

THE 6th INTERNATIONAL CONFERENCE ON WATER RESOURCES (ICWR-2025)
23 - 25 SEPTEMBER 2025
HOTEL EVERLY, PUTRAJAYA

DAY 1 : 23 SEPTEMBER 2025 (Tuesday)			
8.00 – 8.45am	REGISTRATION		
9.00 - 10.00am	SPECIAL SESSION - Prof. Dr Zulkifli Yusop, Academy Science Malaysia WST2040 Recommendation Roadmap: Towards Transforming Water Sector as a Growth Engine		
10.00 - 10.30am	KEYNOTE SPEAKER 1 - Prof. Van Thanh Van Nguyen, McGill University Canada Linking Climate Change to Urban Water Infrastructure Design: Advances and Challenges in Developing Engineering Practice Guidelines		
10.30 - 11.00am	KEYNOTE SPEAKER 2 - YBhg. Datuk Ir. Mohamad Radzi bin Abdul Talib, Director General DID Building Resilient and Sustainable Water Futures in a Changing Climate: Lessons from Malaysia and Beyond		
11.00 - 11.15am	Refreshments		
11.15 – 1.00pm	OPENING CEREMONY Venue : Mesmera Ballroom The Everly Putrajaya 11.15 am - Arrival of Invited guests and VIPs 11.30 am - Arrival of YB Tuan Haji Akmal Nasrullah bin Mohd Nasir Deputy Minister of Energy Transition and Water Transformation (PETRA) - National Anthem - Recital of Doa - Welcoming Speech by Performing the Function of Head of UTM Campus (Kuala Lumpur Branch) Prof. Dr. Shamsul bin Sahibuddin - Officiating Speech by YB Tuan Haji Akmal Nasrullah bin Mohd Nasir - Photo Session - Visit to exhibition hall and Press Conference		
1.00 - 2.00pm	Lunch		
2.00 - 2.30pm	KEYNOTE SPEAKER 3 - Dr. Abou Amani, Intergovernmental Hydrological Programme UNESCO Intergovernmental Hydrological Programme: Working towards a Resilient Future of Water		
2.30 - 3.45pm	PARALLEL SESSION 1 (9 papers, 3 invited speakers)		
	SESSION 1A: FM Venue: Mesmera Ballroom Chairperson: Dato' Ir Hj. Hanapi bin Mohamad Noor	SESSION 1B: ES Venue: Irama 5 Chairperson: Ir.Cheok Hou Seng	SESSION 1C: CM Venue: Irama 6 Chairperson: Ir. Lee Chin Shyan
2.30 – 2.45pm	INVITED SPEAKER SESSION Ir. Dr. Abd Jalil Hassan MANAGING FLOODS FROM THE PERSPECTIVE OF SUNNATULAH	INVITED SPEAKER SESSION Prof. Dr. Khalida Muda ADVANCEMENTS IN BIOGRANULE DEVELOPMENT: ENHANCING EARLY-STAGE GRANULATION IN SEWAGE TREATMENT	INVITED SPEAKER SESSION Ir. Mohd Afzainizam Bin Noordin APPLICATION OF HYDRODYNAMIC MODEL FOR DROUGHT ASSESSMENT: CASE STUDY AT PAHANG RIVER BASIN, MALAYSIA
