C1-1	11:00 – 11:30	Integrating Industrial Hygiene Prevention Through Design into Front-End Engineering to Eliminate Occupational Health Hazards	Ts. Masfarita Mustafa - PETRONAS
C1-2	11:30 – 12:00	Integrating Human Factors Engineering and Industrial Hygiene During the Design Stage: A Prevention-by-Design Framework for Safe Facilities	Megat Amirul Hakim - Monaco Engineering Solution
C1-3	12:00– 12:30	Beyond Complex Engineering: Real-world Practical Prevention through Design (PtD) solutions in Chemical Risk Management	Noormahani Harun – QMSRPO Sdn Bhd
Session 2: Advancing Worker Health Through Exposure-Driven Prevention Strategies			Venue: Concorde V
Moderator: Norhazlina Mydin, CIH, CPIH			
C2-1	11:00 – 11:30	PtD-Based Ergonomic Intervention Using Mechatrolley with Integrated Hose Wheel System for MSD Prevention	Khairul Nazmi Lufti Ismail - PETRONAS
C2-2	11:30 – 12:00	A Prevention-Centric Approach to Lead Hazard Management in Storage Tanks Using Exposure-Based Assessment.	Raymond Joseferd - ExxonMobil
C2-3	12:00– 12:30	Health Risk Assessment in an Indonesian Tugboat Shipping Company: Focus on Noise, Benzene, and Indoor Air Quality Exposure	Dr. Betharia S. Butarbutar - Pertamina, Indonesia



Concurrent Sessions Agenda

Day 1: 26 October 2026 | Monday

Concurrent Session B : Session 3 & 4

Session 3: Emerging Risks & Resilient Solutions for Worker Health			Venue: Concorde Ballroom
Moderator: Ts. Haszelina Hassan, CPIH			
C3-1	14:00 – 14:30	Development and Pilot Validation of the Climate-Resilient Worksite Readiness Scale among Construction Workers in Malaysia	Dr Dayana Hazwani Mohd Suadi Nata – Universiti Kebangsaan Malaysia
C3-2	14:30 – 15:00	PFAS Exposure: What Are the Health Risks of These 'Forever Chemicals'?	Dr Joost G.M. VAN ROOIJ – Caesar Consult
Session 4: Resilient People, Resilient Operations			Venue: Concorde V
Moderator: Nurul Ain Zali			
C4-1	14:00 – 14:30	Enhancing Control Room Operator Resilience Through Human Factors Engineering: Integrating Ergonomics, Situational Awareness and Occupational Health	Abdul Harizul Mustaqim – Monaco Engineering Solution
C4-2	14:30 – 15:00	Human Performance in Emergency Response: Managing Effective Evacuation	Dr Taram Satiraksa Wan Abdullah – TS Learning Services



Concurrent Sessions Agenda

Day 2: 27 October 2026 | Tuesday

Concurrent Session C : Session 5 & 6

Session 5: Digital Intelligence for Smarter Health Protection			Venue: Concorde Ballroom
Moderator: Aliff Firdaus Mat Yusoff, CIH			
C5-1	11:00 – 11:30	Safeguarding Data Integrity in AI-Driven OSH Management and Compliance Reporting	Xenna Sum Lee Min - SafeHaus Consultancy & Training Services
C5-2	11:30 – 12:00	Ai-X™ Human Emotion Dynamics for Organizational Resilience: Addressing the Human Factor of Artificial Intelligence Integrating Health, Safety and Business Continuity	G Sukhdev Singh Ranu - RanuPDS Asia
C5-3	12:00– 12:30	From Fragmented References to Digital Guidance: Simplifying Chemical PPE and RPE Selection for Consistent Risk Control	Naczathul Faeza Ismail - PETRONAS
Session 6: Sustainable Innovations in Exposure Control and Risk Reduction			Venue: Concorde V
Moderator: Noormahani Harun			
C6-1	11:00 – 11:30	Rethinking Chemical Exposure Monitoring: Integrating Continuous Direct Monitoring into Risk-Based Industrial Hygiene	PMA - PETRONAS
C6-2	11:30 – 12:00	Setting and Interpreting Alarms on Portable Gas Detectors in an Era of Lower Workplace Exposure Limits	Aleks Todorovic - AES Australia
C6-3	12:00– 12:30	Think Outside the Duct: A Low-Cost Engineering Solution for Offshore Air Dryer Purge Noise	PMA - PETRONAS



