

Wednesday - November 27, 2024

14:00-17:00	Registration <i>Location: Exchange Lobby, Centennial Hall</i>
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Thursday - November 28, 2024

9:00-12:00	Lab. Tour <i>Kyushu University International Research Center for Hydrogen Energy</i>
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12:30-13:30	Welcome Coffee Registration <i>Location: Exchange Lobby, Centennial Hall</i>
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Opening *Location: Main Hall*

Chair Assoc. prof. Tomohiro Tobino

13:30	Opening remarks Prof. Yoshiko Tsuji, Chair of ACSEL2024, The University of Tokyo
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13:40	Welcome address Executive Vice President, Yoshimi Sonoda, Kyushu University
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Plenary Session *Location: Main Hall*

Chair Prof. Yoshiko Tsuji

13:50 PI-01	Current Status and Future Perspectives of Hydrogen Energy Pro. Kazunari Sasaki, Kyushu University, Japan
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14:30 PI-02	Safety Culture Maturity Assessment Instrument - Providing Insights and Intelligence on Individuals Mindset on Safety Dr. Peck Thian Guan, National University of Singapore, Singapore
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15:00 KY-01	Pre-emptive Life Cycle Thinking for Green Transformation in University Prof. Yasunori Kikuchi, The University of Tokyo, Japan
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15:30-16:00 **Coffee Break** *Location: Hall 1, 2, 1st floor*

Technical Session Poster Presentation *Location: Conference Room 1, 2, 3, 2nd Floor*

15:30-16:00 **odd numbered presentation**

16:00-16:30 **even-numbered presentation**

16:30-16:50 **Free discussion**

P-01	A24-003 Potential of a Natural-based Agent from Breadfruit Leaves to Reduce Pesticide Toxicity in Southeast Asia's Rural Greenhouse Suyud Warno Utomo, Universitas Indonesia, Indonesia
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P-02	A24-006 Improving the Aeration of Waste Stabilization Ponds for Sorghum Waste Treatments in Southeast Asia Using Nanobubble Technology Suyud Warno Utomo, Universitas Indonesia, Indonesia
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P-03	A24-007 Association between Human Error and Occupational Accidents Nalendra, PT PLN (Persero), Indonesia
P-04	A24-010 From Fossil Fuel to Biodiesel: Paving the Way for a Sustainable Indonesia A Study Case Based on the Carbon Footprint Assessment of BUMA Tabang Diah Prabandani, PT Bukit Makmur Mandiri Utama (BUMA), Indonesia
P-05	A24-012 Development of VR Teaching Materials to Experience Experimental Equipment Accidents for Bio/Medical Students Akiko Kashiwagi, Tottori University, Japan
P-06	A24-015 Bridging Safety Maturity: Lessons from Indonesian Regulations and Adopting UK Coal Industry Practices as BUMA Safety Maturity Model (SMM) Ajeng Puspitaning Pramayu, Universitas Indonesia, Indonesia
P-07	A24-017 From Fossil Fuel to Biodiesel: Paving the Way for Assessment of Carbon Footprint: A Study Case of BUMA Jobsite IPR, Kalimantan Island, Indonesia Diah Prabandani, PT Bukit Makmur Mandiri Utama (BUMA), Indonesia
P-08	A24-018 Fire Safety Compliance of Laboratories: Regulatory Perspectives and Insights Christopher Tan, Singapore Institute of Technology, Singapore
P-09	A24-020 Addressing the Environmental Impact of Laboratory Ice Packs: A Three-Year Study Prakash Hande, National University of Singapore, Singapore
P-10	A24-021 Use of Instagram to Promote Lab Safety Wayne Lim Xian Feng, Singapore Institute of Technology, Singapore
P-11	A24-024 Encouraging Voluntary Reporting of Lab Accidents by Student Helpers Fathollah Zakee Bin Fatholmoein, Singapore Institute of Technology, Singapore
P-12	A24-029 Chemical Security Implementation on Synthesis of Poly (Vinyl) Acetate Emulsion Assisted by Different Hydrolysis Degree of Protective Colloid Agent Mas Ayu Elita Hafizah, Republic of Indonesia Defense University (RIDU), Indonesia
P-13	A24-031 A Study on the Improvement Plan of Certification of Exemplary Laboratory in Safety Management Dong Hyun Shin, Metropolitan Research Safety Center, Republic of Korea
P-14	A24-032 Occupational Exposures Strategy Zoey Khoo, NUS Alumni SHE Society, Singapore
P-15	A24-033 Application Process Safety Principles for Laboratory Safety Management Kok Hwa Lim, Singapore Institute of Technology, Singapore

