



International Conference on Water Resources ICWR 2009

"Innovative Water Resources Management towards Adaptations to Climate Change"

Date : 26-27 MAY 2009

**Venue : BAYVIEW HOTEL,
LANGKAWI, KEDAH, MALAYSIA**

REGISTRATION FEE

The registration fees for the conference, which cover conference CD proceedings, technical sessions, luncheons, refreshments and certificate of participation only. The participants may check the hotel rates from the ICWR 2009's website to book your accommodation at the Bayview Hotel, Langkawi, Kedah, Malaysia.

Local Participant **RM 990.00** per pax/including co-author)
Local Presenter **RM 990.00** per paper
International **USD300.00** per paper/pax

SUBMISSION PROCEDURES

Papers must be reach the Conference Secretariat on or before the specified deadlines. Please refer to the conference website <http://seminar.spaceutm.edu.my/icwr2009> for guidelines on paper format.

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Adaptive Soft Computing in Water Resources

"Radial Basis Function Neural Network Forecasting Model for Johor River Inflow Basin"- Ayad Sh Hmud, UKM, Malaysia

"Daily Reservoir Inflow Forecasting Using Adaptive Neuro-Fuzzy Inference Systems"-Shahram Karimi, Googhari, Iran-Malaysia

"Regional Hydrological Drought Prediction Using Cellular Automata" - Shahab Araghinejad, Iran

"Prediction of the Depth of Scour around Hydraulic Structure Using Soft Computing Techniques" – Azamatulla, USM, Malaysia

"Immune-Based Algorithm for Sea Level Rise Detection" - Bariah Yusob, UTM, Malaysia

"Bio-Inspired Clustering On Less Parameter of Water Treatment Plant Data" - Massudi Mahmuddin, UUM, Malaysia

"Development of A Non-Linear Theoretical Model Based On Ann for Streaming Water Quality Prediction" - Ali Najah, UKM, Malaysia

"Data Mining Using Hopfield Neural Network"-Saratha Sathasivam, USM, Malaysia

"Hourly R-R Modelling Using Pso Feed Forward Ann"-Kelvin Kuok King Kuok, DID, Malaysia

"Reservoir Water Level Prediction Using Ann"-Wan Hussain Wan Ishak, UUM, Malaysia

"River Ranking Using Fuzzy AHP"-Mohamad Ashari Alias, Siti Zaiton Hashim, Supiah Shamsudin, UTM, Malaysia

"Pan Daily Evaporation Estimation Using Ann Based Models"-Shahram Karimi-Googhari, Iran

"Numerical Simulation of Coastal Pollution in Sungai Johor Estuarine System" - Noor Baharim Hashim, UTM, Malaysia

"Adsorption of Phenol from Aqueous Solutions Using Incinerated Sewage Sludge" - Wan Afnezam Wan Mohamed, UTHM, Malaysia

"Chemical Flocculation as A Pretreatment for Epoxidised Natural Rubber (ENR) Wastewater" - S. Pretibaa, MRB, Malaysia

"A Study on Lead, Cadmium and Chromium Content in Rainwater" - Mas Rahayu Jalil, UTHM, Malaysia

"Purification Of Contaminated Finer With Subsurface Flow Constructed Wetland"- D.-K. Lee, Korea

"Removal of Foam Flow Sea Water Used As the Cooling Water of a Coal-Fired Power Plant" - D.-K. Lee, Korea

"Biogas Production from Agro waste" - N. Zainol, UMP, Malaysia

"Water Quality and Land Use- Land Cover Relationship in Atlantic Forest Microbasins- Rio De Janeiro, Brazil" - Rachel Bardy Prado, Brazil

"Studies of Water Quality In Home Piping Systems Using Visual Basic Software" - A.M. Nor Mastura, UTHM, Malaysia

"Hydrologic Effectiveness for Detention Pond Design at Southern Johor" - Supiah Shamsuddin, UTM, Malaysia

"Water Quality Trend of Upper Part of Johore River In Relation To Rainfall and Runoff Processes" - Ayub Katimon, Hasmida Hamza, UTM, Malaysia

"Evaluation of Gross Pollutant Traps (GPTS) For Open Channel System" - Norhan Abd Rahman, Noraliani Alias, Noor Suraya Romali, UTM Malaysia

"GIS-Based Non-Point Sources of Pollution Simulation in Bertam River, Cameron Highlands"-Amirhossein Malakahmad, UTP, Malaysia

"Indicators Of Microbial Water Quality In Selected Palm Oil Estates In Kota Tinggi, Johor, Malaysia" - Siti Farizwana, Zurahanim Hakim S.L.B, Lim K.H.C, Kamaluddin M.A.A, Institute Medical Research, Malaysia

"The Study of Stabilization Pools in the System Of Civic Sewage Purification Of Susangerd (Iran)" - A.R. Masjedi, N. Jafarzadeh Haghighi Sh. Kalantarzadeh, Islamic Azad University, Iran.