2.45 – 3.00pm	PAPER ID 58 Ir. Dr. Nor Eliza Binti Alias RAINFALL AND LAND USE CHANGE ANALYSIS OF THE SLIM RIVER 2024 DEBRIS FLOW DISASTER	PAPER ID 33 Mr. Sonu Kumar ENVIRONMENTAL IMPACTS OF UNREGULATED RIVER SAND MINING IN THE MEKONG DELTA	PAPER ID 45 Prof. Ir. Dr. Faridah Othman FUTURE RAINFALL CHANGES IN THE AGRICULTURE-INTENSIVE MUDA AND KELANTAN RIVER BASINS, MALAYSIA

3.00 – 3.15pm	<p>PAPER ID 11</p> <p>Jebat Hazrik Mohd Nazry</p> <p>SURFACE ENERGY BALANCE TRENDS IN A TROPICAL URBAN ENVIRONMENT: A GLDAS-BASED ANALYSIS OF EVAPOTRANSPIRATION, HEAT FLUXES, AND BOWEN RATIO IN JOHOR BAHRU</p>	<p>PAPER ID 74</p> <p>Ms. Khairunnisa Abdul Halim</p> <p>FERMENTATION OF PLANT-BASED FOOD WASTE INTO GREEN WASTE VINEGAR FOR BIOFLOCCULANT PRODUCTION AND SUSPENDED SOLIDS REMOVAL</p>	<p>PAPER ID 39</p> <p>Indriyanti</p> <p>THE INFLUENCE OF CONCENTRATION TIME PARAMETERS IN MODEL DEVELOPMENT SURFACE RUNOFF</p>
3.15 – 3.30pm	<p>PAPER ID 30</p> <p>Dr. Mohd Radhie Bin Mohd Salleh</p> <p>INTEGRATING SAR DATA AND MACHINE LEARNING FOR FLOOD MAPPING IN KOTA BHARU, KELANTAN</p>	<p>PAPER ID 20</p> <p>Norlida Binti Mohamed Hamim</p> <p>IRRIGATION WATER QUALITY ASSESSMENT FOR RICE CULTIVATION IN TUMPAT, KELANTAN</p>	<p>PAPER ID 18</p> <p>Assoc. Prof. Ir. Dr. Mohd Adib Bin Mohammad Razi</p> <p>INTEGRATING ECOHYDROLOGY AND NATURE-BASED SOLUTIONS FOR SUSTAINABLE STORMWATER MANAGEMENT AT UNIVERSITI TUN HUSSEIN ONN MALAYSIA (UTHM)</p>
3.30 - 4.00pm	Refreshments		
4.00 – 5.00pm	PARALLEL SESSION 2 (12 papers)		
	<p>SESSION 2A: FM Venue: Mesmera Ballroom Chairperson: Ir. Dr. Nor Eliza binti Alias</p>	<p>SESSION 2B: ES Venue: Irama 5 Chairperson: Prof. Dr. Khalida binti Muda</p>	<p>SESSION 2C: CM Venue: Irama 6 Chairperson: Dr. Mazlin binti Jumain</p>
4.00 – 4.15pm	<p>PAPER ID 19</p> <p>Assoc. Prof. Ir. Dr. Mohd Adib Bin Mohammad Razi</p> <p>EVALUATING THE EFFECTIVENESS OF NATURE-BASED SOLUTIONS FOR FLOOD MITIGATION THROUGH HYDROLOGICAL MODELLING: A CASE STUDY AT UTHM IN LINE WITH URBAN STORMWATER</p>	<p>PAPER ID 63</p> <p>ChM. Dr. Nurlin Abu Samah</p> <p>RECENT TEMPORAL AND SEASONAL VARIATIONS IN WATER QUALITY ASSESSMENT ALONG THE DOWNSTREAM AT PAHANG RIVER: THE APPLICATION OF KNIME</p>	<p>PAPER ID 34</p> <p>Ms. Huang Jiachun</p> <p>DISCHARGE-SEDIMENT DYNAMICS IN PENINSULAR MALAYSIA: A MULTI-BASIN ANALYSIS BASED ON NATIONAL DATASETS</p>
