

**PRE WORKSHOP** (1st March 2010)

Transboundary Water Management Issues and Applications of River Water Quality Modelling In Integrated Catchment Management

**WORKSHOP OBJECTIVES**

- To address the challenges of transboundary water management, which refers to water management processes that straddle at least one political jurisdiction, either within a nation (between states) or across an international boundary.
- To address integrated catchment management from a water quality perspective, the various states of Malaysian rivers as well as river water quality modeling applications that have tremendously assisted in the management proceedings.
- To introduce participants to the usage of model as a tool, in preventing water quality degradation, as a result of proposed development, including those related to river rehabilitation initiatives.



**MR. ZAKI ZAINUDIN**  
Universiti Teknologi MARA, Malaysia  
zakizainudin@gmail.com

Zaki Zainudin is a member of the IWA W&RBM Specialist Group and is a Chartered Environmentalist (CEnv) with the Society for the Environment (SocEnv, UK). Zaki is a renowned environmental consultant with experience and expertise in the area of water quality assessment and modeling, having led and played key roles in over forty (40) environmental projects, including monitoring exercises, Environmental Impact Assessments (EIAs) and special stand-alone environmental studies nationwide, for both corporate and government sectors. He has conducted various workshops and talks on water quality and modeling at both local and international venues. He is often a source of reference for various organizations on surface water quality management, such as being an expert panelist for various government organizations. He is currently a lecturer at the Faculty of Chemical Engineering, Universiti Teknologi MARA.

Topics:

- (a) **Watershed and River Basin Management Specialist Group, IWA White Paper on "Transboundary Water Management Issues"**  
Perspective of the main issues associated with transboundary water management and reflections on emerging challenges for the future.
- (b) **River Water Quality Modeling in Integrated Catchment Management**  
Introduction to Water Quality Modeling, types of models, theory, data requirements, applications and limitations
- (c) **River Water Quality Modeling in Integrated Catchment Management: Applications and Experiences in Malaysia**  
Applications of River Water Quality Modeling in river rehabilitation and impact management initiatives



**PROF. DR. ZULKIFLI YUSOP**  
Universiti Teknologi Malaysia  
zulyusop@utm.my

Zulkifli Yusop is a Professor at the Department of Hydraulics and Hydrology, Faculty of Civil Engineering, Universiti Teknologi Malaysia (UTM). He served Forest Research Institute Malaysia for 14 years as a Research Officer before joining UTM in 1999. His research interests are mainly on environmental hydrology, Rainfall-Runoff processes, Non-Point Source pollution control, and catchment management. He has published more than 200 technical articles. His current positions, some are Executive Director of Water Research Alliance, UTM; Associate Editor of Water Science and Technology (IWA Publication); Board of Director of Selangor Water Board Management (LUAS); Chairman of the Education, Training and Public Information Committee of the Malaysian International Hydrology Program; Exco Member of Malaysian International Hydrology Program; and Council Member of Malaysian Water Association.

Topic:

- (a) **Catchment Wide Approach for Controlling Water Pollution**

**POST WORKSHOP** (4th March 2010)

Automation of Water and Wastewater System



**GUSTAF OLSSON**  
Department of Industrial Electrical Engineering and Automation (IEA), Lund University, Lund, Sweden

Gustaf Olsson is a Professor emeritus in Industrial Automation, Lund University, Lund, since 2006. Prof. Olsson is a Part time professor in Electrical Power Systems at the Chalmers University of Technology, Göteborg, Sweden. He has devoted his research to control and automation in water, wastewater, power and process industries. Prof. Olsson has guided 23 PhDs and a few hundred MSc students to their exams. The Lund University engineering students have elected him as the "teacher of the year". He has spent extended periods doing research at universities and companies in the USA, Australia, Japan, Malaysia, and China and has been invited to lecture in 16 countries outside Sweden. He has authored eight books - published in English, Russian, German and Chinese - and more than 130 scientific publications. Since 2005 he is the editor-in-chief of Water Science and Technology and is also member of the IWA Board of Directors.

