

Presentation Schedule - 11th Asia Pacific Structural Engineering & Construction Conference (APSEC)

Parallel Session 1 – Mesmera 1				
Time	Topic	ID	Title	Authors
10:45 AM	Safety and Reliability	17	Mapping Access to Green Space in Penang, Malaysia: A GIS-Based Study	Massoomeh Hedayati Marzbali, Nurfarahin Roslan, Aldrin Abdullah, Mohammad Javad Maghsoodi Tilaki
11:00 AM	Safety and Reliability	23	The Blockchain Use Case for Occupational Safety and Health Audit System	Rafizah Musa, Mohamad Syazli Fathi, Zeeshan Aziz
11:15 AM	Safety and Reliability	68	Risk Assessment of Natural Gas Pipelines Incorporating GIS and Lidar: A Bibliometric Analysis	Siti Norhayati Zonol, Libriati Zardasti
11:30 AM	Structural Health Monitoring	8	Dynamic data reconstruction for vibration-based damage detection using Convolutional Variational Autoencoder utilising spatial correlations	Kah Hong Lee, N Bakhary, KC Yon, Mohd Zamri Ramli, and Sarehati Umar
11:45 AM	Structural Health Monitoring	65	Structural Health Monitoring of Concrete Bridge Girders Using Strain Data and Neural Networks	Abdulwahab Amoun, Mohammadreza Vafaei, Sophia C Alih
12:00 PM	Structural Health Monitoring	71	Advancement of Artificial Intelligence Architecture for Offshore Structural Health Monitoring	Nurul Haryani Mazlan, Nurul Azizah Mukhlas, Norhazilan Md Noor, Noor Irza Mohd Zaki, Mohd Khairi Abu Husain
12:15 PM	Structural Health Monitoring	87	Performance of Segmental Box Girder Under Traffic-Induced Resonance on Elevated Highway	Lee Kam Lun, Khairul Hazman Padil, Norhisham Bakhary, Yon Kong Chen, Aminuddin Jameran, Mohd Izuddin MD. Ithnan, M. Naquiuddin M. Warid, Ahmad Shamsul Arizam Mohammad, Shahir Aiman Sharizal, Muhammad Adham Mohd Alias, Ainul Husna Hambal
12:30 PM	Structural Health Monitoring	86	Vibration-Based Damage Detection of Steel Pipelines using Convolutional Neural Network	Aminuddin Jameran, Khairul Hazman Padil, Goh Lyn Dee, Norhisham Bakhary, Kong Chen Yon
12:45 PM				End of Session

Note: All presenters will be given 10 minutes for presentation and 5 minutes for Q&A session.

Chairperson: Assoc. Prof. Dr. Tan Cher Siang

Venue: Mesmera 1

Presentation Schedule - 11th Asia Pacific Structural Engineering & Construction Conference (APSEC)

Parallel Session 1 – Irama 7

Time	Topic	ID	Title	Authors
10:45 AM	Industrialised Building System	29	Leveraging Artificial Intelligence to Enhance Efficiency and Quality in Malaysia's Industrialized Building System	Abdul Izz Mohamad Kamil, Mohamad Syazli Fathi, Zeeshan Aziz
11:00 AM	Industrialised Building System	80	Deciding The Right Procurement Systems for Prefabricated Housing; Factors to Be Considered	Ahmad Bin Abd Jalil, Fadhilah Binti Md Fazil, Nurina Binti Nawi and Mohd Amir Shazwan Bin Hashim
11:15 AM	Innovative Construction Materials	7	Repairing Damaged Concrete Using High Performance Fibre Reinforced Concrete Confinement	Ahmad Azim Shukri, Ige Samuel Ayeni, Nor Fazlin Zamri, Fazaulnizam
11:30 AM	Innovative Construction Materials	27	Steel Fiber-Reinforced Pile Waste Slurry: Mechanical Properties and Application in Concrete Drain Covers	Nelly Majain, Muhammad Hafizzudin Bin Alias, Hilton @ Mohd Hilton Bin Ahmad, Sheikh Mohd Iqbal Bin S Zainal Abidin, Muhd Fauzy Bin Sulaiman
11:45 AM	Innovative Construction Materials	39	Potential Utilisation of Eco-Processed Pozzolan in Foamed Concrete: A Review	Abraham Bernard, Ahmad Nurfaidhi Rizalman
12:00 PM	Innovative Construction Materials	51	Case Study: The Use of Green Cement to Enhance the Stability of Soft Clay Shale Soil in Nusantara Capital City	Oktoria Masniari Manurung, Chusla Ramah Darmawan, Elfiranahla Chandra Dewi
12:15 PM	Innovative Construction Materials	59	Numerical Study on RC Columns Confined with Pre-Tensioned Steel Straps Under Shear, Flexural, And Torsion	Jia-Yang Tan, Chau-Khun Ma, Chee-Loong Chin, Thanongsak Imjai
12:30 PM	Construction Management	10	Integrating Risk Management into PMO Development in Construction Industry: A Comprehensive Review	Alin Veronika, Yusuf Latief, Leni Sagita Riantini
12:45 PM				End of Session

