



42nd Conference of the ASEAN Federation of Engineering Organisations

22 - 24 OCT 2024 Sabah International Convention Centre

CONFERENCE PROGRAM

DAY 1 | TUESDAY | 22 OCTOBER 2024

SIPADAN 2-3	
07:30 AM - 09:00 AM	Registration
09:00 AM - 11:40 AM	Opening Ceremony
11:40 AM - 11:55 AM	Morning Break
11:55 AM - 12:25 PM	SESSION 1: Navigating Business Evolution: Navigating Digital Transformation in Engineering and Organisational Development Speaker: Ir. Abdul Razak Yakob , Faazmar Technology (Malaysia) Session Chair: Ir. Vincent Tan HK
12:25 PM - 12:55 PM	PAPER 1 Cultural and Organisational Barriers in Well Digitalisation Implementation Speaker: Ir. Abdul Razak Yakob , Faazmar Technology (Malaysia) PAPER 2 Use of Generative Artificial Intelligence in the Civil Engineering Education in the Philippines Speaker: Florante D. Poso , FEU Institute Of Technology (Philippines)
12:55 PM - 01:25 PM	Question and Answer - Presentation of Memento
01:25 PM - 02:25 PM	Lunch
02:25 PM - 02:55 PM	Keynote Address 1 Leading Kota Kinabalu's Journey: Smart Engineering, Digital Transformation, and Green Solutions for ASEAN's Sustainable Growth Speaker: Dato' Sri Dr. Haji Sabah bin Samitah , Kota Kinabalu Mayor
02:55 PM - 03:25 PM	PAPER 3 Exploring Digital Evolution in the Design and Implementation of Nusantara, Indonesia's New Capital Speaker: Alfa Adib Ash Siddiqi , Ministry of Public Works and Housing (Indonesia)
03:25 PM - 03:55 PM	SESSION 2: Streamlining Processes: Automation and Optimisation in the Digital Era Session Chair: Ir. Lee Tet Fon
03:55 PM - 04:25 PM	PAPER 4 Engineering Digital Transformation: The Business Opportunities and Challenges Speaker: Ir. Prof. Dr. Tan Chee Fal , Infrastructure University Kuala Lumpur (Malaysia)
04:25 PM	Question and Answer - Presentation of Memento
04:30 PM - 09:30 PM	Announcement / End of Day 1 Welcome Reception - Join us for an evening of networking at the Sipadan 1 Hall featuring live entertainment and opportunities to engage with peers and industry leaders

DAY 2 | WEDNESDAY | 23 OCTOBER 2024

SIPADAN 2-3	
08:30 AM - 09:00 AM	Keynote Address 2 Future Direction of AFEO on Regional Connectivity and Technological Advances Speaker: Ir. Prof. Dr. Jeffrey Chiang Choong Lun , AFEO Chairman / IEM President (Malaysia)
09:00 AM - 09:30 AM	SESSION 3 Connected Engineering: Leveraging Digital Networks for ASEAN's Growth Session Chair: Ir. Ts. Dr Michael Tay Tshung Wang
09:30 AM - 10:00 AM	PAPER 5 Empowering Smart Engineering: The Role of the AFEO Aerospace Alliance Sub Group in Enhancing Aerospace Capabilities of AFEO Member Countries Speaker: Ir. Ricky Liew Chee Leong , Corporate Jet MRO (Malaysia) PAPER 6 Assessing the Potential for Digital Transformation in Brunei's Construction Industry: A Roadmap for Integrating Advanced Technologies Speaker: Ir. Chin Lee Tuck , Institute of Engineers, PUJA (Brunei)
10:00 AM - 10:20 AM	Question and Answer - Presentation of Memento
10:20 AM - 10:35 AM	Tea Break
10:35 AM - 11:05 AM	PAPER 7 Machine Learning and Industry 4.0 Speaker: Engr. KYI Tharr , Federation of Myanmar Engineering Societies (Myanmar)
11:05 AM - 11:35 AM	SESSION 4 Smart Engineering - Machine Learning and AI in Modern Engineering Session Chair: Datuk Ir. Ts. Br. Dr Amarjit Singh
11:35 PM - 11:55 AM	PAPER 8 Knowledge Management Application on Digital Transformation in a Supply Chain Management: An Empirical Study at SharePro Inc. for Advanced Supply Chain Operation Speaker: Justine Roy Salinado , (Philippines) PAPER 9 Potential of Water Reclamation Using Treated Sewage Effluent for Non-Potable Usage: A Malaysian Perspective Speaker: Lee Yun Fook , Sepakat Setia Perunding Sdn Bhd (Malaysia)
11:55 AM - 12:15 PM	Question and Answer - Presentation of Memento
12:15 PM - 01:15 PM	Lunch
01:15 PM - 01:45 PM	Keynote Address 3 JKR Sabah Perspective and Experience Speaker: Datuk Philemon Lojawai , JKR Director
01:45 PM - 02:15 PM	SESSION 5 Engineering Tools for the Future: Innovation in Real-Time Monitoring and Renewable Systems Session Chair: Ir. Andrew Amaladoss
02:15 PM - 02:45 PM	PAPER 10 Real-time Seismic Monitoring System for a Base Isolated Building: The Malaysian Rubber Board's Experience Speaker: Muhammad Umar Zulkifli , Malaysian Rubber Board (Malaysia) PAPER 11 Smart Renewable Energy: Advanced Materials, Intelligent Systems, and Emerging Applications for Sustainable Future Solution Speaker: Dr. Rahadian Nopriantoko , Ministry Of Energy And Mineral Resources - Indonesia (Indonesia)
02:45 PM - 03:10 PM	Question and Answer - Presentation of Memento
03:10 PM - 03:25 PM	Tea Break
03:25 PM - 03:55 PM	PAPER 12 Newly Developed of Waste Derived Materials for Backfilling Underground Cable Application Speaker: Ts. Nur Amira Nor Arifin , TNB Research Sdn Bhd (Malaysia)
03:55 PM - 04:25 PM	SESSION 6 Creating Value: Innovative Engineering for a Sustainable Future Session Chair: Ir. Tan Yoke Lee
04:25 PM - 04:55 PM	PAPER 13 Optimizing Materials and Building Design for the Circular Economy in Bali: A Case Study of Architectural Projects Speaker: Ngakan Ketut Acwin Dwijendra , Udayana University (Indonesia)
04:55 PM	Question and Answer - Presentation of Memento
04:55 PM - 06:00 PM	Announcement / End of Day 2

