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# AQSA Research and Education Conference 2024

Futurising Built Environment – Transformative Effects of Artificial Intelligence and Digital Technology

19<sup>th</sup> – 20<sup>th</sup> NOVEMBER 2024

IMPERIAL HOTEL, KUCHING, SARAWAK, MALAYSIA

**(ATTACHMENT - PROGRAMME)**

AQSA Members' Institutions:







## PROGRAMME

Please note that the conference program is preliminary and may be modified without prior notification.

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Programme	CONFERENCE DAY ONE (19 <sup>TH</sup> NOVEMBER 2024 – TUESDAY)
8.15 am – 8.45 am	<b>Registration</b>
	<b>PLENARY SESSION 1 – VENUE: IMPERIAL GRAND BALLROOM</b>
9.00 am – 9.15 am	<b>Welcome Address by AQSA President, Mr Goh Ngan Hong</b>
9.15 am – 10.15 am	<b>Official Opening By:</b> Speech by YB Dato Sri Haji Abdul Karim Rahman Hamzah, the Honourable Minister of Tourism, Creative Industry & Performing Arts Sarawak <b>Launching of Conference/Multi-Media Presentation</b>
10.15 am – 10.45 am	<b>Keynote 1</b>
	<b>Sub-Theme: Education In Built Environment</b> Topic: Training and Retaining Generation Z Quantity Surveyors Speaker: Professor Sr. Dr Florence Y.Y. Ling, National University of Singapore, representative of Singapore Institute of Surveyors & Valuers45
10.45 am – 11.15 am	<b>Coffee Break &amp; Networking</b>
11.15 am – 11.45 pm	<b>Keynote 2</b>
	<b>Sub-Theme: Data Analytics And Digital Technology</b> Topic: Digitalisation In The Construction Industry: Challenges & Opportunities Speaker: Sr Dr Ong See Lian, Director & Strategic Adviser of Turner & Townsend Malaysia
11.45 am – 12.15 pm	<b>Keynote 3</b>
	<b>Sub-Theme: Real Estate Industry</b> Topic: Business Opportunities In Real Estate In Thailand For International Consultancy & Construction Firms Speaker: Mr Seth Leong, Managing Director of Mentabuild Limited (formerly Arcadis Thailand)
12.15 pm – 1.30 pm	<b>Lunch Break</b>
	<b>PARALLEL SESSION 1 – VENUE: IMPERIAL GRAND BALLROOM</b> <b>Chair: Assoc. Prof. Sr Dr Sarajul Fikri Mohamed</b>
1.30 pm – 1.55 pm	<b>Sub-Theme: Data Analytics And Digital Technology</b> Topic: Transitioning From Paper To Digital: Assessing Sustainable Digitalisation In Malaysian Construction Projects Speaker: Sr Eric Khoo Sui Lai, Faculty of Engineering, Technology & Built Environment UCSI University Kuala Lumpur Campus & International Federation of Surveyors (FIG)
1.55 pm – 2.20 pm	Topic: Exploring Barriers & Enablers In The Implementation Of BIM For Quantity Surveying Tasks In Construction Organisation Speaker: Ms Chong Ying Tong, Department of the Built Environment, National University of Singapore (NUS)



