

DAY 1: 27 November 2018 (Tuesday)	
8.00 – 9.00am	REGISTRATION
9.00-9.45am	KEYNOTE SPEAKER 1: DATO' IR. DR. HJ. MD. NASIR BIN MD NOH Chairperson: Prof. Dr. Zulkifli bin Yusop Venue : Grand Ballroom Bayview Hotel Langkawi
9.45-10.30am	KEYNOTE SPEAKER 2 : PROFESSOR- VAN-THANH-VAN NGUYEN Chairperson: Ir. Hj. Mohd Fauzi bin Mohamad Venue : Grand Ballroom Bayview Hotel Langkawi
10.30 -10.55am	Refreshments
10.55 – 12.30pm	OPENING CEREMONY Venue : Grand Ballroom Bayview Hotel Langkawi 10.45 am – Arrival of Invited Guests 11.00 am – Arrival of YB. Dr. Xavier Jayakumar <ul style="list-style-type: none"> ○ Minister, Ministry of Water, Land and Natural Resources(KATS) – National Anthem – Recital of Doa – Welcoming Speech by Prof. Dr. Sobri bin Harun <ul style="list-style-type: none"> ○ Chairman of ICWR 2018 – Officiating Speech by YB. Dr. Xavier Jayakumar <ul style="list-style-type: none"> ○ Minister, Ministry of Water, Land and Natural Resources (KATS) – Momento to Minister, Ministry of Water, Land and Natural Resources (KATS) – Photo Session – Press Conference
12.30-2.00pm	Lunch
2.00-3.30pm	PARALLEL SESSION 1 (18 papers)

	SESSION 1A: WM Venue: Bayview Ballroom	SESSION 1B: ES Venue: Ruby	SESSION 1C: FM Venue: Emerald
2.00 – 2.15pm	ID : 2 Application of Soil Water Assessment tool (SWAT) for Hydrological modelling of Agricultural Watershed Azwin Zailti Abdul Razad TNB Research Sdn Bhd	ID : 43 Migration of Light Non-Aqueous Phase Liquid in Porous Media Mohd Fadhli Abd Rashid Universiti Teknologi Malaysia	ID : 22 Modelling the Impact of Climate Change on Flood: Case Study at Upper Sungai Segget Catchment Umami Hani Mahamad Anuar Universiti Teknologi Malaysia
2.15 – 2.30pm	ID : 4 Comprehensive Water Resources Assessment Considering Climate Change for the Muda River Basin, Kedah, Malaysia Ir. Dr. Asnor Muizan bin Ishak Department of Irrigation & Drainage Malaysia	ID : 13 Comparison of Contaminant Transport in Urban Stormwater Runoff and Agricultural Drainage Water, Cameron Highlands, Malaysia Nurshahira Mohammad Noh UNITEN	ID : 26 Development of Flood Risk Map in Flood Mitigation Project Sabri Abdul Mulok Department of Irrigation and Drainage Malaysia
2.30 – 2.45pm	ID : 8 Impact of Urbanization on Hydrological Characteristic of a Sub-Catchment in Klang, Malaysia Teo Fang Yenn University of Nottingham Malaysia	ID : 14 Water Quality Classification Based on Water Quality Index at River of Batu Pahat, Johor Khadijah Sulaiman University Tun Hussein Onn Malaysia	ID : 30 Evaluation of Parameter Regionalization Methods for Flood Simulations in Kelantan River Basin Ming Fai Chow Universiti Tenaga Nasional Malaysia