4.15 – 4.30pm	<p>PAPER ID 57</p> <p>Dr. Mohd Khairul Idlan Muhammad</p> <p>ASSESSMENT OF CMIP6 GCMS BASED ON HIGH-PERCENTILE RAINFALL PERFORMANCE FOR EXTREME RAINFALL PROJECTIONS IN KELANTAN AND TERENGGANU</p>	<p>PAPER ID 23</p> <p>Mr. Leong Kwok Wing</p> <p>NEXT-GEN SILT TRAP DESIGN: PARADIGM SHIFT DATA-DRIVEN RESEARCH OF INTEGRATED CATCHMENT AND MANAGEMENT PRACTICES</p>	<p>PAPER ID 7</p> <p>Mr. Muhamad Anwar Bin Ramzan</p> <p>ASSESSMENT OF NON-POINT SOURCE POLLUTION HOTSPOTS IN MACHAP DAM WATERSHED</p>
4.30 – 4.45pm	<p>PAPER ID 65</p> <p>Mr. Park Beomsik</p> <p>RUNOFF IMPACTS OF ΔNBR-BASED ADJUSTMENTS TO GREEN-AMPT PARAMETERS PRE- AND POST-WILDFIRE</p>	<p>PAPER ID 41</p> <p>Muh. Syafaat S. Kuba</p> <p>ANALYSIS OF SEDIMENT MOVEMENT IN A LABORATORY-SCALE CLOSED PIPE SYSTEM</p>	<p>PAPER ID 40</p> <p>M. Agusalim</p> <p>FRACTAL DIMENSION ANALYSIS OF WATERSHEDS IN SOUTH SULAWESI</p>
4.45 – 5.00pm	<p>PAPER ID 38</p> <p>Kasmawati, S.T., M.T.</p> <p>THE EFFECT OF WAVE HEIGHT ON THE STABILITY OF DREDGING SLOPES IN SHALLOW WATERS</p>	<p>PAPER ID 5</p> <p>Dr. Noraliani Binti Alias</p> <p>INTEGRATING GEOCHEMICAL AND REGRESSION ANALYSES TO INCREASE UNDERSTANDING OF GROUNDWATER EVOLUTION IN A SEMI-ARID BASIN</p>	<p>PAPER ID 55</p> <p>Assoc. Prof. Ir. Ts. Dr. Mohamad Hidayat Jamal</p> <p>PHYSICAL AND NUMERICAL MODELLING OF SEDIMENT TRANSPORT PATTERNS IN HABU-RINGLET RESERVOIR</p>

DAY 2 : 24 SEPTEMBER 2025 (Wednesday)			
8.45 – 9.45am	PARALLEL SESSION 3 (12 papers)		
	SESSION 3A: FM Venue: Mesmera Ballroom Chairperson: Dr. Dung Duc Tran	SESSION 3B: ES Venue: Irama 5 Chairperson: Dr. Siti Nur Fatimah binti Moideen	SESSION 3C: MC Venue: Irama 6 Chairperson: Prof. Vasan Arunachalam
8.45 – 9.00am	PAPER ID 14 Mr. Mohd Zubir Bin Mohd Juzad FLOOD DISASTER INFORMATION FUNCTIONALITY REVIEW IN MALAYSIA	PAPER ID 50 Mr. Muhammad Firdaus Sanusi THE ASSESSMENT OF FLOATING WETLANDS IN CAPTURING NUTRIENT FROM DOMESTIC WASTEWATER	PAPER ID 66 Mr. Jee-hoon Lee BEYOND QUANTILE MAPPING: ADDRESSING LIMITATIONS IN BIAS CORRECTION OF CLIMATE MODEL OUTPUTS
9.00 -9.15am	PAPER ID 32 Mr. Surachai a/I Airak GLOBAL PATTERNS IN RAILWAY FLOOD IMPACT STUDIES: A BIBLIOMETRIC REVIEW	PAPER ID 53 Lim Mei Zhen PRELIMINARY ASSESSMENTS OF CICER ARIETINUM VARIANTS AS FUNCTIONAL BIOPOLYMER-BASED FLOCCULANTS FOR WATER TREATMENT	PAPER ID 22 Mr. Diong Chang Xi MISSING WATER LEVEL VALUE FORECASTING BASED ON SURROUNDING LEVEL GAUGE THROUGH ARTIFICIAL INTELLIGENCE