2.20 pm – 2.45 pm	<p>Topic: Data Governance In The Malaysian Construction Industry: The Quantity Surveying Consultants' Perspective</p> <p>Speaker: Dr Felicia Yong Yan Yan, Assistant Prof./Head of Dept, Dept of Surveying, Universiti Tunku Abdul Rahman (UTAR)</p>
2.45 pm – 3.10 pm	<p>Topic: Digitalisation In Philippine Construction Industry</p> <p>Speaker: Mr Anthony Mariano, Executive Vice-President of Triumph Development Corporation</p>
	<p><b>PARALLEL SESSION 2 – VENUE: DANUM 2</b></p> <p><b>Chair: Sr Syed Abdul Haris Syed Mustapa</b></p>
1.30 pm – 1.55 pm	<p><b>Sub-Theme: Education In Built Environment</b></p> <p>Topic: Navigating Digital Construction – The Malaysian Case Study</p> <p>Speaker: Prof. Sr Dr Padzil @ Fadzil Hassan, Faculty of Built Environment, Universiti Malaysia Sarawak (UNIMAS)</p>
1.55 pm – 2.20 pm	<p><b>Sub-Theme: Asset And Facilities Management</b></p> <p>Topic: Building Government Capacity For Digital Transformation In Public Infrastructure Maintenance: The Role Of Triple Helix Collaboration In Malaysia</p> <p>Speaker: Ts Dr Sylvia Gala Anak Mong @ Agam, Universiti Teknologi MARA (UITM)</p>
2.20 pm – 2.45 pm	<p>Topic: Utilization Of Recycled Polyethylene Terephthalate (PET) As Fine Aggregate In Concrete For Green Construction</p> <p>Speaker: Assoc. Prof. Dr Rohana Mahbub, College of Built Environment, Universiti Teknologi MARA</p>
2.45 pm – 3.10 pm	<p>Topic: What Shapes The Next Generation Of Quantity Surveyors?</p> <p>Speaker: Mr Philip Tan, BIM Director of Perunding Kos T &amp; K Sdn Bhd</p>
3.10 pm – 3.30 pm	<p><b>Tea Break &amp; Networking</b></p>
	<p><b>PARALLEL SESSION 3 – VENUE: GRAND IMPERIAL BALLROOM</b></p> <p><b>Chair: Assoc. Prof. Sr Dr Afzan Ahmad Zaini</b></p>
3.30 pm – 3.55 pm	<p><b>Sub-Theme: Large Infrastructure Management</b></p> <p>Topic: Challenges For The Construction Industry: Enhancing Sustainability In Indonesia's Infrastructure Development</p> <p>Speaker: Ir. Habibie Razak, Executive Director of The Institution of Engineers Indonesia (PII)</p>
3.55 pm – 4.20 pm	<p><b>Sub-Theme: Construction Industry Development</b></p> <p>Topic: Strategies To Encourage Adoption Of Construction 4.0 Technologies From Contractors' Perspective</p> <p>Speaker: Dr Nurul Sakina Mokhtar Aziz, School of Housing Building Planning, Universiti Sains Malaysia (USM)</p>
4.20 pm – 4.45 pm	<p><b>Sub-Theme: Safety And Risk Management</b></p> <p>Topic: Cost Components Of Safety Cost To Construction Design Management (CDM) Compliances For Scaffolding Works In Construction Projects</p> <p>Speaker: Assoc. Prof. Sr Dr Mohd Saidin Misnan, Faculty of Built Environment, Universiti Teknologi Malaysia (UTM)</p>
4.45 pm – 5.10 pm	<p><b>Sub-Theme: Smart Sustainable Development</b></p> <p>Topic: Sustainable Restoration Of Dilapidated/Heritage Building – QS Experience</p> <p>Speaker: Sr Saravanan Subramaniam, Managing Director of SG Contract Services Sdn Bhd</p>