Gustaf Olsson is a key person to deliver such lectures on automation of water and wastewater systems. He experienced multi-tasking of electrical, environment and bioprocess, which typically make him further advance in discussing any problems and failure occurs in treatment plant. He always challenges practitioner and operator to relook into the fundamental aspects of managing the instruments. As plants are also becoming increasingly complex with necessitate automation and control, the workshop is important and timely for process engineer and researcher to focus on the leading-edge technology. The workshop also offers for beginner to learn more on the design and operation with a latest technological aspect. In addition, the practical justification on technical and economical aspects could be appropriate to the operators. Several full-scale experiences of how instrumentation, control and automation (ICA) has improved economy, ease of operation and robustness of plant operation will be also covered in the one day seminar.

Topics:

- (a) Basic Control Concepts in Instrumentation, Control and Automation (ICA)
- (b) What needs to be measured in a wastewater treatment plant
- (c) Plant operating experiences from Malaysia
- (d) Measurement handling and monitoring
- (e) Dynamical systems and mathematical models (Part I and II)
- (f) Wastewater Treatment System in Malaysia
- (g) Control of Activated Sludge Plants: What can be manipulated
- (h) Recent Advances in R&D in Malaysia
- (i) Outlook: Recent Developments in Wastewater Treatment Operation and Control

**REGISTRATION FORM | IWAYWP 2010**

To confirm your registration, please complete this form including payment.

Name : \_\_\_\_\_  
 NRIC : \_\_\_\_\_  
 Title : \_\_\_\_\_  
 Organization : \_\_\_\_\_  
 Address : \_\_\_\_\_  
 Telephone : \_\_\_\_\_ Mobile : \_\_\_\_\_  
 Fax : \_\_\_\_\_ E-mail : \_\_\_\_\_

**CONFIRMATION OF ATTENDANCE**

- i. Please tick (/) where applicable
- Attending Conference  
 Oral Presentation  
 Poster Presentation
- ii. Workshop
- Pre Workshop  
 Post Workshop

Company Details (for issuance of invoice):

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*This registration is invalid without a signature. Payment must be made no later than 7 working days before the conference. An undertaking letter may be accepted in cases where payment is delayed. Participants who have registered but do not attend will be invoiced accordingly.*

Authorised Signature : \_\_\_\_\_ Date : \_\_\_\_\_  
 Name : \_\_\_\_\_ Designation : \_\_\_\_\_  
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**MODE OF PAYMENT**

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*All crossed cheque/ bank draft should be made payable to **SPACE, UNIVERSITI TEKNOLOGI MALAYSIA**  
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C. Telegraphic Transfer

Transaction Date : \_\_\_\_\_ Reference Number : \_\_\_\_\_

D. Local Order (LO/PO)

Reference Number : \_\_\_\_\_

**REGISTRATION FEE**

Please tick (/) where applicable

(The conference fee includes conference materials, lunch, refreshments and certificate of attendance)

**Professional**

IWA Member

- Early Bird **USD 275** **RM 990**
- Standard **USD 300** per pax **RM 1080**

IWA Non-Member

- Early Bird **USD 325** **RM 1170**
- Standard **USD 350** per pax **RM 1260**

**Student**

- Local  Standard **RM 600** per pax
- International  Standard **USD 200** per pax

**Pre & Post Workshop Fee**

- Workshop Fees (for conference participant)  Standard **RM 400** per pax
- Workshop Only  Standard **RM 500** per pax

**DISCLAIMER**

UTMSPACE reserves the right to make any amendments and/or to cancel the event if warranted by circumstances beyond its control. Terms and conditions apply.

**CANCELLATION POLICY**

Cancellations received in writing 30 days prior to the conference are eligible for a refund, subject to 15% cancellation fees. Cancellations received less than 30 days from the date of the conference are not eligible for refund. Substitute attendees are however welcome.

Please note that the speakers and topics are confirmed at the time of printing. However, circumstances beyond the control of the organizers may necessitate substitutions or cancellations of speakers and/or topics. As such Universiti Teknologi Malaysia reserves the rights to substitute or cancel the advertised speakers and/or topics.