9.15 – 9.30am	PAPER ID 59 Dr. Hamizah Amalina binti Amlan SPATIOTEMPORAL ANALYSIS OF RAINFALL AND AVERAGE RECURRENCE INTERVALS DURING THE 2024 KELANTAN FLOOD	PAPER ID 54 Ts. Dr. Khairul Rahmah Binti Ayub NATURE ON THE ROOF: GREEN INFRASTRUCTURE FOR WATER QUALITY ENHANCEMENT	PAPER ID 26 Ir. Dr. Goh Hooi Bein FLOATING BREAKWATER SOLUTIONS FOR DUAL-PURPOSE ENERGY AND COASTAL DEFENSE
9.30 – 9.45am	PAPER ID 6 Siti Aimi Asyarah binti Zakaria BEHAVIOUR OF HYDRAULIC PARAMETERS IN MULTIPLE OFF-TAKES BRANCHING CHANNELS	PAPER ID 62 ChM. Dr. Nurlin Abu Samah VALORIZATION OF PHYSICOCHEMICAL PROPERTIES AMONG WATER QUALITY PARAMETERS AT PARTIAL OF PAHANG RIVER VIA MACHINE LEARNING	PAPER ID 12 Dr.Thapthai Chaithong MODELLING NON-STATIONARY FUTURE EXTREME PRECIPITATION RETURN LEVELS USING CMIP6 MULTI-MODEL CLIMATE ENSEMBLES UNDER THE SSP5-8.5 SCENARIO
9.45 – 10.15am	Refreshments		
10.15 - 10.45am	KEYNOTE SPEAKER 4 - Assoc. Prof. Dr. Edward Park, NTU Singapore Sand Mining in the Mekong Delta: Extent, Compounded Impacts and Sustainable Management		
11.00 - 11.30am	KEYNOTE SPEAKER 5 - Prof. Daisuke Komori, Tohoku University Japan Towards Designing Sustainable Development Based on Physical and Social Sciences Evidence		
11.30 – 12.45pm	PARALLEL SESSION 4 (10 papers, 4 invited speakers)		
	SESSION 4A: FM Venue 1: Mesmera Ballroom Chairperson: Dato' Ir Hj. Hanapi bin Mohamad Noor	SESSION 4B: ES Venue: Irama 5 Chairperson: Ir. Ts. Noor Zarina binti Mohamad Nazir	SESSION 4C: MC & ORD Venue: Irama 6 Chairperson: Dr. Erwan Hafizi bin Kasiman
11.30 – 11.45am	INVITED SPEAKER SESSION Dato Ir. Mohd Azmi bin Ismail OPERATIONALISING INTEGRATED RIVER BASIN MANAGEMENT THROUGH DATA-DRIVEN DIGITAL TWIN TECHNOLOGY	INVITED SPEAKER SESSION Speaker 1 - Ir. Zalfiah binti Ayop ASSESSING DIFFERENT LOW FLOWS AND THEIR IMPACTS ON SURFACE WATER QUALITY ASSESSMENT: A CASE STUDY OF PERAK RIVER AND ITS TRIBUTARIES	INVITED SPEAKER SESSION Dr. Aliya binti Mhd Zahir ENHANCING WATER SUPPLY EFFICIENCY AND ECONOMIC RETURNS: A SATELLITE-DRIVEN APPROACH FOR IRRIGATION INFRASTRUCTURE MANAGEMENT