Concurrent Sessions Agenda

Day 2: 27 October 2026 | Tuesday

Concurrent Session D : Session 7 & 8

Session 7: Engineering Tomorrow's Workplace Health			Venue: Concorde Ballroom
Moderator: Ts. Dr. Ismaniza Ismail			
C7-1	14:00 – 14:30	Factory of Future- Eliminating Manual Material Transportation through the integration of Automated Storage and Retrieval System, Floor Mounted Overhead Transporter and Intelligent Autonomous Robots in Semiconductor Manufacturing	Masliyana Izzati – Texas Instruments
C7-2	14:30 – 15:00	Predict Before You Produce: Using Acoustic Simulation to Safely Increase Offshore Flaring Capacity	Mohamad Kamarul Zafri Mohamad Rafi - PETRONAS
C7-3	15:00 – 15:30	Prevention-Through-Design for MSD Risk Reduction: Ergonomic Engineering Control Using an LPG Cylinder Stacker	Syawalina Azwani Hussain - PETRONAS
Session 8: Reinventing Workplace Health Through Smarter Policies & Social Innovation			Venue: Concorde V
Moderator: Associate Professor Dr Ng Yee Guan			
C8-1	14:00 – 14:30	From Legacy Practices to Evidence-Based Health Governance: How CHRA Drove the Modernization of a 28-Year-Old Industrial Laboratory	Nurul 'Izzah Zahari - PETRONAS
C8-2	14:30 – 15:00	Gap Analysis of Knowledge, Attitudes, And Practices (Kap) On Noise-Induced Hearing Loss (NIHL) Among Audiometric Centers and Private Hospitals in Malaysia: Compliance with ICOP 2019	Rozi Hartini Hamid – One Gasmaster Sdn Bhd
C8-3	15:00 – 15:30	Transforming Thermal Stress Management Through Quick Thermal Work Limit (TWL) Reference Charts for Upstream Oil and Gas Operations	Thishalini AP Amirthlingam - PETRONAS



