

# WATER CONVENTION 2011 PROGRAMME

## 4 July 2011 (Monday)

Time (hrs)	Event	Venue
0900 – 1200	<b>Water Convention “Hot Issues” Workshops (Morning Session)</b>	
	1. Implementing Innovative Water Solutions for Asia	Level 3, MR 302
	2. Managing River Basins in a Climate of Uncertainty and Rapid Urbanisation	Level 3, MR 301
1400 – 1700	<b>Water Convention “Hot Issues” Workshops (Afternoon Session)</b>	
	1. Innovating and Adapting Technologies for Drinking Water in Asia	Level 3, MR 301
	2. Pathways to the Collection, Treatment, and Reuse of Wastewater in Asia	Level 3, MR 302
	3. Safe Drinking -Water: A Key Pillar of Public Health	Level 3, MR 303
1730 – 2100	<b>Opening Ceremony &amp; Welcome Reception</b>	Level 2, Ballroom 1 – 3

## 5 July 2011 (Tuesday)

Time (hrs)	Event	Venue
0830 – 1000	<b>Water Conversation with Mr Lee Hsien Loong, Prime Minister, Singapore</b>	Level 2, Ballroom 1 to 3
	<i>*Breakfast Reception @ 8.30am</i>	
1000 – 1100	<b>Networking Tea</b> Networking Lounge, Suntec Singapore,	Level 4 and 6
1100 – 1230	<b>Water Ministers Plenary</b>	Level 2, Ballroom 1 to 3
1230 – 1400	<b>Networking Lunch</b>	Level 6, Hall 601
1400 – 1500	<b>Singapore Water Lecture 2011</b>	Level 2, Ballroom 1 to 3
1500 – 1730	<b>Water Convention Poster Presentation</b>	Level 2 Foyer

## 6 July 2011 (Wednesday)

Time (hrs)	Event	Venue
0900 – 1020	<b>Water Convention Keynote Plenary:</b>  Water Challenges and Opportunities <i>Chen Xiaohua (China)</i>  Water Security - Transitioning into the Future <i>Kala Vairavamoorthy (USA)</i>  Water Quality & Health <i>Maria Neira (Switzerland)</i>  The Future of Sustainable Water Services in a Changing Environment <i>Ursula Schaefer-Preuss (Philippines)</i>	Level 2, Theatre