11.45 – 12.00pm	<p>PAPER ID 15</p> <p>Dr. Erwan Hafizi Kasiman</p> <p>APPLICATION OF HEC-RTS FOR FLOOD FORECASTING: A CASE STUDY IN BATU PAHAT, JOHOR</p>	<p>Speaker 2 - Dr. Mohd Hafiz Puteh</p> <p>RECLAMATION OF PALM OIL MILL EFFLUENT USING MEMBRANE DISTILLATION</p>	<p>PAPER ID 9</p> <p>Dr. Hazlami Fikri Basri</p> <p>UTILIZING CYTOBACILLUS HORNECKIAE BACTERIA FOR ENHANCED CRACK REPAIR THROUGH MICROBially INDUCED CARBONATE PRECIPITATION</p>
12.00 – 12.15pm	<p>PAPER ID 49</p> <p>Dr. Jazuri Abdullah</p> <p>SPI VERSUS RAI: EVALUATION OF TWO EXTREME PRECIPITATION INDICES FOR SUNGAI KEDAH BASIN</p>	<p>PAPER ID 28</p> <p>Hsu, Chia-Feng</p> <p>APPLICATION OF ARTIFICIAL INTELLIGENCE IN ANALYZING SPATIOTEMPORAL VARIATIONS IN WATER QUALITY OF THE SHIMEN RESERVOIR, NORTHERN TAIWAN</p>	<p>PAPER ID 75</p> <p>Dr. Mohamad Hasif Osman</p> <p>NUMERICAL ANALYSIS OF THE HYDRODYNAMIC LOADING OF A FLOATING TIDAL TURBINE UNDERGOING PENDULUM MOTION</p>
12.15 – 12.30pm	<p>PAPER ID 17</p> <p>Khairul Adzim bin Haji Sa'adon</p> <p>MULTISCENARIO RAINFALL PATTERN INTEGRATION FOR PROBABILISTIC FLOOD SIMULATION</p>	<p>PAPER ID 29</p> <p>Dr. Lin Ke</p> <p>CORAL RECORDS INDICATE SIX-DECADE RISE AND FALL OF ATMOSPHERIC LEAD EMISSION IN CHINA</p>	<p>PAPER ID 51</p> <p>Mr. Muhammad Safwan</p> <p>GEOSPATIAL-BASED MULTI-CRITERIA ANALYSIS OF PHYSICAL FLOOD VULNERABILITY IN SIBU, SARAWAK</p>
12.30 - 12.45pm	<p>PAPER ID 24</p> <p>Mr. Mohd Afzaihelmi Bin Mohd Ariff</p> <p>SIMULATION OF THE IMPACT OF CLIMATE CHANGE ON RIVER EQUILIBRIUM MORPHOLOGY IN THE PADAS RIVER BASIN, SABAH</p>	<p>PAPER ID 37</p> <p>Prof. Ir. Moh Sholichin</p> <p>APPLICATION OF CONSTRUCTED WETLAND (CW) WITH EQUISETUM HYEMALE, PISTIA STRATIOTES AND ECHINODORUS PALIFOLIUS FOR REDUCE WATER POLLUTION FROM DOMESTIC WASTEWATER</p>	
12.45 - 2.15pm	Lunch		
2.15 - 3.45pm	PARALLEL SESSION 5 (10 papers, 4 invited speakers)		
	<p>SESSION 5A: WSE Venue 1: Mesmera Ballroom Chairperson: Dr. Ponselvi Jeevaragagam</p>	<p>SESSION 5B: DM & ORD Venue 2: Irama 5 Chairperson: Ir. Ts. Dr. Josilva a/I M Muniandy</p>	<p>SESSION 5C: DM & ORD Venue 3: Irama 6 Chairperson: Ir. Sreedaran Raman</p>