2.45 – 3.00pm	<p>ID : 20 Water Resources Information Management System Framework for Department of Irrigation and Drainage (DID) Malaysia</p> <p>Artiesa Arris Department of Irrigation and Drainage</p>	<p>ID : 16 The Growth of Malaysia Manufacturing Industry and Its Impact towards Water Demand Management</p> <p>Nurul Sa'Dah Bahar Universiti Teknologi Malaysia</p>	<p>ID : 53 National Flood Forecasting and Warning System of Malaysia: Automated Forecasting For the East Coast</p> <p>Wan Hazdy Azad Wan Abdul Majid Department of Irrigation and Drainage</p>
3.00 – 3.15pm	<p>ID : 24 Investigation on Launching Behaviour of Different Materials for the Protection of River Bank Erosion</p> <p>Md.Lutfor Rahman River Research Institute Bangladesh</p>	<p>ID : 19 Factors controlling water table variation at primary peat swamp catchment in Sarawak, Malaysia</p> <p>Edward Aeries Universiti Malaysia Sarawak</p>	<p>ID : 54 A Review on Geospatial Approach for Flood Risk Assessment in Malaysia</p> <p>Ismaila Usman Kaoje Universiti Teknologi Malaysia</p>
3.15 – 3.30pm	<p>ID : 31 Alternative Use of an Automated Hydraulic Flushing Gate as a Flow Control Structure</p> <p>Geok Teng Leong Universiti Malaysia Sarawak</p>	<p>ID : 25 Application of GIS in Mapping the Water Quality Parameter at Muar River Tributaries</p> <p>M Adib M Razi Universiti Tun Hussein Onn Malaysia</p>	<p>ID : 113 Patterns Of Kaolin Embankment Failures</p> <p>Zainab Mohamed Yusof Universiti Teknologi Malaysia</p>
3.30 -4.00pm	Refreshments		
4.00 – 5.00pm	PARALLEL SESSION 2 (15 papers)		

	SESSION 2A:WM Venue 1: Bayview Ballroom	SESSION 2B : ES Venue 2: Ruby	SESSION 2C : FM Venue 3: Emerald
4.00 – 4.15pm	ID : 32 Regionalization of Extreme Rainfall Prediction in Western Kingdom of Saudi Arabia Fahad Alahmadi Ministry of Enviroment, Water and Agricuture Saudi Arabia	ID : 28 A Preliminary Study of Urban Drainage System Using Eco-Composite and Effective Microorganisms in Porous Concrete Feroz Hanif Mohamed Ahmad Universiti Teknologi Malaysia	ID : 56 Nonstationary Flood Frequency Analysis of Annual Maximum Stream flows in Johor, Malaysia Using TL-Moments Approach Ani Shabri Universiti Teknologi Malaysia
4.15 – 4.30pm	ID : 33 Evaluation of groundwater recharge by rice and crop rotation fields in Kumamoto Takehide Hama Kumamoto University, Japan	ID : 29 Efficient and Environmental Friendly Drainage System for Stormwater Control Zulkiflee Ibrahim Universiti Teknologi Malaysia	ID : 59 Hydrological Response to Forest Rehabilitation in Headwater of the Ubolratana Dam in Northeast Thailand Krit Sriworamas Ubonratchathani University, Thailand
4.30 – 4.45pm	ID : 34 Monitoring Drought Using the Standardized Precipitation Index (SPI) In Sarawak River Basin Charles Hin Joo Bong Universiti Malaysia Sarawak	ID : 39 Characteristics of Time-Dependent Change of the Water Level and Quality in the Groundwater Related to Precipitation Fluctuation Which Show the Different Nitrate-Pollution Situation at the Multiple Sites Located Close to One Another Yasunori Kawagoshi Kumamoto University	ID : 66 Towards An End-To-End Flood Risk Assesment in Malaysia: Forming a Stage-Damage Relationship to Depict Vulnerability through a Case Study in Kelantan Balqis Rehan Universiti Putra Malaysia