**FOR FURTHER INFORMATION, PLEASE CONTACT:**

**IWAYWP2010 SECRETARIAT:**

Conference/Seminar Section, Professional Development Unit, School of Professional and Continuing Education (UTMSPACE)

Universiti Teknologi Malaysia

40-50, Jalan Kebudayaan 1, Taman Universiti

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**Workshop Contact :**

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CALL FOR PARTICIPANTS

**THE 1<sup>st</sup> IWA MALAYSIA  
YOUNG WATER PROFESSIONALS CONFERENCE**



**Towards Sustainable Water in Developing Countries**

**DATE**  
**2 - 4 March 2010**

**VENUE**  
**Best Western Premier Seri Pacific Hotel**  
**Kuala Lumpur**

**CPD Points**  
BEM 12 hours  
DOE 15 hours

**Organizers :** UTM (Universiti Teknologi Malaysia) Institute of Environmental & Water Resource Management (IPASA)

**Collaborators :** KETTHA (KEMENTERIAN TENAGA, TEKNOLOGI HIJAU DAN AIR), Universiti Malaysia PAHANG, SPAN (Suruhanjaya Perairan dan Air Negara)

**Sponsors :** Aquadelux Sdn Bhd (Gold Sponsor), MOSTI, Suez Environment, CH2MHILL





## INTRODUCTION

The proposed 3-day conference is an initiative to give a perspective on environmental management and technologies, including water resources, pollution control, water quality, and wastewater treatment. It is aimed at establishing scientific link at the international level, in order to share and disseminate valuable information on activities in water issues and water related technologies especially in developing countries as well as to discuss methodologies, directions, regulations and other water scientific issues. It is targeted to institutions, practitioners and research groups with expertise on water environmental R&D, sustainable management and advanced technologies. The conference offers opportunities to young researchers and professionals to share ideas related to water issues and technologies in developing countries.

## CONFERENCE THEMES

The issues to be addressed in the Conference should be in the following areas:

- Sanitation
- Water Supply
- Water Resource
- Public Health
- Drinking Water
- Integrated Catchment Management
- Water and Wastewater Treatment
- Public Awareness
- Capacity Building
- Water Reuse and Reclamation
- Point and Non-Point Source of Pollution
- Water Policies
- Water and Energy
- Sustainable Technologies
- Impact of Climate Change
- Advanced Analytical Techniques
- Water Economics

## TECHNICAL TOUR

IWK's Centralise Plant in KL, BUNUS STP caters for 377,000 PE. It comprised of Advanced Activated Sludge Treatment with nutrient removal for the raw sewage. It also has SCADA system for on line monitoring and has biosolids treatment process stream i.e. thickener, anaerobic digestion and screw press dewatering.

## CONFERENCE PROCEEDINGS AND PUBLICATIONS

The proceedings will be available to all delegates at the registration desk. Papers will be reviewed for publication in the *Water, Science and Technology* or *Malaysian Journal of Civil Engineering*.

## KEYNOTE SPEAKER



**PROF. DATO' DR. IR. ZAINI UJANG**  
Universiti Teknologi Malaysia (UTM), Malaysia

Zaini Ujang is a Professor of Environmental Engineering and Vice-Chancellor of the Universiti Teknologi Malaysia. He is the first recipient of the most prestigious Merdeka Award 2009 for Outstanding Scholastic Achievement. He is currently a Fellow, Academy of Science Malaysia and Senior Advisor to the Prince Khalid bin Sultan Chair on Water Research, King Saud University, Saudi Arabia since January 2009. His most recent appointment is as Chairman, Environmental Quality Council, Malaysia from 2009-2012, the national agency regulating environmental control and management, and policy initiatives. His vast expertise and wide experience qualify him to be appointed as Member, National Commission on Water Services (SPAN) since its establishment in February 2007, to regulate water services industry in Malaysia. He has registered more than 20 intellectual properties right jointly owned with his co-workers and former students, and has commercialized six research products. He also has published more than 200 technical papers, 22 books, chapters, monographs and technical reports on environmental engineering, and more than 1000 articles on Environment and Higher Education.



**PROF. THOMAS CURTIS**  
University of Newcastle Upon Tyne, United Kingdom

Tom Curtis has served as a Professor of Environmental Engineering since 2004. He has published more than 200 peer-reviewed professional papers, chapter, monograph and technical reports in the subject areas of molecular approach, microbiology, biological and microbial fuel cell. Prof. Curtis received the Society for General Microbiology's Shell Price for Microbial Ecology. He was appointed as Member of International Water Association (associate editor, Water Research) and Editorial Board Applied Applied and Environmental Microbiology. He also Member of the Keppel Corporation Technology Advisory Panel (KTAP) and the Premier Waste Advisory Panel.