"Prediction Capabilities Of Swan Modelling Using Coarse And Finer Grid Size At Batu Pahat, Johor, Malaysia" - Norazlina Bateni-Noor Baharim Hashim, UNIMAS, Malaysia

"Risk Analysis on Storing Water and Generating Electric of Reservoir Operation"-Ye Yan, China

"Climate Change Impacts On Paddy Water Requirements In Korea" - S.-O. Chung, Korea

"An Experimental Study on the Flow Characteristics in Straight Compound Channels"-Zulkiflee Ibrahim, UTM, Malaysia

"Assessment of Sediment Loads Transport in A Watershed Scale Under Climate Change Scenarios: A Case Study" - Mohammad Karamouz, Iran

"Sediment Yield Analysis for Johor River Basins" - Supiah Shamsuddin, UTM, Malaysia

"The Effect Of Climate Change On Dam Performance: Malaysian Scenario"- Faizah Che Ros, UNITEN, Malaysia

"Water Management Perspective from Islamic Perspective"- Ahmad Zaharudin, UUM, Malaysia

"An overview of sedimentation modeling" - Nadiatul Adilah A. A.Ghani, Mohamed Shahin, Hamid Nikraz, Malaysia

"Remote Sensing-GIS Application in Monitoring Water Quality Parameter" - Norsaliza Usali, Mohd Hasmadi Ismail, UPM, Malaysia

"Deposition of Sediments in Detention Pond" - Tarmizi Ismail, Mazlina Alang Othman, Abu Bakar Fadzil, Norleen Fariza Abdul Mulok, UTM Malaysia

"Local Scour Downstream Of A Circular Wall Jets" - Mehraein Mojtaba, Iran

"A Hybrid Simulation/Optimization Model for Reservoir Operation under Drought Conditions" - Keyvan Asghari, Iran

"Studying the Effect of Groin Length on Scoring Depth around it across 180 Deg Bend" - A.R.Masjedi, A.R. Otoufi, Islamic Azad University, Iran

"Experimental Study on the Effect of Cylindrical Bridge Pier Position on the Scoring Depth in the Rivers Bend" - A.R.Masjedi, H.Kazemi, Islamic Azad University, Iran.

Environment and Coastal Zone Management

"No3-N Uniformity Distribution In Soil, Water, And Plant In The Management Of Wheat Fertigation Based On Three Irrigation Management Strategies In A Semi Arid Region" -Ali Asghar Ghaemi, Iran

"A Compact Imaging Spectrometer (Comis) For a Microsatellite Statsat3 for In-Land Water Control of South Korea" - Jun Ho Lee, Korea

"Renewable Energy from Biogas Generated By Sewage Sludge-Relationship between Organic Content and Methane Generation" - Suzana Ramli, Malaysia

"Engineered Wetlands for Wastewater Treatment in Sarawak"- Tan Fu Ee, Curtin University, Sarawak

"Water Management And Conservation: From A Beach Resort's Perspective"- Chek Min En, Frangipani Resorts, Langkawi, Malaysia

"The Importance of Compound Channel Hydraulics in Spatial and Temporal Distributions of Pollutant Transport Using Pollute1" - Mojtaba Hamzeh Ghassabsaraei, Iran

"On The Understanding of the Coastal Erosion Problem and Development of Protection Scheme for Pantai Sabak, Kelantan" - Ahmad Mustafa Hashim, UTP, Malaysia



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LANGKAWI GEOPARK

The Integrated Water Resources Management has become widely accepted as a key to sustainable water management. It requires integration both within and between the natural and the human system. The water sub-sectors that deserve constant attention and urgent effective action from stakeholders at all levels are Coastal and Marine Management, Dam and Reservoirs, Groundwater, Irrigation and Drainage, River Basin Management, International Waters, Water and Environment, Water Economics and Institutions, Water Supply and Sanitation, and Watershed Management.