6 July 2011 (Wednesday)

TIME (HRS)	SOLUTIONS FOR WATER SYSTEM EFFICIENCY & EFFECTIVENESS		PLANNING FOR SUSTAINABLE WATER SOLUTIONS MR 203, LEVEL 2	WATER QUALITY & HEALTH MR 209, LEVEL 2	GOVERNANCE & FINANCE MR 208, LEVEL 2
	SOURCE TO TAP MR 201, LEVEL 2	WASTE TO RESOURCE MR 202, LEVEL 2			
1100 – 1230	<p><b>Advanced Oxidation Systems</b> <i>Chairs: Chen Xiaohua &amp; Gilbert Galjaard</i></p> <p><b>1100 hrs:</b> Advanced Treatment for Impaired Water Supplies: When Advanced Oxidation Systems are the Best Option <i>C. Cotton, J. Collins, M. MacPhee (USA)</i></p> <p><b>1120 hrs:</b> Investigation on Synergy by Integrated UV Disinfection Systems <i>J. Hu, X.N. Chu, D.Q. Ng (Singapore)</i></p> <p><b>1135 hrs:</b> California Leads the Way for UV AOP on Drinking Water Treatment <i>C. Vekataraman, R.A. Hulsey, R. Henderson, G. Witcher, C. Suskin (USA)</i></p> <p><b>1150 hrs:</b> Microcystin Degradation and Toxicity Removal by UV/H<sub>2</sub>O<sub>2</sub> Treatment <i>A.J. Martijn, E.J.M. Penders, W. Hoogenboezem (The Netherlands)</i></p>	<p><b>Achieving Energy Self-Sufficiency I: Wastewater Treatment</b> <i>Chair: Pascal Dauthuille</i></p> <p><b>1100 hrs:</b> Heading Towards a Net-Zero Energy WWTP <i>W.J. Ng (Singapore)</i></p> <p><b>1120 hrs:</b> Towards a Sustainable Sewage Treatment Plant <i>E. Schrijber, A. Visser (The Netherlands)</i></p> <p><b>1135 hrs:</b> An Optimal Solution to Achieve the Energy Neutral Plant <i>C. Amiel, M. Cantegril (France)</i></p> <p><b>1150 hrs:</b> A Pilot Scale Study of Integrated UASB/MBR Process for Municipal Wastewater Treatment and Reclamation <i>W. Fang, F.S. Wong, Y.P. Moy, S. Lin (Singapore)</i></p>	<p><b>Climate Change Impacts on Urban Water Resources</b> <i>Chairs: Darryl Day &amp; Sun Yangbo</i></p> <p><b>1100 hrs:</b> Adaptive Management for Climate Change Impact to Water Sector in China <i>J. Xia, X. Pan (China)</i></p> <p><b>1120 hrs:</b> Challenge in Water Management During Climate Change in the Eastern Seaboard of Thailand <i>P. Asava-Aree, M. Rungvetvuthivitaya (Thailand)</i></p> <p><b>1135 hrs:</b> Innovative Methods in Downscaling for Urban Areas in Asia <i>P. Mujumdar (India)</i></p> <p><b>1150 hrs:</b> Assessing Climate Change Impacts in Urban Streams: Santa Fe, New Mexico, Case Study <i>E.J. Lopez-Calva, T. Cox, A. Navato (USA)</i></p>	<p><b>Contaminants of Emerging Concern I</b> <i>Chairs: John Fawell &amp; Bruce Gordon</i></p> <p><b>1100 hrs:</b> WHO Working Group's Report on pharmaceuticals in Drinking Water <i>E. Ohanian (USA)</i></p> <p><b>1115 hrs:</b> Integration of Social, Economic and Health Criteria into Sustainable Water Supply Solutions <i>J. Manuszak, M. MacPhee, A. Roberson (USA)</i></p> <p><b>1130 hrs:</b> Human Health Risk Assessment of Pharmaceuticals, Metabolites and Transformation Products in Surface Water and Drinking Water in The Netherlands <i>C. de Jongh, P.J.F. Kooij, J.A.van Leerdam, T.L. ter Laak (The Netherlands)</i></p> <p><b>1145 hrs:</b> Mitigation of Pharmaceuticals and Personal Care Products by Plants <i>D. Reinhold, N. Aryal (USA)</i></p> <p><b>1200 hrs:</b> Measures against Impacts of Nuclear Disaster on Drinking Water Supply Systems in Japan <i>T. Ikemoto, Y. Magara (Japan)</i></p>	<p><b>The Business of Water: Going the Corporate Way</b> <i>Chair: Anand Chiplunkar</i></p> <p><b>1100 hrs:</b> Overview of Session &amp; Setting the Scene <i>A. Chiplunkar (Philippines)</i></p> <p><b>1115 hrs:</b> Presentations on corporatization of water entities in public sector - Country case study: - <i>H. Jenny (Vietnam)</i> - <i>P. Rivera (Philippines)</i> - <i>P. Veoravanh (Laos)</i></p> <p><b>1155 hrs:</b> Moderated Panel Discussion on "Where is Asia Now and Where is it Going"</p> <p><b>1225 hrs:</b> Wrap-up &amp; Statement of Key Points</p>