**PROF. GUSTAF OLSSÖN**  
Editor in Chief *Water Science and Technology* Lund University, Sweden

Gustaf Olsson is a Professor emeritus in Industrial Automation, Lund University, Lund, since 2006. Prof. Olsson as a Part time professor in Electrical Power Systems at the Chalmers University of Technology, Göteborg, Sweden. He has devoted his research to control and automation in water, wastewater, power and process industries. Gustaf has guided 23 PhDs and a few hundred MSc students to their exams. The Lund University engineering students have elected him as the "teacher of the year". He has spent extended periods doing research at universities and companies in the USA, Australia, Japan, Malaysia, and China and has been invited to lecture in 16 countries outside Sweden. He has authored eight books - published in English, Russian, German and Chinese - and more than 130 scientific publications. Since 2005 he is the editor-in-chief of *Water Science and Technology* and is also member of the IWA Board of Directors.



**PROF. DAVID C. STUCKEY**  
Imperial College London, United Kingdom

David Stuckey is currently a Professor in Biochemical Engineering in the Department of Chemical Engineering at Imperial College London. He obtained his Bachelors degree in Chemical Engineering, and a Masters degree in Biochemical Engineering from the University of Melbourne, Australia. He moved to the U.S. where he continued his Ph.D in Environmental Engineering at Stanford in California with Prof Perry McCarty. Prof Stuckey has worked in Australia, the U.S., Norway (at SINTEF/NTN in Trondheim), Switzerland (ETH/EAWAG in Zurich), and the U.K. University of Sussex. He has published more than 100 technical papers. In recent years, he focused on Anaerobic Wastewater Treatment and Downstream Separations in Biotechnology.



**DR. KARIN JÖNSSON**  
Lund University, Sweden

Karin Jönsson is an Associate Professor in Chemical Engineering in the Department of Chemical Engineering at Lund University, Sweden. She obtained her Bachelors degree in Water and Environmental Engineering, and a Masters degree in Civil Engineering from the Lund Institute of Technology, Sweden. She received award from the Swedish Water and Wastewater (SWWA) and The Swedish Society of Civil and Structural Engineers (SVR). In 2004, she also received award for the Excellent teaching, Lund University's award. She was appointed as Member of International Water Association (IWA), Föreningen Vatten (The Water Association in Sweden) and The Swedish Bio-P-network-managing committee. She was invited as guest professor at Technical University of Malaysia, Malaysia and Trinity College, University of Dublin, Republic of Ireland.