4.45 – 5.00pm	<p style="text-align: center;">ID : 35 Cross-Cutting Of Multiple Management Strategies Towards Achieving Sustainable Water Resources Management In Malaysia</p> <p style="text-align: center;">Mohd Azmi Ismail Department of Irrigation and Drainage Malaysia</p>	<p style="text-align: center;">ID : 5 Laboratory Investigation of Non-Aqueous Phase Liquids Migration in Intact and Fractured Double-Porosity Kaolin Soil</p> <p style="text-align: center;">Loke Kok Foong Universiti Teknologi Malaysia</p>	<p style="text-align: center;">ID : 70 Experimental Characterization of Hydraulic Signature of an Urban Geometry during Floods</p> <p style="text-align: center;">Abdellah Ghenaim ICube laboratory (UMR 7357), fluid mechanics team, INSA Strasbourg, Strasbourg cedex, France</p>
5.00 – 5.15pm	<p style="text-align: center;">ID : 110 A Drought forecasting using Gaussian Process Regression (GPR) and Empirical Wavelet Transform (EWT)-GPR</p> <p style="text-align: center;">Ruhaidah Samsudin Universiti Teknologi Malaysia</p>	<p style="text-align: center;">ID : 61 Performance Analysis of Dual Water Supply System Using Rooftop Rainwater Harvesting System and Groundwater for Non-Potable Use</p> <p style="text-align: center;">Siti Nazahiyah Rahmat Universiti Tun Hussein Onn Malaysia (UTHM)</p>	<p style="text-align: center;">ID : 18 Human Capital Development For Mechanical Engineers In Department Of Irrigation And Drainage, Malaysia</p> <p style="text-align: center;">Hapida Ghazali Department of Irrigation and Drainage</p>
DAY 2: 28 NOVEMBER 2018 (Wednesday)			
8.30 – 9.30am	PARALLEL SESSION 3 (12 papers)		

	SESSION 3A: WM Venue 1: Bayview Ballroom	SESSION 3B: ES Venue 2: Ruby	SESSION 3C: FM Venue 3: Emerald
8.30 – 8.45am	<p>ID : 51 Landuse Impacts on Water Quality of the Lake and River Environment of Tasik Chini Pahang</p> <p>Norlida Mohd Dom The Regional Humid Tropics Hydrology and Water Resources for Southeast Asia and the Pacific (HTC KL), Kuala Lumpur, Malaysia</p>	<p>ID: 48 Water Quality Assessment of Some Selected Hand Dug Wells and a Borehole in North Western Parts of Bauchi Metropolis, Nigeria</p> <p>Sanusi Magaji Department of Science Laboratory Technology, School of Science and Technology,</p> <p>Abubakar Tatari Ali Polytechnic, Bauchi, Nigeria.</p>	<p>ID: 74 A Composite Indicator Approach to Assess Flood Vulnerability in Malaysia</p> <p>Daniel Yu Chuan Liew Department of Irrigation and Drainage, Malaysia.</p>
8.45 – 9.00am	<p>ID : 60 Pre Assessment Sedimentation Study for Kenyir Hydroelectric Scheme</p> <p>Siti Humaira Haron Universiti Tenaga Nasional</p>	<p>ID : 55 The Impacts of Compost Variation and Landscape Plant on Hydrologic Performance in Bioretention Facilities</p> <p>Husna Takaijudin Univerisiti Teknologi PETRONAS</p>	<p>ID : 100 Hydrological Flood Forecasting With Updating Prediction Based On Antecedent Error Correction</p> <p>Sazali Osman Department of Irrigation and Drainage, Malaysia</p>

9.00 -9.15am	<p align="center">ID : 62</p> <p align="center">A Procedure of Stepwise Dynamic Rule Curves to Multipurpose Reservoir Operation</p> <p align="center">Chavalit Chaleeraktragoon Thammasat University,Thailand</p>	<p align="center">ID : 65</p> <p align="center">The time of concentration and limitation on its application related to the flood level-river physical geometry relationship</p> <p align="center">Abd Jalil Hassan Universiti Teknologi Malaysia</p>	<p align="center">ID : 115</p> <p align="center">Flood Risk Assessment for Dam Break Using GIS Application</p> <p align="center">Rahsidi Sabri Muda TNB Research Sdn. Bhd., Malaysia</p>
9.15 – 9.30am	<p align="center">ID : 63</p> <p align="center">Functional Data Analysis in Streamflow Hydrograph: Application to Sg. Kelantan River Basin</p> <p align="center">Shariffah Suhaila Syed Jamaludin Universiti Teknologi Malaysia</p>	<p align="center">ID : 80</p> <p align="center">Water Resources and Environmental Challenges of a Mega City of Nigeria</p> <p align="center">Mohammed Sanusi Shiru Universiti Teknologi Malaysia</p>	<p align="center">ID : 116</p> <p align="center">Flood Simulation Model Using Hydrology Tools GIS and XP-Storm Water Management Model (XP SWMM) Software</p> <p align="center">Muhammad Hassim Universiti Teknologi Malaysia</p>
9.30 – 10.00am	Refreshments		
10.00 -11.00am	KEYNOTE SPEAKER 3 – PROFESSOR EIICHI NAKAKITA Chairperson: Prof. Van-Thanh-Van Nguyen		
11.00 – 12.30am	PARALLEL SESSION 4 (18 papers)		