1230 – 1400	<b>LUNCH @ WATER EXPO (Level 6, Hall 601)</b>				
1400 – 1530	<p><b>Clean Technologies for Water Treatment</b> <i>Chairs: Hamanth Kasan</i></p> <p><b>1400 hrs:</b> Comparing Carbon Footprint of Taste and Odor Treatment Technologies <i>S. Bindner, A. Festger, R. Peterson, C. Hoover (USA)</i></p> <p><b>1420 hrs:</b> Comparing the Sustainability of Two Surface Water Treatment Alternatives <i>M. L. Bogosh, J.P. Malley, E. Koreman (USA)</i></p> <p><b>1435 hrs:</b> Performance Evaluation SIX®-Ceramac® In Comparison With Conventional Pre-Treatment Techniques For Surface Water Treatment <i>G. Galjaard, B. Martijn, E. Koreman, M. Bogosh, J. Malley (The Netherlands)</i></p> <p><b>1450 hrs:</b> Water Treatment Plant Residuals Management Strategies for Ho Chi Minh City, Vietnam <i>R. Tsang, T.D. Phu, H.D. Pham, V.Q. Chau, R.L. Hurdle (USA)</i></p>	<p><b>Achieving Energy Self-Sufficiency II: Sludge Treatment</b> <i>Chair: Chen Xiaohua &amp; Achim Ried</i></p> <p><b>1400 hrs:</b> Strategies for Sludge Management in China <i>K. Wang (China)</i></p> <p><b>1420 hrs:</b> Thermal Processing - The Future of Biosolids Treatment? <i>R. Tsang, F. Sapienza (USA)</i></p> <p><b>1435 hrs:</b> Towards Energy Self-Sufficiency in Wastewater Treatment by Optimized Sludge Treatment <i>M. Arnold, E. Merta (Finland)</i></p> <p><b>1450 hrs:</b> Gasification as an Optimum Alternative for the Sludge Management <i>P. Dauthuille, C. Peregrina, J.-M. Audic (France)</i></p>	<p><b>Planning for an Uncertain Future</b> <i>Chairs: Abdullah A. Al-Alshaikh &amp; Dwayne Myers</i></p> <p><b>1400 hrs:</b> Sustainable Use of Water Resources through Demand Management <i>P.N. Cheung (Hong Kong)</i></p> <p><b>1420 hrs:</b> The Challenges of a Mega City Water Body in a Developing Country <i>T. Khan (Bangladesh)</i></p> <p><b>1430 hrs:</b> Singapore - A Holistic Approach to Sustainability <i>D.L. Owen (UK)</i></p> <p><b>1450 hrs:</b> Riverbank Filtration Project at Cilandak as a Solution of Limited Water Supply in South Jakarta - Indonesia <i>A. Utari, E. Mauro (Indonesia)</i></p>	<p><b>Contaminants of Emerging Concern II</b> <i>Chairs: Ong Choon Nam &amp; Robert Bos</i></p> <p><b>1400 hrs:</b> Emerging issues from implementing a Water Safety Plan Approach to management of drinking water supplies – Experience from the UK <i>C. Pollard (UK)</i></p> <p><b>1420 hrs:</b> Biotransformation of Erythromycin by Acclimated Microorganisms in Sequencing Batch Reactors (SBRs) <i>J. He, C. Fan (Singapore)</i></p> <p><b>1435 hrs:</b> Predictive Models for the Occurrence of the Viable but Non-Culturable (VBNC) Bacteria under Various Environmental Stresses <i>S.G. Goh, K. Gin, N.R. Panda (Singapore)</i></p> <p><b>1450 hrs:</b> Evaluation of Antimicrobial Resistance at Environmental Samples in Singapore <i>Z. Zhou, J.L. Ong, X. Yi (Singapore)</i></p>	<p><b>PPP: Drawing Lessons from Recent Deals</b> <i>Chair: Michael P. Barrow</i></p> <p><b>1400 hrs:</b> Overview of Session &amp; Setting the Scene <i>M. P. Barrow (Philippines)</i></p> <p><b>1415 hrs:</b> Presentations to Demonstrate PPP case studies: - <i>H. Kimura (China)</i> - <i>S. Somani (Singapore)</i> - <i>M. Muhalhal (Saudi Arabia)</i></p> <p><b>1500 hrs:</b> Questions and Answers</p> <p><b>1525 hrs:</b> Wrap-up &amp; Statement of Key Points</p>