## TENTATIVE PROGRAMME FOR CONFERENCE

1 <sup>st</sup> MARCH 2010			
08.30am-05.30pm	Pre-workshop on <b>Transboundary Water Management Issues &amp; Applications Of River Water Quality Modeling In Integrated Catchment Management</b>		
08.00pm-10.00pm	Pre-Registration		
DAY-1 : 2 <sup>nd</sup> MARCH 2010			
08.00am-09.00am	Registration		
09.00am-09.15am	Welcoming Address by I <sup>st</sup> IAWWYP Organizing Chairman		
09.15am-10.15am	<b>KEYNOTE ADDRESS 1</b>		
10.15am-10.45am	Tea break		
10.45 am-11.45am	<b>KEYNOTE ADDRESS 2</b>		
11.45am-01.00pm	Parallel Session 1		
11.45am-12.00pm	<b>SESSION 1A</b> (Venue: Pacific Ballroom A - level 2 ) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 1B</b> (Venue: Pacific Ballroom C - level 2) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 1C</b> (Venue: Bunga Room - level 3) <b>Theme: Water Utilization</b>
12.00pm-12.15pm	Paper ID 208 Formation of aerobic granular sludge with palm oil mill effluent (POME) <b>N. Abdullah</b>	Paper ID 155 Chemical Characterization and Bio-toxicity Testing of Leachate from Municipal Solid Waste Landfill with Different Degree of Treatment <b>S. Theepharaksapan</b>	Paper ID 122 Integrated System to Water Loss Minimization in The Cisdane-Serpong 3000 L/S Drinking Water Treatment Plant <b>L. Khosmatika</b>
12.15pm-12.30pm	Paper ID 105 Mineralization and decoloration of textile wastewater by TiO <sub>2</sub> nanoparticles <b>Marjan Ghanbarian</b>	Paper ID 161 Removal of Phenol Using Immobilized Bacterial Consortium on Wood Husk <b>L. J. Kuang</b>	Paper ID 132 Overcoming Pressure Deficiency in Sungai Rengit Water Distribution System <b>N. F. M. Daud</b>
12.30pm-12.45pm	Paper ID 106 Comparison of different advanced oxidation processes for antibiotics degradation <b>E. S. Elmolla</b>	Paper ID 162 Animal Farms Wastewater Management to Reduce Rural Areas Underground Water Pollution <b>A. H. Heidari</b>	Paper ID 171 Reduction of Peak Water Consumption in urban Water Supply Networks <b>M. K. Heidari</b>
12.45pm-01.00pm	Paper ID 107 Removal of Humic Acid By Ultrafiltration With Polysulfone/Titanium Dioxide Using Submerged Membrane System <b>N. A. A. Hamid</b>	Paper ID 167 Occurrence of Sludge Granulation in an Enhanced Biological Phosphorus Removal Sequencing Batch Reactor <b>O. Y. Hui</b>	174 Investigation of the leakage Performance Indexes in Municipal Water Distributing Network (a Case Study Mahabad City, Iran) <b>H. Abghari</b>
01.00pm-01.15pm	Paper ID 108 Improvement Performance of Secondary Clarifiers In Iraq <b>A. H. Ghawi</b>	Paper ID 169 The Effect of Salt Additives on Polyethersulfone (PES) Ultrafiltration Membranes Prepared by Novel Microwave Irradiation Technique <b>A. Idris</b>	Paper ID 181 Turning Around Water Service Levels In Selangor, Kuala Lumpur & Putrajaya by <b>SYABAS</b>
01.15pm-02.15pm	<b>Lunch</b>		
02.15pm-03.00pm	Opening Ceremony Venue: Pacific Ballroom		
03.00pm-04.00pm	Parallel Session 2		
03.00pm-03.15pm	<b>SESSION 2A</b> (Venue: Pacific Ballroom A - level 2) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 2B</b> (Venue: Pacific Ballroom C - level 2) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 2C</b> (Venue: Bunga Room - level 3) <b>Theme: Water Utilization</b>
03.00pm-03.15pm	Paper ID 109 Sorption of Arsenic from Water Using Layered Double Hydroxide Microspheres Prepared by Spray Drying Process <b>K. H. Goh</b>	Paper ID 173 Fabrication of a Solar Enhanced Disinfection System <b>D. Lim</b>	Paper ID Paper ID 182 Source-To-Top Management and Monitoring of Water Quality <b>SYABAS</b>
03.15pm-03.30pm	Paper ID 110 Bi-functional N-TiO <sub>2</sub> /AC Composite for the Photodegradation of Bisphenol-A in Water <b>Y. P. Seng</b>	Paper ID 175 Removal of Ammonium Nitrogen from Latex Processing Wastewater by Struvite Precipitation <b>S. Jian</b>	Paper ID Paper ID 183 Study on Effect of Treated Water on Household Water Filters <b>SYABAS</b>