Climate variability has a direct and fundamental bearing on water resources and its management. The by-products of industrial and agricultural activities were recognized as potential causes to climate change in the form of global warming. The impacts are the extreme weather conditions of floods and droughts have become more frequent in many countries in the recent decade and Malaysia is not excluded from this phenomena. The climate change and its variability will exacerbate vulnerability of water resources unless innovative management practices to help cope with, and adapt to, these changes are put in place. A new management approach shall be explored that moves beyond technical quick fixes towards a more adaptive style that is inclusive and innovative.

This ICWR-09 conference will seek and offer the best platform to bring forward research findings, case studies, success stories, recent advances in planning and design methodologies and examples of improved water management policies, institutions, strategies and practices.

Who Should Attend?

The conference aims to bring

- academicians
- engineers
- researchers
- graduate students
- professionals
- government agencies
- consultants
- contractors
- decision makers
- policy makers
- NGOs
- interested individual and organizations together for exchange of views and experiences on water resources.

Important Dates

Deadline for Full Paper Submission

28 FEBRUARY 2009

Notification of Full Paper Acceptance

15 MARCH 2009

Conference

26-27 MAY 2009

Post-Conference Edu-tourism Tour

28 May 2009

*(1/2 day Edu-Tourism Tour) * Optional*

PACKAGE 1 (RM45/pax)

Island Hopping

Duration: 4 hours (8am-12pm)

- ~ Return Land Transfer
- ~ Pregnant Maiden Lake
- ~ Beras Basah Island
- ~ Singa Besar Island
- ~ Eagle feeding Or

PACKAGE 2 (RM40/pax)

Mangrove and Cave Tour

Duration: 3 hours (8am-11am)

- ~ Return Land Transfer
- ~ Fish Farm
- ~ Bat Cave
- ~ Crocodile Cave
- ~ Mangrove River
- ~ Eagle Feeding Or

PACKAGE 3 (RM85/pax)

Half Day Tour

Duration: 5 hours (8am-1pm)

- ~ Gamat Factory
- ~ Atma Alam Batik Centre
- ~ Underwater World
- ~ Cable Car
- ~ Malay/English Speaking Guide
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NOTES:

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- Food & Beverages is not provided, at your own expenses.

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THEME

FLOOD MANAGEMENT

- Socio-economic and environmental impacts of flood
- Flood hazard management plan
- Floodplain management and flood risk mapping
- Flood mitigation and innovative control measures
- Dam and reservoirs as flood control structures
- Rainfall modelling and flood forecasting system
- Coping with climate change and adaptive measures
- Management capacity for sustainable infrastructure
- Urban stormwater and rainwater harvesting

WATER SUPPLY AND WATER ECONOMICS

- Reservoir management and water supply
- Groundwater management and modelling
- Groundwater for drinking and irrigation
- Water supply and sanitation
- Water management and irrigation system
- Water distribution system and modelling tools
- Sustainability and competitiveness investment
- Conservation and water use efficiency
- Water for food and irrigated agricultural land
- Economics analysis of water and modelling tools
- Stochastic programming and bargaining theory
- Water and hydropower generation

WATERSHED MANAGEMENT

- Multiobjective planning and management
- River engineering and sediment transport
- River-reservoir and ecosystem management
- Coping with climate change impact
- International water laws and treaties
- Integrated river basin management
- Forest hydrology and peat soil management
- Remote sensing, GIS and AI applications
- Information management system
- System analysis in water resources

WATER RELATED NATURAL DISASTER

- Tsunami modelling and regional disaster
- Coastal flooding and defence
- Erosion and land stability
- Numerical methods application
- Sea level rise and adaptation strategy
- Reports on the costs of damages and disruption
- Global warming and drought management strategy
- Disaster risk management

ENVIRONMENT AND COASTAL ZONE MANAGEMENT

- Prevention and mitigation measures of water pollution
- Coastal and ocean climate variation
- Aquatic biodiversity maintenance
- Contamination of lakes, rivers and wetland ecosystems
- Coastal and marine management
- Port structure and navigation channel
- Climate variability and modelling
- Integrated coastal zone management
- Environmental hydraulics and hydrology
- Water pollution and ecosystem degradation