	SESSION 4A: WM Venue 1: Bayview Ballroom	SESSION 4B: ES/ORD Venue 2: Ruby	SESSION 4C: WSE Venue 3: Emerald
11.00 – 11.15am	<p>ID : 67 Impact of Proactive Agricultural Land Use Management on Runoff in the Upstream and Downstream Areas of the Multi-purpose Reservoir</p> <p>Haris Prasanchum University of Technology Isan, Thailand</p>	<p>ID : 85 Adaptation Mechanism for Microcystin in Cyanobacteria-Predators</p> <p>Takeru Yanagiya University of Tsukuba, Japan</p>	<p>ID : 50 Water Supply System Drought Resilience Assessment Using Conjunctive-Use Modelling and Optimised Reservoir Control Curves</p> <p>Mohd Fawwaz Mohd Fauzi HR Wallingford</p>
11.15 – 11.30am	<p>ID : 78 Potential Impacts of climate change on the hydrological cycle of Haro River basin, Pakistan</p> <p>Saima Nauman Universiti Putra Malaysia, Malaysia</p>	<p>ID : 104 Separation Dehydration of N-Butanol from Water using Graphene Oxide-Polyetherimide Membrane via Pervaporation</p> <p>Mohd Ghazali Mohd Nawawi Universiti Teknologi Malaysia</p>	<p>ID : 57 Development of LUAS Intelligent Support System for Sustainable Water Resource Management for Sungai Langat</p> <p>Alain Weisgerber HR Wallingford Asia Sdn Bhd</p>
11.30 – 11.45am	<p>ID : 81 Study on Availability of Groundwater Resources in Selangor State of Malaysia to Meet the Future Water Demand for an Efficient Planning and Management of Water Resources</p> <p>Goutam Chandra Mridha Institute of Water Modelling (IWM), Dhaka, Bangladesh</p>	<p>ID : 118 Nutrients and Heavy Metals Removal of A Laboratory Scale Prototype Biofiltration System Under Tropical Condition</p> <p>Andreas Aditya Hermawan Monash University Malaysia</p>	<p>ID : 75 Physical Tsunami Modelling – A Review of Laboratory Tsunami Wave Generation Mechanism</p> <p>Wei Koon Lee Universiti Teknologi MARA</p>

11.45 – 12.00pm	<p>ID : 82 Quality Characterization of Groundwater Using Well Head Protection Areas (WHPA) Method, Vulnerability Assessments and Water Quality Index (WQI) for Selangor State, Malaysia</p> <p>Goutam Chandra Mridha Institute of Water Modelling (IWM), Dhaka, Bangladesh</p>	<p>ID : 94 Study On Water Quality Effect Due To Erosion And Sedimentation Process Around Tasik Chini</p> <p>Che Abdul Hafiz Che Yahya Universiti Malaysia Pahang</p>	<p>ID : 95 The Reliability and Cost Analysis of a Rainwater Harvesting System for the University of Nottingham Malaysia Campus</p> <p>Teo Fang Yenn University of Nottingham Malaysia</p>
12.00-12.15pm	<p>ID : 83 Irrigation Management Transfer's Role in the Performance of Irrigation Systems in Davao Del Sur, Philippines</p> <p>Amie Lou Cisneros Cor Jesu College, Digos City, Davao del Sur, Philippines</p>	<p>ID : 42 Property Market Price Response to Flood Hazard</p> <p>Muhammad Najib Razali Universiti Teknologi Malaysia</p>	<p>ID : 108 Numerical Simulation of Groundwater Flow in Shendi sub-Basin, Sudan</p> <p>Adil Elkrail Al Neelain University , Khartoum, Sudan</p>
12.15-12.30pm	<p>ID : 90 Simulation of Climate Change Impact on Future Runoff in Nong Han Lake Using SWAT Hydrological Model</p> <p>Jirawat Supakosol University of Technology Isan, Thailand</p>	<p>ID : 23 Comparative Assessment of Moyog River Watershed and Malaysia Water Quality Index</p> <p>Suzanna Wong Universiti Malaysia Sabah</p>	<p>ID : 121 Identifying the Economic Attributes Factors in Determining the Impact of Flood towards Residential Property Valuation</p> <p>Siti Hafsah Zulkarnain UiTM Shah Alam</p>
12.30-2.00pm	Lunch		
2.00-4.00pm	PARALLEL SESSION 5 (23 papers)		