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Chairperson: Dr. Chin Chee Loong

Venue: Irama 7

Presentation Schedule - 11th Asia Pacific Structural Engineering & Construction Conference (APSEC)

Parallel Session 1 – Irama 8

Time	Topic	ID	Title	Authors
10:45 AM	Transportation Infrastructure	43	Impact Of Amber Phase Driver Behavior on Traffic Congestion	C. F. Ong, H. L. Khoo and S. P. Lim
11:00 AM	Transportation Infrastructure	63	Systematic Literature Review: Integrating Urban Air Mobility on The Ground and In The U-Space	Devie Anggraeni Hadi, Yusuf Latief, Mochammed Ali Berawi, Bambang Susantono
11:15 AM	Innovative Construction Materials	61	Study On the Influence of Temperature and Humidity on Sago Frond Fiber Composite Materials in Open Environments	Eko Tavip Maryanto , Ary Setyawan, Theresia Sri Budiastuti Maria, Winny Astuti
11:30 AM	Innovative Construction Materials	72	A Review on Bamboo-Reinforced Concrete Focusing on Trends and Applications in Sustainable Construction	A. Musa, M.A.M. Ariffin, M.N.A. Alel, W.I.W. Ahmad Kamal, H.S. Lee, K.S. Jitandra, S. Ishaq, M.D.K. Awalluddin
11:45 AM	Innovative Construction Materials	73	Comparative Analysis of Buckling Performance in Slender Concrete Columns Reinforced with GFRP And Steel	Norliyati Mohd Amin, Muhammad Irfan Noorhashim, Nursafarina Ahmad, Abdullah Khatib
12:00 PM	Innovative Construction Materials	76	Performance Assessment of Ambient-Cured Fly Ash Geopolymer Concrete	Dinie Awalluddin, Nor Fazlin Zamri
12:15 PM	Innovative Construction Materials	77	Enhancing Early Strength of High-Volume Fly Ash Artificial Aggregates Through Accelerated Co2 Curing	Nurdalina Syuhada Zulkifli, Nur Hafizah Abd. Khalid, Mohamad Haqzim Ayob, Siti Aishah Jupri, Muhammad Firdaus Omar
12:30 PM	Construction Management	13	Conceptual Framework of Managing Change on Construction Project in Indonesia	Widya Apriani, Yusuf Latief, Leni Sagita
12:45 PM				End of Session

Note: All presenters will be given 10 minutes for presentation and 5 minutes for Q&A session.

Chairperson: Dr. Shafiq Bin Ishak

Venue: Irama 8

Presentation Schedule - 11th Asia Pacific Structural Engineering & Construction Conference (APSEC)