ADAPTIVE SOFT COMPUTING IN WATER RESOURCES

- Fundamental of Soft Computing & Optimization
- Adaptive Fuzzy Systems
- Adaptive Neural Networks
- Neuro-Fuzzy Systems
- Neuro-Rough Systems
- Neuro-Fuzzy- Genetic Systems
- Data Mining & Intelligent Information Retrieval
- Intelligent Software Agent Systems and Architectures
- Evolutionary Computing & Artificial Immune Systems

KEYNOTE SPEAKERS

DATO IR AHMAD HUSAINI SULAIMAN



Director General, Department of Irrigation and Drainage, Ministry of Natural Resources and Environment, Malaysia. Dato' Ir. Husaini Sulaiman obtained his first degree in Civil Engineering from Loughborough United Kingdom in 1978 and Master degree from Leuven, Belgium in Irrigation Engineering in 1986. He served various designation in the Department of Irrigation and Drainage (DID) started as an Engineer (1986-1988), state DID Melaka director (1988-1990), DID Selangor deputy director (1990-1996), DID Johor deputy director (1996-1999), National Hydraulic Research Institute Malaysia (NAHRIM) as head of hydraulic Engineering (1999-2002), Project Engineer for Malaysian Multimedia Super Corridor (2002-2003), DID state Negeri Sembilan director (2003-2006), DID Headquarters as a deputy director general (2006-2007) and currently, he is a Director General for DID Headquarters.

PROFESSOR HOWARD WHEATER



Howard Wheator is a Professor of Hydrology at Imperial College and Director of the Imperial College Environment Forum. He is a past-President of the British Hydrological Society, a Fellow of the Royal Academy of Engineering, a Fellow of the Institution of Civil Engineers, and a life member of the International Water Academy (Oslo). He has a wide international experience of flood, water resource and water quality studies, including the Middle East, Far East, Africa and South America, and was recently awarded the Prince Sultan bin Abdulaziz International Prize for Water. His scientific output includes 200 refereed papers and 7 books. He is co-Chair of UNESCO's GWADI arid zone water resources programme and a member of the GEWEX scientific steering group of the World Climate Research Programme. In the UK, he is Chair of HYDRA, a water science consortium of universities and research institutes, and currently leads a national research programme in Flood Risk Management.

PROFESSOR MOHAMMAD KARAMOUZ



Mohammad Karamouz is a Professor of Water Resources Engineering at School of Civil Engineering, Fanni College, University of Tehran. He is now affiliated with Polytechnic University of New York University in New York City as a Research Professor. He is also Fellow of American Society of Civil Engineers. He obtained his PhD in Hydraulic and System Engineering, Purdue University, West Lafayette. He served as Visiting Professor of Water Resources at University of Arizona, Tucson, served as Dean and Professor of Civil Engineering at Pratt Institute Brooklyn, New York. His academic research projects mainly related to decision support system, decision making in water resources, optimal management of water quantity and quality, drought management strategy, reservoir operation and flood control. Professor Karamouz serves nationally and internationally as a consultant.

PROFESSOR VAN THANH VAN NGUYEN



He obtained his PhD in Hydrology and Water Resources, University of Montreal, Canada. He is endowed Bruce Professor Chair in Civil Engineering. Professor Nguyen's teaching and research contributions have been mostly in the areas of hydrology and water resources management. More specifically, his teaching duty in the past several years includes: hydrology, water resources management, systems analysis, statistics and stochastic processes. His research experience includes: modelling and simulation of hydrologic processes, modelling of urban storm drainage and river basin systems, and multi-purpose reservoir systems operation and management. He has been involved in a number of projects with various engineering companies in Canada.

SUBMITTED ABSTRACTS

Flood Management

"Design of High Gravity Dam and Its Stability Analyses For Varying Earthquake Intensities"-Md Hazrat Ali, UTM, Malaysia

"Radial Basis Function Neural Network Forecasting Model for Johor River Inflow Basin"- Ayad Sh Hmud, UKM, Malaysia

"An Investigation of Cavitation in Various Types of Stepped Spillways Including Simple Inclined Steps and Steps with End Sills By Numerical Model"-Iman Naderi Rad, Iran

"Direct Impact of Floods and Drought Is an Unbalanced Food Supply Chain: Is Social Darwinism Back Again"-Mitrabinda Panda, Curtin University, Sarawak, Malaysia

"The Spatial and Temporal Pattern of Precipitation in Iran and Its Relation to Enso"-Nozar Samani, Iran

