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INTERNATIONAL FEDERATION OF SURVEYORS

# 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:



IKATAN KUANTITI SURVEYOR INDONESIA (INDONESIAN ASSOCIATION OF QUANTITY SURVEYORS)



PERTUBAHAN UKUR JURUTERA & ARKITEK  
NEGARA BRUNEI DARUSSALAM



PICQS

Philippine Institute of Certified Quantity Surveyors







## PROGRAMME

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

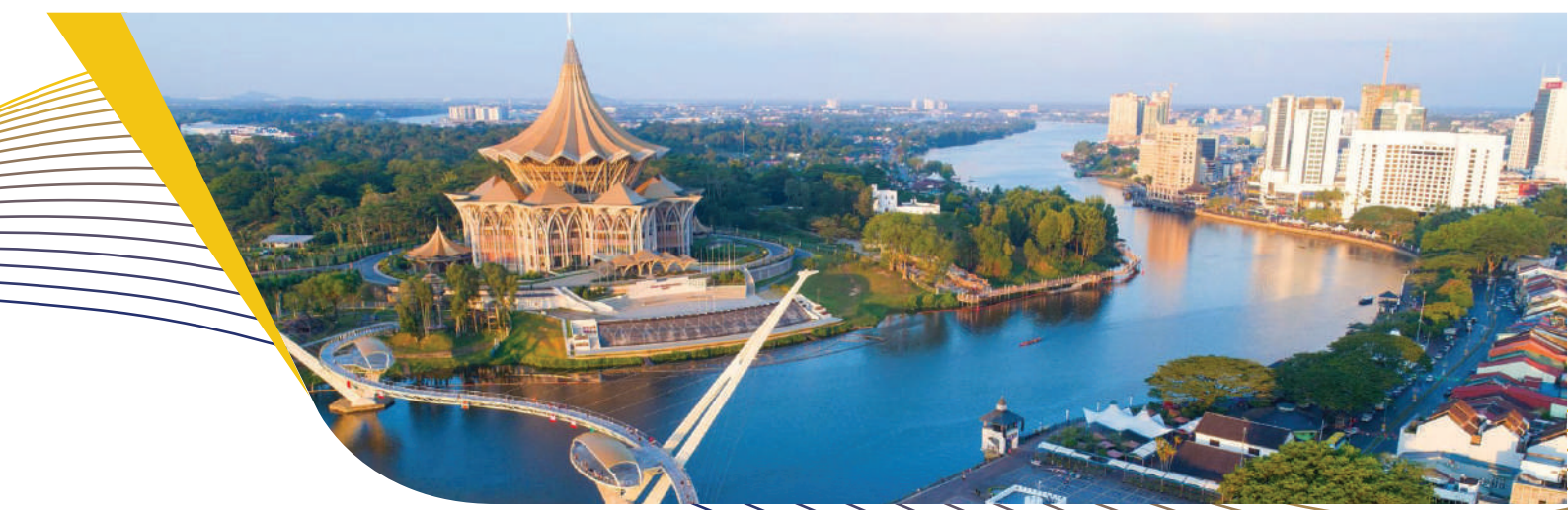
Programme	CONFERENCE DAY ONE (19 <sup>TH</sup> NOVEMBER 2024 – TUESDAY)
8.15 am – 8.45 am	<b>Registration</b>
	<b>PLENARY SESSION 1 – VENUE: IMPERIAL GRAND BALLROOM</b>
9.00 am – 9.15 am	<b>Welcome Address by AQSA President, Mr Goh Ngan Hong</b>
9.15 am – 10.15 am	<b>Official Opening By:</b> <b>Speech by YB Dato Sr Haji Abdul Karim Rahman Hamzah, the Honourable Minister of Tourism, Creative Industry &amp; Performing Arts Sarawak</b> <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 Florence Y.Y. Ling, National University of Singapore, representative of Singapore Institute of Surveyors and Valuers
10.45 am – 11.15 am	<b>Coffee Break &amp; Networking</b>
11.15 am – 11.45 am	<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>
	<b>Sub-Theme: Data Analytics And Digital Technology</b>
1.30 pm – 1.55 pm	Topic: Transitioning From Paper To Digital: Assessing Sustainable Digitalisation IN Malaysian Construction Projects Speaker: Sr Eric Khoo Su 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            Speaker: Dr Felicia Yong Yan Yan, Assistant Prof./Head of Department, Department of Surveying, Universiti Tunku Abdul Rahman (UTAR)</p>
2.45 pm – 3.10 pm	<p>Topic: Rising Past New Norms – The Philippine Office Market            Speaker: Mr Anthony Mariano, Executive Vice-President of Triumph Development Corporation</p>
	<p><b>PARALLEL SESSION 2 – VENUE: DANUM 2</b>  <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>            Topic: Navigating Digital Construction – The Malaysian Case Study            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: Smart Sustainable Development</b>            Topic: Assessing The Implementation Challenges And Cost Of Biodigester System For Sustainable Waste Management In Urban Environment            Speaker: Firas Qistina Mohd Razlan &amp; Aini Saifuza Abd. Shukor, College of Built Environment, Universiti Teknologi MARA</p>