Parallel Session 2 – Mesmera 1				
Time	Topic	ID	Title	Authors
2:00 PM	Innovative Construction Materials	78	Characterization Of Empty Fruit Bunch Biochar from Solar Pyrolysis for Sustainable Construction Application	Alia Syafiqah Abdul Hamed, Muhammad Syarifuddin Yahya, Nurul Adilah Abdul Latiff, Nur Farizan Munajat
2:15 PM	Innovative Construction Materials	84	Infrastructure Construction Using Fibre Reinforced Concrete	Gan Cheng Chian
2:30 PM	Composite Structures	79	Axial Compressive Behaviour of Triple-Layer FRP-Steel-FRP Confined Seawater Sea-Sand Concrete Column	Fu Hao, Mai Rihao, Goh Yong Zheng, Chin Chee Loong, Ma Chau Khun
2:45 PM	Material Behaviour	46	Effect Of Temperature on The Mechanical Properties of Hevea Brasiliensis Wood Species	Noor Nabilah Sarbini, Noraini Naseran, Yussof Mohd Zairi
3:00 PM	Material Behaviour	47	Trends Of Finger Joint Applications Research in Engineered Wood: A Systematic Review	Noraini Naseran, Noor Nabilah Sarbini and Nur Anis Shalini Zaidi
3:15 PM	Material Behaviour	56	Experimental Investigation on Strength, Stiffness and Ductility of High Strength Structural Steel to ISO 6892-1	Jun Ming Teo, Bao Fang Yip, Cher Siang Tan, Jian Jun Moy, Arizu Bin Sulaiman
3:30 PM	Material Behaviour	88	Determination Of Johnson-Cook and Hollomon Material Model Parameters Using Multiple Pre-And/or Post-Yield Method A Strain Testing Rates Per ISO 6892-1	Phooi Sang Ng, Kee Quen Lee, Meng Hee Lee
3:45 PM	Innovative Structures	89	Optimised Fixed Offshore Platform for Ocean Thermal Energy Conversion	Aidil Danish Nor Azam, Mohd Khairi Abu Husain, Nurul Azizah Mukhlas, Noor Irza Mohd Zaki, Saiyidatul Saadah Ahmad Nizam, Norhazilan Md Noor
4:00 PM	IT Construction	30	Digital Twin for Infrastructure Health: Evolution, Integration, and Future Prospects	Abdul Izz Mohamad Kamil, Mohamad Syazli Fathi, Zeeshan Aziz
4:15 PM	IT Construction	48	Minimizing Disputes through Integration of Building Information Modeling (BIM)	Norhazren Izatie Mohd, Hamizah Liyana Tajul Ariffin, Shamsulhadi Bandi, Farrah Azwanee Aminuddin, Faraziera Binti Mohd Raslim, Nur Nilam Sari Binti Md Yusoff
4:30 PM	Industrialised Building System	95	Flexural Behaviour of Prefabricated Steel and Concrete Composite Panel	Shek Poi Ngian, Choo Xing Yi, Anis Saggaff, Mahmood Md Tahir, Abdul Rahman Mohd Sam, Nor Hasanah Abdul Shukor Lim and Siti Asma binti Abd Latif
5:00 PM				End of Session

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Chairperson: Dr. Ahmad Azim Bin Shukri

Venue: Mesmera 1

Presentation Schedule - 11th Asia Pacific Structural Engineering & Construction Conference (APSEC)

Parallel Session 2 – Irama 7

Time	Topic	ID	Title	Authors
2:00 PM	Sustainable Construction and Building	24	Performance Of Kenaf Fiber-Enhanced Textile Reinforced Mortar Under High-Temperature Exposure	ELHASSAN GHEIDAN, Mariyana Aida Ab Kadir, Oluwatobi Gbenga Aluko, Mohamed Abou Sif
2:15 PM	Sustainable Construction and Building	25	Strength Enhancement of Existing Reinforced Concrete Beam Using Embedded Steel Bars	Ridwan, Enno Yuniarto, Ilham Akbar, Alfian Kamaldi
2:30 PM	Sustainable Construction and Building	38	Building Information Modelling based Energy Efficiency Assessment Tools implementation in Malaysia's Construction Industry	Rishi M. Prakash, Ng Chiew Teng, Thong Jia Wen, Mohamad Shazwan Bin Ahmad Shah, Shek Poi Ngian, Ng Hock Seng, Liew Tung Lok
2:45 PM	Sustainable Construction and Building	49	Evaluating The Impact of Green Roofs on Energy Efficiency in Green Office Building	Muhammad Tarique Lakhier, Ts Dr Shalini a/p Sanmargaraja, Dr Olanrewaju Abdullateef, Chong Hooi Lim, Vignes Ponniah, Anselm Dass Mathalamuthu
3:00 PM	Structural Analysis and Design	11	Wind Load Analysis: Determining External Pressure Coefficients for Buildings Through National Annex Modifications	Nur Hajarul Falahi Abdul Halim, Azlan Adnan, Zamri Ramli, Sophia C Alih
3:15 PM	Structural Analysis and Design	22	Experimental Studies on The Performance of Fiber Reinforced Polymer Strengthening Damaged Concrete Columns Under Axial and Eccentric Compression: A Review	Li Ke, Roslli Bin Noor Mohamed
3:30 PM	Structural Analysis and Design	35	Finite Element Analysis of Subsea Pipeline: Impacts of Combined Corrosion and Free Span Conditions	Syamil Aziem Bin Ahmad Saharuddin, Norhazilan Bin Md Noor, Mohamad Shazwan Bin Ahmad Shah, Sarehati Binti Umar, Ng Chiew Teng, Hanis Hazirah Binti Arifin, Nurul 'Azizah Binti Mukhlas
3:45 PM	Structural Analysis and Design	37	Finite Element Modeling of Precast Concrete Connections: Comparative Cyclic Performance of Corbel and Nib Connections	Nur Hajarul Falahi Abdul Halim, Azlan Adnan
4:00 PM	Structural Analysis and Design	44	Fatigue Life Prediction of Plain Concrete Using Artificial Neural Networks and Statistical Analysis	Haikhal Faez Hairuddin, Mohamad Shazwan Ahmad Shah, Norhazilan Md Noor, Sarehati Umar, Nurul 'Azizah Mukhlas, Ng Chiew Teng, Hanis Hazirah Arifin
4:15 PM	Structural Analysis and Design	57	Exploring the Behaviour of Cold-Formed Steel Beams with Web Openings: A Review of Bending and Torsion Interactions	Mingrui Gao, Bao Fang Yip, Cher Siang Tan, Mohamad Shazwan Ahmad Shah
4:30 PM	Forensic Engineering	66	Experimental Modal Analysis and Finite Element Model Verification of Hollow-Core Concrete Floor Slab Under Vehicle Vibration	Rihao Mai, Izni Syahrizal Ibrahim, Khairul Hazman Padil, Hao Fu, Noor Nabilah Sarbini, Shing Mei Chiew
5:00 PM				End of Session