P-16	A24-034 Enhancing Lineman Safety Culture through the Lineman Campus: A Case Study of PT PLN (Persero) UID Jakarta Raya Cendya Quaresvita, PLN Indonesia, Indonesia
P-17	A24-035 Damaged Lithium-Ion Battery Caused Fires Kenji Iino, The University of Tokyo, Japan
P-18	A24-036 Pseudomonas Azelaica, Serratia marcescans, and Xanthomonas maltophilia for Domestic Wastewater Treatment Yuli Wichayo, PLN Indonesia, Indonesia
P-19	A24-037 Fatigue Condition And Workload of Nurses in 4 High Demand Unit in Educational Hospital Meilisa Rahmadani, University of Indonesia, Indonesia
P-20	A24-038 The Comparison of Physical Health Condition between Indonesian Pre-Retired Workers in Rural and Urban Area Indri Susilowati, Universitas Indonesia, Indonesia
P-21	A24-039 Incidents and Near Misses Reported in Jakarta Customs Laboratory Robiana Modjo, Universitas Indonesia, Indonesia
P-22	A24-040 Managing Natural Hazards to Increase Reliability of Electricity in Indonesia Andhy Setyawan, PT PLN (Persero), Indonesia
P-23	A24-042 A Dual Approach in Chemical Management Xiyu Fei, NUS (Suzhou) Research Institute, China
P-24	A24-046 In What Ways does Strain Impact Work-related Musculoskeletal Disorders among Manufacturing Workers? Abdul Kadir, Universitas Indonesia, Indonesia
P-25	A24-047 Types of Fatigue among Drivers of Coal Mining in Indonesia Hendra Djamalus, Universitas Indonesia, Indonesia
P-26	A24-048 Risk Assessment and Mitigation of Health Impacts Associated with Aspects of Office Ergonomics among University Academic Staff during Covid-19 Pandemic Sjahrul Meizar Nasri, Universitas Indonesia, Indonesia
P-27	A24-049 The Profile of Safety Climate in a Mineral Mining Industry in Indonesia Baiduri Widanarko, Universitas Indonesia, Indonesia
P-28	A24-050 Improving the Accuracy of Manhours and Manpower Calculations through Person on Board (POB) Data Integration Fatma Lestari, Universitas Indonesia, Indonesia

P-29	A24-052 Effectiveness of “Mercury Traps” to Prevent a Release of Mercury Used in Student’s Experiment into Wastewater from Laboratory Yuriko Hamada, Kagoshima University, Japan
P-30	A24-053 Evaluation of Laboratory Safety Management through Annual Safety Self-Inspection at Nagoya University Rumiko Hayashi, Nagoya University, Japan
P-31	A24-054 Structure-property and Structure-activity Relationships of Bisphenol Derivatives as Estrogen Receptor Modulators Tomomi Noguchi-Yachide, The University of Tokyo, Japan
P-32	A24-055 Assessing the Safety Impact of Income Targets and Passenger Pressure on Jakarta’s Online Motorcycle Taxi Riders Zulkifli Djunaidi, Universitas Indonesia, Indonesia
P-33	A24-056 Interactive Chemical Safety Inspection with a Checklist Kengo Katayama, Kumamoto University, Japan
P-34	A24-058 Review of After-hours Laboratory Access Protocols for Faculty of Science Amanda Burns, Queensland University of Technology, Australia
P-35	A24-059 Risk Assessment of Mercury in Soil from a Mercury-contaminated Landfill Using Medaka Fish Yuka Sakai, Prefectural University of Kumamoto, Japan
P-36	A24-060 Research on Steam Gasification Technology Using Plastic Waste Takahiro Nakamichi, Nagasaki Institute of Applied Science, Japan
P-37	A24-061 Safety Education of Chemical Substances in Yamaguchi University Isamu Fujiwara, Yamaguchi University, Japan
P-38	A24-062 Mercury Contamination and Health Risk Associated with Sediment from Birim River, Ghana Margaret Boohene, Prefectural University of Kumamoto, Japan
P-39	A24-063 Assessment of Metals Contamination, Distributions of Sources and Ecological Risks in Sediment from Urban and Suburban Areas in Myanmar Pyae Sone Soe, Prefectural University of Kumamoto, Japan
P-40	A24-064 Multi Points Real-time Monitoring of TVOC in Chemical Laboratories Yukiko Nezu, The University of Tokyo, Japan
P-41	A24-065 Development of an AI-based Object Detection System to Assist the Visually Impaired in their Experiments Chizuru Kurosawa, The University of Tokyo, Japan
P-42	A24-067 Evaluation of Protease Activity from Microorganisms Derived from Okara Haruka Ishida, Prefectural University of Kumamoto, Japan