03.30pm-03.45pm	Paper ID 111 Degradation of 4-Chlorophenol by Ultraviolet Irradiation/Sodium Hypochlorite and Ultraviolet Irradiation/Ozonation <b>J. Fu</b>	Paper ID 176 Photosynthetic Aerobic Granular Sludge: Optimization of Photosynthetic Condition for Facultative Photoautotrophic Bacterial Growth in a Sequencing Batch Reactor <b>F. A. Dahalan</b>	Paper ID Paper ID 184 Sustainable Technologies - Reducing Distribution System Water Losses <b>SYABAS</b>
03.45pm-04.00pm	Paper ID 112 The application of dynamic modelling as a predictive tool for the full scale potential of combined in-line hydrolysis with predenitrification <b>T. Hey</b>	Paper ID 177 Facultative Granular Sludge as Compact Treatment System for Textile Dyeing Wastewater Treatment <b>K. Muda</b>	Paper ID Paper ID 185 Public Awareness in Water Supply <b>SYABAS</b>
04.00pm-04.15pm	Refreshments		
04.15pm-05.15pm	Parallel Session 3		
04.15pm-04.30pm	<b>SESSION 3A</b> (Venue: Pacific Ballroom A - level 2 ) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 3B</b> (Venue: Pacific Ballroom C - level 2) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 3C</b> (Venue: Bunga Room - level 3 ) <b>Theme: Water Utilization</b>
04.15pm-04.30pm	Paper ID 113 Removal of Disperse Red 343 from Aqueous Solution by Coconut Coir Activated Carbon <b>T. Khan</b>	Paper ID 178 Optimisation of Coagulation Process in Water Treatment Plant Using One-Factor-at-A-Time (OFAT) and Response Surface Methodology (RSM) for Tests <b>M. Z. Abideen</b>	Paper ID 193 Rehabilitation of Tambang Water Distribution System, Segamat, Johor <b>R. Amat</b>
04.30pm-04.45pm	Paper ID 117 Ozone Decomposition Model: Simulation of Complex Macromolecules Using Model Promoter and Inhibitors <b>Y. E. Ling</b>	Paper ID 179 Process Development to Produce Polyhydroxyalkanoates (PHAs) from Fermented Palm Oil Mill Effluent Using Anaerobic-Aerobic Sequence Batch Reactor <b>Salmiati</b>	Paper ID 103 Automated Targeting for Total Water Network with Fixed Removal Ratio Type Treatment System <b>D. K. S. Ng</b>
04.45pm-05.00pm	Paper ID 118 Effect of UV/H <sub>2</sub> O <sub>2</sub> Advanced Oxidation on the Aerobic Biodegradability of Monoethanolamine Solution <b>I. F. M. Ariff</b>	Paper ID 189 Optimization of Separation Process for Arsenic Removal in Low Pressure Reverse Osmosis Membrane (LPROM) using Central Composite Rotatable Design (CCRD). <b>M. Hamdzah</b>	Paper ID 104 Mineralization of textile dye RO16 and toxicity bioassay using <i>Daphnia Magna</i> <b>M. Ghanbariana</b>
05.00pm-05.15pm	Paper ID 121 The Operation and Maintenance of Pulsator Technology at 3000 l/s Cisdane Drinking Water Treatment Plant <b>A. C. Rumanby</b>	Paper ID 190 Application of Bioparticle in Constructed Subsurface Wetlands <b>S. H. C. Rani</b>	Paper ID 120 Recharge of wastewater using Soil Aquifer Treatment and Multicriteria Evaluation Techniques <b>K. Deepa</b>
DAY-2 : 3 <sup>rd</sup> MARCH 2010			
09.00am-10.00am	<b>KEYNOTE ADDRESS 3</b>		
10.00am-10.30am	Refreshments		
10.30am-11.45am	Parallel Session 4		
10.30am-10.45am	<b>SESSION 4A</b> (Venue: Pacific Ballroom A - level 2 ) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 4B</b> (Venue: Pacific Ballroom C - level 2 ) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 4C</b> (Venue: Bunga Room - level 3) <b>Theme: Water Utilization</b>
10.30am-10.45am	<b>Invited Speakers 1</b>	Paper ID 192 Optimization Of Coagulation Process Using Online Streaming Current Detector At Sg Langkat Wtp <b>S. M. Aziz</b>	Paper ID 128 Treatment of Back-side Grinding Wastewater Using Membrane System <b>C. M. Kao</b>
10.45am-11.00am		Paper ID 195 Biodegradation of Macrolide Antibiotic Tylosin in an Anaerobic Reactor <b>S. Chellapan</b>	Paper ID 156 Synthesis of Alginate-Modified Polyurethane and its Adsorption Characterization for Aluminium Ion in Water <b>Ki-Pal Kim</b>