2.15 – 2.30pm	<p>PAPER ID 25</p> <p>Prof. Vasan Arunachalam</p> <p>GRAPH BASED COMMUNITY DETECTION AND MULTIOBJECTIVE OPTIMIZATION FOR IDENTIFYING DISTRICT METERED AREAS IN WATER DISTRIBUTION NETWORKS</p>	<p>Invited Speaker</p> <p>Speaker 1 - Dr. Mazlin Jumain</p> <p>HYDRODYNAMICS OF SALTWATER INTRUSION AND DILUTION RATES IN A MEANDERING CHANNEL</p>	<p>Invited Speaker</p> <p>Speaker 1 - Dr. Ilya Khairanis Binti Othman</p> <p>PLURALISTIC VIEW OF NATURE BASED SOLUTION IN COASTAL MANAGEMENT/ SETTINGS</p>
2.30 – 2.45pm	<p>PAPER ID 3</p> <p>Ir. Mohd Saufi bin Mohd Redzuan</p> <p>FACTOR AND STRATEGIES ON NON-REVENUE WATER (NRW) MANAGEMENT IN MALAYSIA: WATER OPERATOR PERSPECTIVE</p>	<p>Speaker 2 - Ir. Dr. Hafizul Aimme bin Che Hamid</p> <p>ASSESSING CLIMATE CHANGE IMPACTS ON WATER RESOURCES IN DATA-SCARCE REGIONS: A HYDROLOGICAL MODELLING STUDY OF THE SELANGOR RIVER BASIN, MALAYSIA</p>	<p>Speaker 2 - Ir. Arman bin Mokhtar</p> <p>COASTAL INNOVATION FOR SUSTAINABLE SOLUTION -A STORY OF THE DID MARINE OUTFALL</p>

2.45 – 3.00pm	<p>PAPER ID 31</p> <p>Ing. Leticia Osae Adum</p> <p>ANALYSIS OF PIPE NETWORK FAILURE FREQUENCIES FOR WATER SYSTEMS IN LOW RESOURCED AREAS OF GHANA</p>	<p>PAPER ID 10</p> <p>Dr. Mohd. Rizaludin Mahmud</p> <p>A CONCEPTUAL FRAMEWORK FOR CLASSIFYING TROPICAL RAINFALL FROM SATELLITE PRECIPITATION RADAR IMAGERIES</p>	<p>PAPER ID 48</p> <p>Dr. Dung Duc Tran</p> <p>WATER AND CLIMATE DRIVERS OF RICE-BASED RURAL OUT-MIGRATION IN THE MEKONG DELTA: IMPLICATIONS FOR SUSTAINABLE DEVELOPMENT</p>
3.00 – 3.15pm	<p>PAPER ID 61</p> <p>Mr Nigel Martin</p> <p>THE TRANSFORMATION OF THE UK WATER INDUSTRY</p>	<p>PAPER ID 35</p> <p>Ir. Dr. Norzana Mohd Anuar</p> <p>FORECASTING COASTAL THREATS: MODELING SYNTHETIC TYPHOON-INDUCED SURGES UNDER CLIMATE-DRIVEN SEA LEVEL</p>	<p>PAPER ID 52</p> <p>Dr Ir Ts Zainab Shaikhi</p> <p>NATURE-BASED SPATIAL MODELING OF SOIL EROSION IN NORTHEASTREN LIBYA</p>
3.15 – 3.30pm		<p>PAPER ID 64</p> <p>Ir. Ts. Ahmad Hadi bin Mohamed Rashidi</p> <p>STUDY OF SCOUR AT NEXC BLOCK COASTAL REVETMENT</p>	
3.45 – 4.15pm	<p>KEYNOTE SPEAKER 6 - Assoc. Prof. Ir Dr Mohamad Hidayat Jamal, UTM</p> <p>Coastal Resilience: Understanding the Link between Groundwater Dynamics and Sandy Beach Evolution</p>		
4.15 – 4.45pm	<p>CLOSING CEREMONY</p> <p>4.15 pm - Arrival of Invited Guests</p> <p>4.30 pm - Recital of Doa</p> <p>- Closing Speech by Chairman of ICWR 2025</p> <p>- Photo Session</p>		
4.45pm	<p>Refreshments</p>		
<p>DAY 3 : 25 SEPTEMBER 2025 (Thursday)</p>			
8.30 – 1:00pm	<p>TECHNICAL VISIT</p>		