P-43	A24-068 Evaluation of the State of Fume Hoods in a Single Photo Using Machine Learning: the Relationship between Expert Judgment and Actual Usage Conditions Ai Shuhara, The University of Tokyo, Japan
P-44	A24-069 Demonstration of Methane Fermentation High-temperature Solubilization Process through Pilot Tests Naomichi Takemoto, Fukuoka Women's University, Japan
P-45	A24-072 Establishment of Chemical Risk Assessment System in RIKEN Yuta Fujii, RIKEN, Japan
P-46	A24-073 Patient Satisfaction with Healthcare Service on Covid Safety Aliya Diandra, Universitas Indonesia, Indonesia
P-47	A24-074 Evaluation of the Biological Effects of New PFAS such as GenX on Microorganisms and Caenorhabditis Elegans Emi Morokuma, Prefectural University of Kumamoto, Japan
P-48	A24-078 Characterizing Greenhouse Gas Emissions at the University of Tokyo Yasunori Kikuchi, The University of Tokyo, Japan
P-49	A24-043 Implementation of Hospital Occupational Health: The Strength and The Weaknesses L. Meily Kurniawidjaja, Universitas Indonesia, Indonesia
P-101	A24-102 Depolymerization of Lignin in Woody Biomass for Attaining Platform Chemical Derivatives Osamu Sawai, The University of Tokyo, Japan
P-102	A24-103 Hazardous Agent Exposure in Research Labs Using Korea's K2B Database Jeongim Park, SoonChunHyang University, Republic of Korea
P-103	A24-104 The Andragogy and Heutagogy behind Emergency Preparedness Jun Ji Lim, National University of Singapore, Singapore
P-104	A24-105 Proactive Security Strategies for Open Research Laboratories Yi Hua Lim, National University of Singapore, Singapore
P-105	A24-106 Study on Improving Biosafety Management Compliance : By the Inspection Results from LMO Research Facilities June-Bong Kim, Korea Research Institute of Bioscience and Biotechnology, Republic of Korea
P-106	A24-107 Enhancement of Safety Practice of Research Laboratory in Thailand Thanaporn Bussabawalai, National Research Council of Thailand, Thailand
P-107	A24-108 Thailand's Chemical Laboratory Safety Network and their Management Sirichai Divasiri, The National Research Council of Thailand, Thailand

P-108	A24-109 Enhancing Contractor Safety in Coal Mining: A Study on the Implementation and Impact of CSMS at Maruwai Coal Indonesia Rafiah Al Qodri, PT Maruwai Coal, Adaro Minerals Indonesia, Indonesia
P-109	A24-110 Bridging the Safety Maturity Level Gap: A Comprehensive Assessment Strategy for PT Maruwai Coal (Adaro Minerals Indonesia) Rafiah Al Qodri, PT Maruwai Coal, Adaro Minerals Indonesia, Indonesia
P-110	A24-111 NTU Hazard Notice System (HNS): Safety and Health Excellence at Your Doorstep Xiaoqian Liu, Nanyang Technological University (NTU), Singapore
P-111	A24-112 Examination of Permeation Resistance of Chemical Gloves Made of Laminate-Film Materials against Chemical Substances Takamasa Aoki, Kyushu Institute of Technology, Japan
Networking Session by Sponsored Companies <i>Location: Exchange Lobby, Centennial Hall</i>	
15:30-16:50	
Technical Session <i>Location: Main Hall</i>	
Chair Prof. Jeongim Park	
16:50 O-01	A24-026 Predicting Chemical Hazards from Structures - A Deep Learning Approach Takaaki Harada, Nagoya University, Japan
17:10 O-02	A24-075 Emergency & Disaster Management in Indonesia's Education Institution Fatma Lestari, Universitas Indonesia, Indonesia
Banquet <i>Location: Hakata Hyakunen-gura</i>	
18:30	