DAY 3 | THURSDAY | 24 OCTOBER 2024

SIPADAN 2-3	
08:30 AM - 09:00 AM	Keynote Address 4 Energy Security and Sustainability in Oil, Gas and Energy Industry in Sabah - Ir. Ts. Mohd Yaakob Bin Hj Jaafar IEM Sabah Chairman
09:00 AM - 09:30 AM	SESSION 7 Renewable Futures - Harnessing Smart Technologies for Sustainable Energy Session Chair: Ir. Ts. Tan Kok Jyh
09:30 AM - 10:00 AM	PAPER 14 Singapore's Implementation of the Active, Beautiful, Clean (ABC) Waters Concept as a Sustainable Solution to Climate Change Speaker: Er. David Ng , One Smart Engineering Pte Ltd (Singapore) PAPER 15 ASEAN Renewable Energy Certificate (RECs) Myth or Reality Speaker: Ir. Nirinder Singh Johl , Asia Carbon Change Pte Ltd (Malaysia)
10:00 AM - 10:20 AM	Question and Answer - Presentation of Memento
10:20 AM - 10:40 AM	Tea Break
10:40 AM - 11:10 AM	SESSION 8 Sustainable Engineering - ESG Practices Shaping the Future Session Chair: Ir. Fung Yin Khun
11:10 AM - 11:40 AM	PAPER 16 Enhancing ESG in Engineering Processes and Services Speaker: Ir. Van Wey Tyng , LJV Consult Sdn. Bhd. (Malaysia) PAPER 17 Green Solutions in Curriculum Development at Higher Education Institutes (HEIs) in Myanmar for UK Engineering Council Accreditation Degrees Speaker: Ir. Wai Wai Thaw , STI Myanmar University (Myanmar)
11:40 AM - 12:10 PM	Question and Answer - Presentation of Memento
12:10 PM - 01:10 PM	Lunch
01:10 PM - 01:40 PM	SESSION 9 Engineering Circularity - Towards a Sustainable, Net - Zero Economy Session Chair: Datuk Ir. Peter Lajumin
01:40 PM - 02:10 PM	PAPER 18 SMART CITY needs Sustainable Development (Transport and Mobility-place) Speaker: Alan Wong , @W Sustainable Development (Malaysia) PAPER 19 Financing the Development and Implementation of Green Technologies to Achieve Net Zero Speaker: Kavata Cheillah , Opus Energy Sdn Bhd (Malaysia)
02:10 PM - 02:40 PM	Question and Answer - Presentation of Memento
02:40 PM	Announcement / End of Day 3
06:00 PM - 10:00 PM	Closing Dinner - Conclude CAFE 42 with a memorable evening at Sipadan Hall 2 & 3 hosted by IEM and the Sabah Government. This is an opportunity to reflect on the conference's key takeaways and celebrate the future of ASEAN engineering.

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