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Chairperson: Ir. Dr. Thong Jia Wen

Venue: Irama 7

Presentation Schedule - 11th Asia Pacific Structural Engineering & Construction Conference (APSEC)

Parallel Session 2 – Irama 8

Time	Topic	ID	Title	Authors
2:00 PM	Water Resources Infrastructure	69	A Bibliometric Analysis of Potable Peatland Water Risk Factors	Nurul Farah Ain Lee Kok Hou, Libriati Zardasti, Khalida Muda, Norelyza Hussein, Nur Syamimi Zaidi, Che Hafizan Che Hassan
2:15 PM	Water Resources Infrastructure	92	Towards Sustainable Brine Waste Management Policies for The Desalination Industry in Malaysia	Cynthia Mahadi, Norhafezah Kasmuri and Zakaria Mat Diah
2:30 PM	Disaster Mitigation	60	Dam Disaster: Dam Break Prediction of Malaysia's Highest Flood Mitigation Dam	Siti Saimah Abdul Rahman, Faizah Che Ros
2:45 PM	Disaster Mitigation	83	Performance Assessment of Rainwater Drainage System as Flood Mitigation Measures	Hussin A.M Yahia, Safa Salim Said Al Mushifari, Ali Ahmed Mohammed, Shaban Ismael Albrka Ali
3:00 PM	Construction Management	26	Exploration of Big Data in Smart Homes: Definitions, Limitations, Applications	Imran Shahriar, Faridahanim Ahmad, Nadirah Darus, Tsu Yian Lee
3:15 PM	Construction Management	28	Systematic Review for Road Maintenance Financial Management: Strategic Financial Planning Factors	Erlinda Masi, Nur IzieAdiana binti Abidin
3:30 PM	Construction Management	52	Facilities Management in Malaysia Residential: A Review	Nur Afiqah Mohd Lamin, Izni Syahrizal Ibrahim, Nur Izieadiana Abidin, Hishamuddin Mohd Ali
3:45 PM	Construction Management	85	Investigate Factors Influencing Cost Overrun in The Omani Construction Projects	Hussin A.M Yahia, Zaina Saleh AL Habsi and Sachin Kuckian
4:00 PM	Construction Management	96	Key Factors Affecting the Performance Of Virtual Point Cloud Data Set of Precast Concrete Component	Zhang Di, Noor Nabilah Sarbini, Zhang Hao, Chen Dan, Chai Xiaowei
4:15 PM	Construction Management	94	Analysis of regional differences in building energy efficiency in China under the background of Low-carbon transformation	Zhang Hao, Zhang Di, Chen Dan, Chai Xiaowei.
5:00 PM				End of Session

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Chairperson: Dr. Chin Chee Loong

Venue: Irama 8