2.20 pm – 2.45 pm	<p>Topic: Utilization Of Recycled Polyethylene Terephthalate (PET) As Fine Aggregate In Concrete For Green Construction            Speaker: Chen Yu &amp; Rohana Mahbuh, College of Built Environment, Universiti Teknologi MARA</p>
2.45 pm – 3.10 pm	<p>Topic: What Shapes The Next Generation Of Quantity Surveyors?            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>  <b>Chair: Sr Dr. Afzan Ahmad</b></p>
3.30 pm – 3.55 pm	<p><b>Sub-Theme: Smart Sustainable Development</b>            Topic: Sustainable Restoration Of Dilapidated/Heritage Building – QS Experience            Speaker: Sr Saravanan Subramaniam, Managing Director of SG Contract Services Sdn Bhd</p>
3.55 pm – 4.20 pm	<p><b>Sub-Theme: Construction Industry Development</b>            Topic: Strategies To Encourage Adoption Of Construction 4.0 Technologies From Contractors' Perspective            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>            Topic: Cost Components Of Safety Cost To Construction Design Management (CDM) Compliances For Scaffolding Works In Construction Projects            Speaker: Assoc. Prof. Sr Dr. Mohd Saidin Misnan, Faculty of Built Environment &amp; Surveying, Universiti Teknologi Malaysia (UTM)</p>
4.45 pm – 5.10 pm	<p><b>Sub-Theme: Contract Management &amp; Law</b>            Topic: Labour Constant &amp; Build-Up Rates Optimizing For Building Construction In Malaysia: Insights From The Public Works Department            Speaker: Datuk Sr Ts. Mohd Nasir Saari, Deputy Director, Centre Of Excellence, Technology &amp; Engineering, Public Works Department, Malaysia</p>





	<b>PARALLEL SESSION 4 – VENUE: DANUM 2</b> <b>Chair: Sr Lim Kok Sang</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 Kusumardianadewi, 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: Brace For The Innovation Wave: How The Future Is Disrupting And Redefining Your Role In Quantity Surveying





	Speaker: Sr. Haji Mohd Hanafi PD Hj. Abdul Rahman, President of Pertubuhan Ukur, Jurutera & Arkitek, Brunei (PUJA)
11.30 am – 11.55 am	<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)
11.55 am – 12.20 pm	<b>Sub-Theme: Large Infrastructure Management</b> Topic: Challenges For the Construction Industry: Enhancing Sustainability In Indonesia's Infrastructure Development Speaker: Ir. Habibie Razak, Executive Director of The Institution of Engineers Indonesia (PII)
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 Mr Wong Kin Hoong, Singapore Institute of Surveyors and Valuers Sr. C.P. Leong, Mentabuild Limited, 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>