11.00am-11.15am	Paper ID 125 Treatment of High Sulfide in Petrochemical Plant Wastewater <b>M. M. Bakir</b>	Paper ID 196 Pilot-scale Removal of Chromium from Industrial Wastewater Using the ChromeBac™ System <b>Z. A. Zakaria</b>	Paper ID 159 Corn Crop Responses to Irrigation by Municipal Wastewater in Water Limited Areas of Southern Parts of Iran <b>Altkabir Maghsoudi moud</b>
11.15am-11.30am	Paper ID 127 Decolorization of Textile Wastewater by UV/Oxidant Systems <b>C. H. Wu</b>	Paper ID 197 How to Avoid Producing False Results in Drinking Water Treatment Processes <b>S. I. Omar</b>	
11.30am-11.45am	Paper ID 130 Hydrolysis as an Effective Technique for Securing the Supply of Easily Degradable Carbon Needed for Biological Nutrient Removal Processes <b>K. Jönsson</b>	Paper ID 145 Investigation the Effect of Industrial Development on Groundwater Pollution in Arid Zone(Case Study:Yazd Province) <b>H. Z. Mahmoodabady</b>	
11.45am-12.00pm	BREAK		
12.00pm-1.00pm	Parallel Session 5		
12.00pm-12.15pm	<b>SESSION 5A</b> (Venue: Pacific Ballroom C - level 2) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 5B</b> (Venue: Pacific Ballroom C - level 2 ) <b>Theme: Water Environment</b>	<b>SESSION 5C</b> (Venue: Bunga Room - level 3) <b>Theme:Water Environment</b>
12.00pm-12.15pm	Paper ID 133 Use Of Organic Materials Wetland To Improving The Capacity Sulfate Reduction Bacteria (SRB) Of Reduce Sulfate And Precipitation Metal In Acid Mine Water (AMW) <b>Fahruddin</b>	Paper ID 136 Comparison of Multilayer Perceptron (MLP) and Particle Swarm Optimization Feedforward (PSO) Neural Networks for Modeling Runoff of Bedup Basin, Malaysia <b>K. K. Kuok</b>	Paper ID 123 The zooplankton of the source of river Hrazdan <b>A. Hayrapetyan</b>
12.15pm-12.30pm	Paper ID 134 Optimum Aggregate Filtration for Treatment of Construction Site Runoff <b>N. W. Yi</b>	Paper ID 137 Proficiency Testing Program <b>F. F. Sa'adon</b>	Paper ID 124 Clitoides as Water Quality Bioindicator Species of Lake Sevan and Its Tributaries <b>Z. Mkrtrchyan</b>
12.30pm-12.45pm	Paper ID 135 Refinery Produced Wastewater Treatment Using Submerged Hollow Fiber Membrane <b>A. F. Ismail</b>	Paper ID 144 Novel membership function in process of building pattern trees <b>A. Naumo</b>	Paper ID 131 E4DCS: A Tool For Validation Of The European Educational Offer In Environmental And Water Resources Engineering <b>G. A. Capodaglio</b>
12.45pm-01.00pm	Paper ID 138 Multistage Filtration System For Water Supply Treatment <b>R. Seswoya</b>	Paper ID 157 Water Quality Study of Sungai Melaka Using Remote Sensing and GIS <b>R. A. Aziz</b>	Paper ID 158 Evaluation of Environmental Flows in a River Reach <b>S. S. Karim</b>
01.00pm-02.00pm	<b>Lunch</b>		
02.00pm-03.15pm	Parallel Session 6		
02.00pm-02.15pm	<b>SESSION 6A</b> (Venue: Pacific Ballroom C - level 2) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 6B</b> (Venue: Pacific Ballroom C - level 2) <b>Theme: Water Environment</b>	<b>SESSION 6C</b> (Venue: Bunga Room - level 3 ) <b>Theme: Water Environment</b>
02.00pm-02.15pm	<b>Invited Speakers 2</b>	Paper ID 165 Optimization of Rainfall Observation Network in Klang Valley <b>G. Y. Cai</b>	Paper ID 163 Application of Multi-objective Particle Swarm Algorithm for Optimal Water Allocation from Multi-Purpose Reservoirs A Case Study <b>M. Karamouz</b>
02.15pm-02.30pm		Paper ID 180 Melana And Batu Pahat Watershed Ranking Using Fuzzy Composite Programming <b>S. Shamsudin</b>	Paper ID 115 Nitrogen and Phosphorus Entry into Lake Sevan from Point and Non - Point Sources <b>M. Irvanay</b>
02.30pm-02.45pm	Paper ID 139 Design and Construction of a Water Conservation System <b>O. A. Nnene</b>	Paper ID 186 A Study On Rainfall Disaggregation For Sg Johor, Sg. Damansara And Kelantan <b>N. A. Nubahari</b>	Paper ID 129 Remediation of Petroleum-Hydrocarbon Contaminated Groundwater Using Slow Oxidant-release Barrier System <b>C.M. Kao</b>