	SESSION 5A: WM Venue 1: Bayview Ballroom	SESSION 5B: CM Venue 2: Ruby	SESSION 5C: MC/WSE Venue 3: Emerald
2.00 – 2.15pm	<p>ID : 93 Sediment Load Prediction for Rivers in Malaysia using the Evolutionary Polynomial Regression Technique (EPR)</p> <p>Nadiatul Adilah Ahmad Abdul Ghani Universiti Teknologi Mara (Shah Alam)</p>	<p>ID : 7 Sea Level Rise and Its Physical Impact on Coastal Hydrodynamics Around Langkawi Island, Malaysia</p> <p>Nor Aslinda Awang National Hydraulic Research Institute Malaysia</p>	<p>ID : 15 Ensuring Safety Of Water Infrastructure To Enhance Water Security Through Iwrm Approach: Experience In Dam Safety Management Studies And Programs.</p> <p>Ir. Arshad Sardi, Ir. Zakiyyah Muhammad, Mohd Hazri Moh Khambali Department of Irrigation and Drainage, Malaysia</p>
2.15 – 2.30pm	<p>ID : 114 Geometric Assessment of Watershed Boundary Delineated from ASTER30 and SRTM90 for Peninsular Malaysia</p> <p>Noradila Rusli Universiti Teknologi Malaysia</p>	<p>ID : 27 Numerical Study on Drag and Lift Coefficients of a Marine Riser at High Reynolds Numbers using FLOW-3D</p> <p>Mohamad Faizal Ahmad Universiti Teknologi Malaysia</p>	<p>ID : 47 Comparison of Cuckoo Search Neural Networks and Cuckoo Search Optimisation Neural Networks for Rainfall Forecasting: Case Study for Kuching City</p> <p>King Kuok Kuok Swinburne University of Technology Sarawak, Malaysia</p>
2.30 – 2.45pm	<p>ID : 117 Annual Rainfall Variations in peninsular Malaysia under Climate Change Scenarios</p> <p>Muhammad Noor Universiti Teknologi Malaysia</p>	<p>ID : 37 Aggregation and Insolubilization Properties of Nano- and Micro-Scale Riverine Materials in Coastal Area – A Case Study in Shirakawa and Midorikawa Rivers, Kumamoto, Japan</p> <p>Hiroaki Ito Kumamoto University</p>	<p>ID : 84 Improving satellite-based estimations of daily rainfall for large scale rice-crop modelling applications</p> <p>Siti Najja Mohd Zad Universiti Putra Malaysia, Malaysia</p>