"Experimental Study on Vehicles in Flooded Urban Areas"-Fang Yenn Teo, Cardiff, United Kingdom

"Water Delivery Optimization Program, Of Jiroft Dam Irrigation Networks, Using Genetic Algorithm"-Mohamad Bagher Rahnama, Iran

"Simulation of Chutes Catiations by Flow 3-D Software"-Golam Abbas Barani, Iran

"Large-Scale Variability Of Rainfall: Creation and Analysis of A New Daily Gridded Data Set for Peninsular Malaysia"-Chee Loong Wong, UNESCO-Netherlands-Malaysia

"Reservoir Operation Optimization Associated With Improvement of Agriculture Yield for Amirkabir Reservoir in Iran Using Simulated Annealing Approach"-Mohammad Arshadi, Iran

"Application Loess Soils in Establishment of Small Embankment Dams"-Hamid Reza Asgari, Iran

"A Review: Low Impact Development (Lid) As an Alternative Approach to Stormwater Management"-Siti Nazahiyah Rahmat, UTHM, Malaysia

"Seepage Analysis Through An Earth Dam Using Seep/W Model: The Case of Bukit Merah Dam, Perak, Malaysia"-Wan Afnizam Wan Mohamed, UTHM, Malaysia

"Geostationary Meteorological Satellite-Based Quantitative Rainfall Estimation (GMS-Rain)"-Wardah Tahir, UiTM, Malaysia

"A Comparative Analysis of Hydrologic Responses to Rain Water Harvesting - A Case Study"-Er. A. Jebamalar, India

"Regional Analysis for Flood Estimation of Sittong Basin"-Ma Kay Thwe Tun, Myanmar

"Overview of Selected Climate Models for Flood Forecasting"-M.R.M. Adib, UTHM, Malaysia

"The Development of Rainfall Simulator for Runoff Coefficient Studies"-Zullyadini A. Rahaman, USM Malaysia

"The Structure of 1-Day Temporal Storm Pattern within Design Storm"-Masimin, Sobri Harun, Indonesia-Malaysia

"Traditional Method of Flood Plain Management by Bamboo Groves"-Jshigaki T., Japan

"Evaluation of Urban Flood Uncertainty Due To Rainfall and Sediment Loads Variability"-Sara Nazif, Mohammad Karamouz, Iran

"Drain System in Flat Area with Low Infiltration Rate Using Groundwater Recharge Well"- Sabariah Musa, Dwi Tjahjanto, UTHM, Malaysia

"Physical Flood Modelling Evaluation Of River Meandering Channel In Tidal Effected Reach"-Mohd Fauzi Mohamad, Norhan Abd Rahman, Abd Jalil Hassan, UTM, Malaysia

"Characteristics of Short Time Increment Malaysian Rainfall"- Rao, UM, Malaysia

Convective Rainfall characteristics in Ampang, Selangor" – Nordila, Zulkifli Y, Zalina Md, UTM, Malaysia

Water Supply & Water Economics

"Alleviating Water Consumption Shared Responsibilities Issue Via Prudent Knowledge Management (Km) Approach"-Che Ros Ngah, UMT, Malaysia

"Simulating Effect of Capillary Fringe to Saturation Of Root Zone By Lecham Code On Designing Drainage System In North Of Iran"-Bijan Majzadeh, Iran

"Estimating Infiltration Parameter for Simulating Advance Flow in Furrow"-Bijan Majzadeh, Iran

"Clay Pitcher Irrigation System for Cucumber in Green House"-Bijan Majzadeh, Iran

"Flow Pattern and Hydraulic Characteristics for Subsurface Drainage Module"-Lai Sai Hin, USM, Malaysia

"An Empirical Study on the Feasibility of Water as the Alternative Energy Sources to Replace Fuel Dependency"-Nor Razuana Amram, UNITEN, Malaysia

"The Valuable Water and Its Role in the Improving Water Productivity under Water Stress-Condition"-A. A. Ghezelsolfoo, Ali R.N. Shamloo, Iran

"Simultaneous Layout and Pipe Size Optimization of Pressurized Irrigation Water Distribution Networks"-Bahram Sami Kashkooli, Iran

"An IRWM Approach to Manage Nutrients Using an Object Oriented Modeling Based On the Concepts of Systems Dynamics: An Economic Perspective"-Maryam Ghashghaie, Iran