02.45pm-03.00pm	Paper ID 141 The Effect of Lithium Fluoride on Polyethersulfone Ultrafiltration Membranes <b>I. Ahmed</b>	Paper ID 187 Stochastic Disaggregation Methods For Generating Fine Time Scale Rainfall Data: Recent Application Of BLRP & NSRP With The Adjusting Procedures <b>Harisaweni</b>	Paper ID 143 Event Mean Concentration (EMC) of Stormwater Runoff from High Density Commercial Area in Malaysia <b>M. F. Chow</b>
03.00pm-03.15pm	Paper ID 146 The Use of Polyethersulfone Lithium bromide/ Dimethylformamide hollow fiber membranes for textile wastewater treatment <b>A. Idris</b>	Paper ID 188 Fitting Optimum Order Of Markov Chain Models For Hourly Rainfall For Johor, Damansara And Kelantan <b>T. W. Lun</b>	Paper ID 166 Bioremediation of Thiobencarb in Contaminated Soil via Co-metabolism of Methanotrophs <b>S. Muenmee</b>
03.15pm-03.30pm	Paper ID 147 Magnetic Nanoparticle Beads and Characterization for Zinc Removal <b>A. Idris</b>	Paper ID 191 Evaluating Floodplain Management Alternatives Using Multi Criteria Decision Making (Mcdm) Approach <b>S. Shamsudin</b>	Paper ID 126 Dying Indus Deltaic Region: Overview of the Impacts of Past Water Development Schemes and Future Prospects in Changing Climate <b>A. Nasir</b>
03.30pm-03.45pm	Paper ID 148 Removal of Mercury (II) from Aqueous Solution by Adsorption Using Lignocellulosic Coconut Waste <b>K. Johari</b>	Paper ID 140 Prediction Of Dam Breach Activity And Establishment Of Inundation Maps Under PMF Failure Scenario Via Hydrodynamic Modelling: Case Study Of Kenyir Hydroelectric Scheme, Malaysia <b>A. Z. A. Razad</b>	
03.45pm-04.00pm	Refreshments		
04.00pm-05.15pm	Parallel Session 7		
04.00pm-04.15pm	<b>SESSION 7A</b> (Venue: Pacific Ballroom A - level 2) <b>Theme: Water And Wastewater Treatment</b>	<b>SESSION 7B</b> (Venue: Pacific Ballroom C - level 2) <b>Theme: Water Environment</b>	<b>SESSION 7C</b> (Venue: Bunga Room - level 3) <b>Theme: Water Environment</b>
04.00pm-04.15pm	Paper ID 149 The Used of Coconut Husk (Fiber and Pitch) as a Biosorbent for Silver Ion Recovery from Photography Waste <b>N. Saman</b>	Paper ID 198 A Generic Approach For Simultaneous Targeting And Design Of Minimum Water Utilisation Networks <b>S. R. W. Alwi</b>	Paper ID 164 Climate Change Impacts on Crop Water Requirements in the Rafsanjan Plain of Iran <b>M. Karamouz</b>
04.15pm-04.30pm	Paper ID 150 Biodegradation of Phenolic Environmental Pollutants in Organic Media by Free and Cell-Gel-Locase <b>N. A. Mohidem</b>	Paper ID 114 Performance Improvement of Artificial Neural Network (ANN) Based Model for Multi-Lead Water Level Forecasting <b>Muhammad @ S. A. K. Sulaiman</b>	Paper ID 152 Water Conservation: A Source for Potable Water <b>G. N. Rao</b>
04.30pm-04.45pm	Paper ID 116 The Potential Application of Lignocellulosic Wastes for Treating Produced Water from Oil and Natural Gas Industrie <b>S. S. Tien</b>	Paper ID 116 Evaluating Floodplain Management Alternatives Using Multi Criteria Decision Making Methods <b>M. A. bin Alias</b>	Paper ID 168 Water Demand Management Strategies Experiences in Developed and Developing Countries <b>Z. Yusop</b>
04.45pm-05.00pm	Paper ID 154 Functionalised Nanoporous Silica As Adsorbent For Heavy Metals <b>W. Y. Meng</b>	Paper ID 119 An Augmented Wavelet - Neuro-Fuzzy Module for Enhancing Water Quality Prediction <b>A. A. Najah</b>	
05.00pm-05.15pm			
05.15pm-05.45pm	Closing Ceremony Venue : Pacific Ballroom		
DAY-3 : 4 <sup>th</sup> MARCH 2010			
09.00am-05.00pm	Post Workshop on <b>AUTOMATION OF WATER AND WASTEWATER SYSTEMS</b> Technical Tour		

### Note :

Time and paper presentation is subject to change. The actual programme will be published in the website one week before the conference