2.45 – 3.00pm	<p style="text-align: center;">ID : 68 Apportionment of Sediment Source In Galas Catchment: An Application of Sediment Fingerprinting Approach</p> <p style="text-align: center;">Dhinesh Sugumaran Universiti Teknologi Malaysia</p>	<p style="text-align: center;">ID : 52 A Study On Beach Protection System Using NAHRIM Coastal Erosion Protection And Beach Expansion (NEXC) Block At Pantai Batu 5, Port Dickson, Negeri Sembilan, Malaysia</p> <p style="text-align: center;">Ahmad Hadi Mohamed Rashidi National Hydraulic Research Institute of Malaysia, MALAYSIA)</p>	<p style="text-align: center;">ID : 102 Alternative Approach for Flood Control Rule Curves</p> <p style="text-align: center;">Anongrit Kangrang Mahasarakham University, Thailand</p>
3.00 – 3.15pm	<p style="text-align: center;">ID : 36 Rainwater Harvesting System for Non-Potable Uses in Commercial Building</p> <p style="text-align: center;">Achmad Syafiuddin Universiti Teknologi Malaysia</p>	<p style="text-align: center;">ID : 9 Coastal Vulnerability Indicators in Langkawi Island Under Sea Level Rise Impact</p> <p style="text-align: center;">Norzana Mohd Anuar National Hydraulic Research Institute Malaysia NAHRIM</p>	<p style="text-align: center;">ID : 123 River of Life (ROL): Overview, Challenges, Lesson Learned and Way Forward</p> <p style="text-align: center;">M.K. Selamat Department of Irrigation and Drainage</p>
3.15 – 3.30pm	<p style="text-align: center;">ID : 89 Contextualize the Interaction of Land Use Change and Hydrological Factors on Soil Erosion Rate in the North-Eastern of Peninsular Malaysia</p> <p style="text-align: center;">Nur Athirah Mohamad Universiti Teknologi Malaysia</p>	<p style="text-align: center;">ID : 107 Modelling of Oil Spill Drifts in Sungai Pulai Estuary, Johor</p> <p style="text-align: center;">Lavine Wong Universiti Teknologi Malaysia</p>	<p style="text-align: center;">ID : 120 A Big Data Approach To Water Resources Engineering In Malaysia</p> <p style="text-align: center;">Teo Fang Yenn University of Nottingham Malaysia</p>

3.30 – 3.45pm	<p style="text-align: center;">ID : 45 Hydrologic Enforcement vs Object Points Removal of Hydrographic LiDAR DEM</p> <p style="text-align: center;">Shajoeril Tajudin VTS Universe Sdn Bhd, Malaysia and Department of Irrigation and Drainage, Malaysia,</p>	<p style="text-align: center;">ID : 91 Interaction of Groundwater Levels, Tides and Waves on a Sandy Beach Profile</p> <p style="text-align: center;">Nor Suhaila Rahim Universiti Teknologi Malaysia</p>	<p style="text-align: center;">ID : 119 Evaluation of Water Consumption Patterns in Universiti Kebangsaan Malaysia (UKM)</p> <p style="text-align: center;">Norzaidaltul Azmira Mansor The National University of Malaysia (UKM), Malaysia</p>
3.45 – 4.00pm	<p style="text-align: center;">ID : 109 Effects of Backwater on Hydraulic Performance Evaluation of Rainsmart Modules in Sustainable Drainage Systems</p> <p style="text-align: center;">Abdurrasheed Sa'id Abdurrasheed Universiti Teknologi Petronas</p>	<p style="text-align: center;">ID : 17 Competency-Based Human Resource Management: The Nucleus of Competency Model Development in Water Resource Engineering Field in Malaysia</p> <p style="text-align: center;">Mohd Azmi Ismail, Norizan Abdul Aziz, Siti Fairus Zakaria Department of Irrigation & Drainage, Malaysia</p>	<p style="text-align: center;">ID : 124 Development of Residential Flood Information Map Using Geographical Information System (GIS)</p> <p style="text-align: center;">Siti Hafsa Zulkarnain UiTM Shah Alam</p>
4.00 – 4.30pm	<p>CLOSING CEREMONY</p> <p>3.45 pm – Arrival of Invited Guests</p> <p>4.00 pm – Recital of Doa</p> <p>– Closing Speech by YBhg. Dato' Ir. Hj. Nor Hisham bin Mohd Ghazali Director, Water Resources Management & Hydrology Division, DID</p> <p>– Momento to YBhg. Dato' Ir. Hj. Nor Hisham bin Mohd Ghazali</p> <p>– Photo Session</p>		
4.30pm	<p>Refreshments</p>		