Poster Presentation

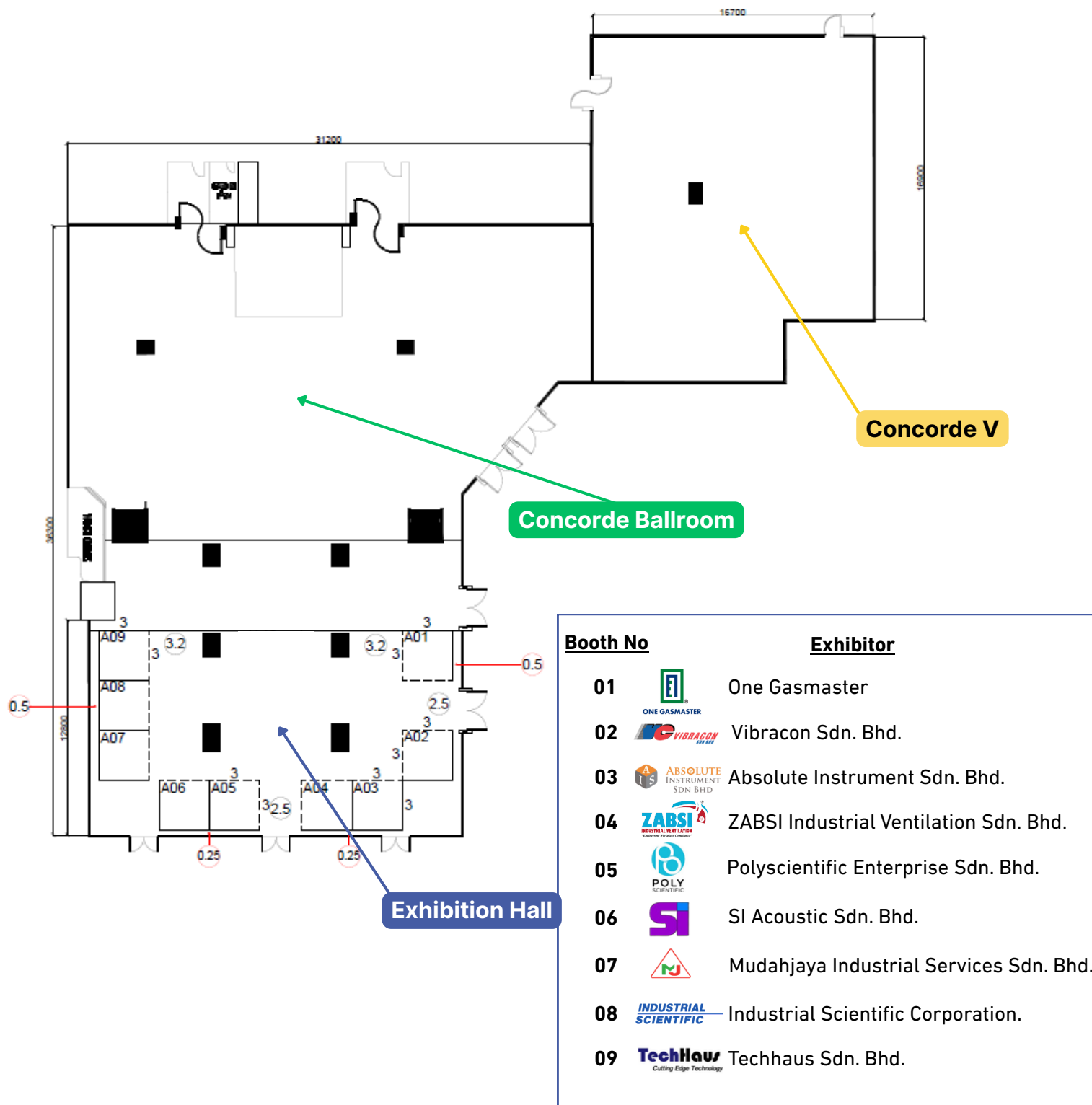
26- 27 October 2026 | Monday - Tuesday

No.	Title	Presenter
1	Improving Ventilation Plan Quality and Verification Practices to Strengthen Worker Health Protection: A Sabah Asset Experience	M Ridhwan Salman - PETRONAS
2	Integrated Occupational Health Surveillance as a Low-Cost Predictive Screening Tool: Linking Self-Reported Exposures with Objective Medical Findings to Advance Prevention and Resilience in a Cement Plant (2023-2025)	Dr. Andy Riva Dana - PT Semen Padang, Indonesia
3	Safe Home Re-Occupation After Domestic Fire Incidents: Industrial Hygiene Insights from Putra Height Case	Umar Abdul Aziz - PETRONAS
4	Exposure and Health Risk Assessments Associated with Polycyclic Aromatic Hydrocarbon (PAH) Emissions from the Use of Scented Candles	Dr. Chun-Yu Chen - National Cheng Kung University, Taiwan
5	Integrating Safety Critical Task Analysis into Occupational Health Risk Management in Oil and Gas Facilities	Megat Amirul Hakim - Monaco Engineering Solution
6	Demystifying Industrial Hygiene and Occupational Health Through Risk Communication - A Sabah Asset Experience	Rahazimah Alzahrah Abu Bakar Sadiqin - PETRONAS
7	Institutionalising Heat Stress Risk Management in Project-Based Environments: A Case Study with a Decision-Based TWL Governance Approach	M Iqbal Masri - PETRONAS
8	Beyond Periodic Testing: Real-Time Gas Monitoring for Safer Confined Space Entry	Farah Nafeesa - PETRONAS
9	Practical Acoustic Camera Diagnostics for Industrial Noise Management	Mohd Farid Mohamad - Quadrant 2 Technologies Sdn Bhd
10	Cardiometabolic Risk Factor Clustering Among Employees in the Cement Industry: Findings from a Three-Year Occupational Health Surveillance Program	Dr. Andy Riva Dana - PT Semen Padang, Indonesia
11	Beyond Illuminance: Understanding Lighting and Visual Discomfort in Screen - Intensive Workplaces	Amy Lee Ai Ping - Sarawak Energy Berhad



Event & Exhibition Floor Plan

26 - 27 October 2026 | Monday - Tuesday



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Booth 05



Booth 06



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Scientific Review Panel



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