TIME (HRS)	SOLUTIONS FOR WATER SYSTEM EFFICIENCY & EFFECTIVENESS		PLANNING FOR SUSTAINABLE WATER SOLUTIONS MR 203, LEVEL 2	WATER QUALITY & HEALTH MR 209, LEVEL 2	GOVERNANCE & FINANCE MR 208, LEVEL 2
	SOURCE TO TAP MR 201, LEVEL 2	WASTE TO RESOURCE MR 202, LEVEL 2			
1530 – 1600	<b>TEA BREAK @ WATER EXPO (Networking Lounge, Level 4 &amp; 6)</b>				
1600 – 1730	<p><b>Unconventional Membrane Systems for Water Treatment</b> <i>Chair: Avner Adin</i></p> <p><b>1600 hrs:</b> Pilot Scale Results on Pre-Screen Performance and UF Membrane Performance on Seawater in Singapore <i>S. Sreeramachandran, S.Cao (India)</i></p> <p><b>1620 hrs:</b> Small-Scale Solar Desalination Demonstration in Singapore using Novel Vacuum Multi-Effect Membrane Distillation (V-MEMD) <i>F. Bollen, G. van Gendt, G. Lange, W. Heinzl, H.C. Fook (Singapore)</i></p> <p><b>1635 hrs:</b> Online Detection of Compromised Hollow Fiber Modules using Membrane Integrity Sensor <i>A. Yeo, C.Y. Sin, S.N.C. Lin, W.B. Krantz, S.T.V. Sim (Singapore)</i></p> <p><b>1650 hrs:</b> Electroflocculation - Microfiltration Hybrid for Minimizing Filtration Energy and Fouling <i>M. Ben-Sasson, A. Adin (Israel)</i></p>	<p><b>Strategies and Tools for Developing Sustainable Wastewater Treatment Systems</b> <i>Chairs: Chen Xiaohua &amp; David Balmforth</i></p> <p><b>1600 hrs:</b> Trends in Advanced Wastewater Treatment - Transitioning from Traditional Processes to Sustainable Treatment <i>P. L. McCarty (United States)</i></p> <p><b>1620 hrs:</b> Sustainable Wastewater Treatment Contest Yields Innovative Ideas for the Future <i>C. Wallis-Lage, M. Schiltz, A. Shaw, J. Barnard, C. deBarbadillo, J. Fitzpatrick, G. Shimp (USA)</i></p> <p><b>1635 hrs:</b> Effective Sewer Mining-The Case for Decentralized Treatment <i>B. Petrik, K. Chiu, P. Wong, J.B. Slapper (USA)</i></p> <p><b>1650 hrs:</b> Carbon Footprint: Nitrous Oxide Emissions from Wastewater Treatment Plants <i>P. Dauthuille, E. Senante, C. Garel, J.-M. Audic, A. Akerman (France)</i></p>	<p><b>Building Adaptive Capacity for Global Change</b> <i>Chairs: Kala Vairavamoorthy &amp; Marshall Davert</i></p> <p><b>1600 hrs:</b> Spatial Risk-Based Assessments of Climate Change Impacts and Adaptation using the Simclim Modelling System: A Case Study of Domestic Water Harvesting Systems <i>R. Warrick, P. Kouwenhoven, Y. Li, P. Ulrich, W. Ye (Australia)</i></p> <p><b>1620 hrs:</b> China's Initiatives and Strategy in Adapting Climate Change <i>X.L. Yang (China)</i></p> <p><b>1635 hrs:</b> Flood Relief Solutions in Metropolitan Cities – The Hong Kong Experience <i>F. Kan., K.K. Chan, K.W. Mak, S.K. Ton, K.P. Ip (Hong Kong)</i></p> <p><b>1650 hrs:</b> Developing a Sustainable Solution for the Future of the Upper Canal <i>D. Cho, G. Begg, G. Mullen, D. Barnes, T. Church (Australia)</i></p>	<p><b>Water Safety Plans : Quantitative Microbial Risk Assessment</b> <i>Chair: Joan Rose</i></p> <p><b>1600 hrs:</b> QMRA Toolbox: Quantitative Microbial Risk Assessment for Application in Drinking Water Systems <i>G.J. Medema, S. R. Pettersen (The Netherlands)</i></p> <p><b>1620 hrs:</b> Global Yardstick for Microbial Water Quality: challenges and solutions <i>T.G. Aw, K. Gin, J. Rose (USA)</i></p> <p><b>1635 hrs:</b> Health Risk Assessment for Use of Urban Stormwater as a Drinking Water Supply <i>P. Dillon, D. Page, K. Hyde, T. Gardner, S. Toze, C. Devitt, M.H. Lim, H. Seah (Australia)</i></p> <p><b>1650 hrs:</b> Introducing Central Softening in Drinking Water Treatment Plants in Relation to the Water Quality Risks in the Catchment Basins and the Provision of Safe Drinking Water <i>T. Diez, W. Rogge (Belgium)</i></p>	<p><b>Project Financing: Project Readiness for Business</b> <i>Chair: Michael P. Barrow</i></p> <p><b>1600 hrs:</b> Overview of Session &amp; Setting the Scene <i>M. P. Barrow (Philippines)</i></p> <p><b>1615 hrs:</b> Moderated Panel Discussion on "What it Takes to Make Water Projects Ready for Business": - <i>M. Rathbone (Singapore)</i> - <i>S. Wilson (Australia)</i> - <i>W.S. Lim (Singapore)</i> - <i>I. McAulay (United States)</i></p> <p><b>1710 hrs:</b> Questions and Answers</p> <p><b>1725 hrs:</b> Wrap-up &amp; Statement of Key Points</p>