"Development of an Expert System Prototype to Monitor Surface Water Quality during Construction Activities"-Leila Ooshaksaraie, UKM, Malaysia

"New Agriculture and the Implication of Water Use: Malaysia Perspective"-Mahmad Nor Jaafar, UNIMAP, Malaysia

"Feasibility to Use Aero-Infiltration in Measuring of the Infiltration Rate and Soil Moisture Content"-Mohamad Ali Fulazzaky, UTHM, Malaysia

"Study on Fluoride and Bromide In Groundwaters Of Devarakonda, Peddagattu And Seripallin Areas Of Nalgonda District Andhra Pradesh, India"-Brindha K., India

"Sustainable Management of Water Resources Overview of Malaysian Laws and Policies"-Wan Izatul Asma Wan Talaat, UMT, Malaysia

"Effort towards Rehabilitation of Bunut Lake Sarawak"-Alexander K Sayok, UNIMAS, Malaysia

"Urban Stormwater Runoff Management to Improve the Quality and Quantity of Groundwater"-Lawal Abdul Qayoom Tunji, UTHM, Malaysia

"Channel Modification of Taman Harmoni Simpang Renggam, Johor towards Year 2015 Using Masma and Smada"-Zarina Md Ali, UTHM, Malaysia

"Modelling Of Volatile Organic Compounds in Groundwater System"-Norhan Abd Rahman, UTM, Malaysia

"Groundwater Potential Analysis Using Remote Sensing and GIS and Its Implication To The Geological Strata Appearances In Perlis, Malaysia"-Ahmad Kamal Md Isa, UNIMAP, Malaysia

Watershed Management

"Climate Change Exploration in Muda Irrigation Scheme"-Md Hazrat Ali, UTM, Malaysia

"Sediment Control of the Pump-Station Intake With Submerged Vanes"-Samad Emamgholizadeh, Iran

"Flow Behaviours In Compound Meandering Channel With Non-Vegetated And One-Line Vegetated Floodplain For Overbank Flow"-Zulhilmi Ismail, UTM, Malaysia

"Multi-Lead Water Level Forecasting Of Johor River at Rantau Panjang Station Utilizing Ann"-Muhammad @ Sa Khushren Sulaiman, UKM, Malaysia

"Daily Reservoir Inflow Forecasting Using Adaptive Neuro-Fuzzy Inference Systems"-Shahram Karimi, Googhari, Iran-Malaysia

"Visualisation of Flow At The Headland-Generated Recirculation Zone"-Tan Fu Ee, Curtin University, Sarawak

"Soil Moisture Monitoring By Using Budget Model in Changing Climate"-Sayed Masood Mostafavi Darani, Iran

"Virtual Water A Solution to Water Crisis In Arid And Semi-Arid Countries"-Ali Reza Nejad Shamloo, Iran

"Regional Hydrological Drought Prediction Using Cellular Automata"-Shahab Araghinejad, Iran

"Swat Application For Hydrologic and Water Quality Modeling For Suspended Sediments: A Case Study of Sungai Langat's Catchment In Selangor"-Khairul Rahmah Ayub, USM, Malaysia

"Analysis Urban Drainage Using Swmm5: Case Study of Sungai Kayu Ara, Damansara, Selangor"-Mahyuni A. Wahab, UNIMAP, Malaysia

"Drought Disaster Management with Use of Watershed Management Science"-Mehdi Shafaghati, Iran

"Speciation of Mercury in Environmental Water Sediment and Biological Samples with Seasonal Change in Muar River Estuary"-M.M. Rahman, IUM, Malaysia

"Assessment of Water Availability from Lenggong Catchment"-Mohd Nordin Adlan, UTP, Malaysia

"Comparison of Wave Hindcasting of Linear Wave Theory And Swan Modelling At Batu Pahat River Estuary"-Norazlina Bateni-Noor Baharim Hashim, UNIMAS, Malaysia

"Impact of Climate Change and Its Variability on the Rainfall Pattern in Sarawak River Basin"-Charles Bong Hin Joo, UNIMAS, Malaysia

"Laboratory Study on Effects of Vegetations on the Open Channel Hydraulic Roughness"-Noor Aliza Ahmad, UTHM, Malaysia.

"Assessment of Water Availability from Lenggong Catchments" - Mohd Nordin Adlan, UTP, Malaysia

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