	<b>PARALLEL SESSION 4 – VENUE DANUM 2</b> <b>Chair: Dr Felicia Yong Yan Yan</b>
3.30 pm – 3.55 pm	<b>Sub-Theme: Data Analytics And Digital Technology</b> Topic: Artificial Intelligence In Construction Project Speaker: Sr Sitti Diana Tamjehi, Department of QS, Universiti Malaysia Sarawak (UNIMAS)
3.55 pm – 4.20 pm	<b>Sub-Theme: Asset And Facilities Management</b> Topic: Emerging Trends Of Facilities Management In Brunei Construction Industry Speaker: Sr. John Wong Chee Kwong, Director/Head of Quantity Surveying & Facilities Management Department of Utamacon (B) Sdn Bhd
4.20 pm – 4.45 pm	<b>Sub-Theme: Real Estate Industry</b> Topic: Housing Development Economics: Demystifying Transaction Costs In Sarawak Real Estate Speaker: Sr Dr Fara Diva Mustapha, Universiti Teknologi Malaysia (UTM)
4.45 pm – 5.10 pm	Topic: An Evaluation Into The Impact Of The Drivers In The Effective Implementation Of 5D BIM In South East Asia Speaker: Ms Leila Rostom, Commercial Manager of COVA (Cambodia)
5.10 pm	<b>End of Day 1</b>
<b>PROGRAMME</b>	<b>CONFERENCE DAY TWO (20<sup>TH</sup> NOVEMBER 2024 -WEDNESDAY)</b> <b>PLENARY SESSION 2 – VENUE: IMPERIAL GRAND BALLROOM</b>
8.15 am – 9.00 am	Registration
9.00 am – 9.30 am	<b>Keynote 4</b>
	<b>Sub-Theme: Asset And Facilities Management</b> Topic: Influential Factors In The Building Information Modelling (BIM-5D QTO) For Green Retrofitting Process Speaker: Ibu Bernadette Detty Kussumardianadewi, Ikatan Quantity Surveyors Indonesia (IQSI)
9.30 am – 10.00 am	<b>Keynote 5</b>
	<b>Sub-Theme: Large Infrastructure Management</b> Topic: A Primer On Dispute Resolution In The Philippines And The Emerging Role of Quantity Surveying Professionals Speaker: Engr. Ramon Allado, Chief Executive Officer of Allado Construction Co. Inc. & Board Member of Construction Industry Authority of the Philippines
10.00 am – 10.30 am	<b>Coffee Break &amp; Networking</b>
10.30 am – 11.00 am	<b>Keynote 6</b>
	<b>Sub-Theme: Smart Sustainable Development</b> Topic: Sustainable Urban Development Speaker: Dr Kyaing, President of the Quantity Surveying Chapter, Federation of Myanmar Engineering Societies (Fed MES)
11.00 am – 11.30 am	<b>Keynote 7</b>
	<b>Sub-Theme: Contract Management &amp; Law</b> Topic: Project Cost Management In Brunei Darussalam Construction Industry Speaker: Sr. Haji Mohd Hanafi PD Hj. Abdul Rahman, President of Pertubuhan Ukur, Jurutera & Arkitek, Brunei (PUJA)



11.30 am – 11.55 am	<b>Keynote 8</b> <b>Sub-Theme: Contract Management &amp; Law</b> Topic: Labour And Plant Constants For Building Construction In Malaysia: Insights From The Public Works Department Malaysia (JKR) Speaker: Datuk Sr Ts. Mohd Nasir Saari, Deputy Director, Centre Of Excellence, Technology & Engineering, Public Works Department, Malaysia
11.55 am – 12.20 pm	<b>Sub-Theme: Project Management</b> Topic: Practical Application Of Artificial Intelligent (AI) Techniques In Construction Cost Management: A Novel Search For 5D BIM Based Bill Of Quantities (BoQS) Speaker: Associate Prof. Sr Dr Sarajul Fikri Mohamed, Faculty of Built Environment & Surveying, Universiti Teknologi Malaysia (UTM)
12.20 pm – 1.45 pm	<b>Lunch Break</b>
1.45 pm – 2.10 pm	<b>Sub-Theme: Contract Management &amp; Law</b> Topic: Governing ESG In Construction: Tackling The Challenges To Building A Sustainable Future Speaker: Sr Dainna Baharuddin, Past President of Royal Institution of Surveyors Malaysia (RISM) & Partner of Basar & Harun Sdn
2.10 pm – 2.35 pm	<b>Special Presentation of New Projects: Sarawak Metro</b> Speaker: Mr Nor Nasyriq, Deputy Project Director of the Kuching Urban Transport System (KUTS)
2.35 pm – 3.00 pm	<b>Special Presentation by CYPE Software</b>
3.00 pm – 4.00 pm	<b>Panel Discussion: Futurising The Built Environment</b> <b>Moderator: Prof. Sr Dr Padzil @ Fadzil Hassan</b> <b>Panel Members:</b> Sr. Haji Mohd Hanafi PD Hj. Abdul Rahman, Pertubuhan Ukur, Jurutera & Arkitek, Brunei (PUJA) Ir. Habibie Razak, The Institution of Engineers Indonesia (PII) Sr Dr Ong See Lian, Director & Strategic Adviser of Turner & Townsend Malaysia Engr. Ramon Allado, Board Member of Construction Industry Authority of the Philippines Sr C.P. Leong, Advisor, Mentabuild Limited, Founder, Association of Quantity Surveyors (AQST), Thailand
4.00 pm – 5.00 pm	<b>Tea Break &amp; Networking</b>
5.00 pm	<b>End of day 2</b>
7.30 pm – 10.30 pm	<b>GALA DINNER</b>