Friday - November 29, 2024

8:30	Welcome Coffee Registration <i>Location: Exchange Lobby, Centennial Hall</i>	
Technical Session Oral Presentation		
<i>Location: Main Hall</i>		<i>Location: Hall 3</i>
Session : Laboratory Safety Management Chair Prof. Perng-Jy Tsai		Session : Recycling of Resources Chair Prof. Manabu Sumida
9:10 O-11	A24-051 Power of One SingHealth Institutional Biosafety Committee Watson Teo, Singapore Health Services, Singapore	9:10 O-31 A24-071 Composition Survey of Plastic Waste to Promote Plastic Recycling in Universities Tomohiro Tobino, The University of Tokyo, Japan

9:30 O-12	A24-041 Enhancement of Laboratory Safety According to the ESPReL Guidelines: A Case Study in the Central Research Laboratory of the Department of Zoology, Faculty of Science, Kasetsart University Kamonporn Masawang, Kasetsart University, Thailand	Session : Safety Education Chair Prof. Manabu Sumida	
		9:30 O-41	A24-057 The 'how to' of HSE Supervision for Academic Supervisors Amanda Burns, Queensland University of Technology, Australia
9:50 O-13	A24-066 Airflow Analysis in Downflow Ventilation: Impact of Simulated Human Motion Enrique Stolz, The University of Tokyo, Japan	9:50 O-42	A24-023 Hydrogen Safety: An Analysis of the Hydrogen Incidents and Accidents Database HIAD 2.1 Shen Lu, Singapore Institute of Technology, Singapore
10:10 O-14	A24-011 Enhancing Laboratory Inspections with AI and GPT Technology Zoey Zhou, Singapore Institute of Technology, Singapore	10:10 O-43	A24-009 Safety & Health Management Systems and Performance Award in NTU: A Step Towards Sustainable Safety & Health Culture Edward Pariwono, Nanyang Technological University, Singapore
10:30-10:50 Coffee Break <i>Location: Hall 3, 1st floor and Conference Room 1, 2, 3, 2nd floor</i>			
Session : Safety & Health Protection Chair Dr. Watson Teo		Session : Safety Education Chair Prof. Fatma Lestari	
		10:50 O-44	A24-025 Evaluating and Improving Safety Education for Diverse Students in University Chemistry Laboratory Fathollah Zakee Bin Fatholmoein, Singapore Institute of Technology, Singapore
11:10 O-21	A24-005 Establishing Partnership between Regional Governmental Labor Inspection Agencies and Regional University Occupational Safety and Health Allies from 2020 to 2023 in Taiwan Perng-Jy Tsai, National Cheng Kung University, Taiwan	11:10 O-45	A24-070 What do Prospective Japanese Teachers Imagine the Science Laboratory of the Future to be Like? Manabu Sumida, Ehime University, Japan
11:30 O-22	A24-044 Chemical Safety and Security Assessment of Heritage Site Restorations and its Potential Implications for Archaeological Worker Health Adonis Muzanni, Universitas Indonesia, Indonesia	11:30 O-46	A24-028 Analysis of the Effectiveness and User Experience of Employing Virtual Reality to Enhance the Efficacy of Occupational Safety and Health Learning for Electrical Workers and Graduate Students Ari Prayogo Pribadi, Universitas Gadjah Mada, Indonesia
11:50 O-23	A24-030 Strategy of Industrial Hygiene & Occupational Health Implementation in Integrated Energy Company Muthia Ashifa, PT Adaro Energy Indonesia TBK, Indonesia	11:50 O-47	A24-014 Enhancing Laboratory Safety Training with Virtual Reality Immersion Andrew Jun De Ng, National University of Singapore, Singapore

12:10-13:10	Lunch Buffet <i>Location: Conference Room 1, 2, 3, 2nd floor</i>
Technical Special Session <i>Location: Main Hall</i>	
Chair Prof. Yoshito Oshima	
13:10 S-11	Introduction Yoshiko Tsuji, The University of Tokyo, Japan
13:20 S-12	Sustainable Risk Management in Laboratories through Strategies, Frameworks and Methods A. Sarvanan Gunaratnam, Nanyang Technological University, Singapore
13:40 S-13	Improving Safety Culture – An Australian University Experience Megan Clark, Australian Safety Association for Universities, Australia
14:00 S-14	Recent Shift of Chemical Substances Management in Japan and Actions Taken in the University of Tokyo Teppei Nunoura, The University of Tokyo, Japan
14:20	Summary
Closing <i>Location: Main Hall</i>	
Chair Assoc. prof. Tomohiro Tobino	
14:40	Poster Awards Ceremony
14:50	Announcement
14:55	Closing remarks