TIME (HRS)	SOLUTIONS FOR WATER SYSTEM EFFICIENCY & EFFECTIVENESS		PLANNING FOR SUSTAINABLE WATER SOLUTIONS MR 203, LEVEL 2	WATER QUALITY & HEALTH MR 209, LEVEL 2	GOVERNANCE & FINANCE MR 208, LEVEL 2
	SOURCE TO TAP MR 201, LEVEL 2	WASTE TO RESOURCE MR 202, LEVEL 2			
0900 – 1030	<p><b>Low Energy Desalination</b> <i>Chairs: Ahmed S. Al-Arifi &amp; Darren Sun</i></p> <p><b>0900 hrs:</b> Low-Energy Desalination Demonstration Unit Results <i>T. LeTourneau, R. Knauf, S.L. Li, M. Shaw, K.H. Ng, R. Fu (Singapore)</i></p> <p><b>0920 hrs:</b> Minimizing the Environmental Impacts of RO Desalination. From Energy to Brine Management <i>K. Glucina, S. Bertrand, G. Mercer, M.A. Sanz, J.-M. Laine (France)</i></p> <p><b>0935 hrs:</b> High Performance RO Elements and Integrated Membrane System for Desalination &amp; Water Reuse <i>T. Sasaki, M. Henmi, M. Kimura, M. Taniguchi, T. Uemura (Japan)</i></p> <p><b>0950 hrs:</b> Energy Efficient Desalination Systems to Address Urban Water Scarcity <i>R. Clemente (USA)</i></p>	<p><b>Wastewater Treatment Solutions for Developing Countries</b> <i>Chair: Ong Say Leong</i></p> <p><b>0900 hrs:</b> Experience with the Design and Operation of Sustainable Wastewater Treatment Facilities for Water Reuse in Morocco and Jordan <i>T. Young, R. Copithorn, J. Brinkley, J. Karam, O. Abu-Rayyan (USA)</i></p> <p><b>0920 hrs:</b> Operation and Maintenance of a Municipal Wastewater Treatment Plant in a Developing Country Binh Hung Wastewater Treatment Plant (WWTP) Ho Chi Minh City, Vietnam <i>R. Huntington, N. Khai (Vietnam)</i></p> <p><b>0935 hrs:</b> Used Water Polishing Using Algae Isolated from the Natural Environment <i>G. Singh, P.B. Thomas; B.P. Nadappuram (Singapore)</i></p> <p><b>0950 hrs:</b> Sustained Efficiency - A Critical Parameter In Energy Efficient Wastewater Pumping <i>S. Abelin, U.H. Arbeus (Sweden)</i></p>	<p><b>Living Laboratories in the Urban Environment</b> <i>Chairs: David Spector &amp; Tony Wong</i></p> <p><b>0900 hrs:</b> Creating a City of Gardens and Water - Singapore's Active, Beautiful, Clean Waters Programme <i>K.G. Yap, N.S. Tan, A. Koh (Singapore)</i></p> <p><b>0920 hrs:</b> Integrated Urban Systems: New Tools to Support Sustainable Water Resource Management <i>A. Cannan, X. Zhang (Singapore)</i></p> <p><b>0935 hrs:</b> Structural Analysis of Urban Water Cycle in the City of Changwon, South Korea <i>H. Lee, G. Seo (Republic of Korea)</i></p> <p><b>0950 hrs:</b> Zero Energy Building – Creating Sustainable Built Environment through Innovations <i>K.S. Ang (Singapore)</i></p>	<p><b>Water Safety Plans : Different scales</b> <i>Chairs: Francisco Arellano &amp; Marion Savill</i></p> <p><b>0900 hrs:</b> Principles and Practise of WSPs at Different Scales - An Overview <i>T. Thompson (Philippines)</i></p> <p><b>0920 hrs:</b> Water Safety Plans in Vietnam Large Urban Systems <i>N.T. Tuan (Vietnam)</i></p> <p><b>0935 hrs:</b> WSP4IP Project: Development and Implementation of Community-Based Water Safety Plans (WSP) for Two Peri-Urban Indigenous People (IP) Communities in Mindanao, Philippines <i>A.C. Sales, A.N. Tiotangco, H.R Maspiñas, S.G. Anima (Philippines)</i></p> <p><b>0950 hrs:</b> WSPs in Pacific Island States <i>S. Iddings (Fiji)</i></p> <p><b>1005 hrs:</b> Water Safety Framework in Bangladesh <i>S.G. Mahmud (Bangladesh)</i></p>	<p><b>Reforms: Walking the Talk</b> <i>Chair: Anand Chiplunkar</i></p> <p><b>0900 hrs:</b> Overview of session &amp; Setting the Scene <i>A. Chiplunkar (Philippines)</i></p> <p><b>0915 hrs:</b> Corporatization and Non Revenue Water Reduction Programme in India <i>Suresh Prabhu (India)</i></p> <p><b>0930 hrs:</b> Corporatization and Non Revenue Water Reduction Programme in Vietnam <i>H. Jenny, (Vietnam)</i></p> <p><b>0945 hrs:</b> Water Sector Reform in Romania; Experiences with a Performance driven Approach for Institutional and Organizational Change <i>E. Schrijber, A. Sannen, V. Ciomos (The Netherlands)</i></p> <p><b>1000 hrs:</b> Pricing Water for Sustainable Cost Recovery: a Study on China's Water Tariff Reform <i>H. Wu (UK)</i></p> <p><b>1025 hrs:</b> Wrap-up &amp; Statement of Key Points</p>
1030 – 1100	<b>TEA BREAK @ WATER EXPO (Networking Lounge, Level 4 &amp; 6)</b>				
1100 – 1230	<p><b>Alternative Water Sources</b> <i>Chair: Jonathan Clement</i></p> <p><b>1100 hrs:</b> Production of Custom-Made Recycled Water for Various Reuse Purposes: Lessons Learned from the 15-Year Experience of the Edward C. Little Water Recycling Facility <i>V. Lazarova, R. Kelly, G. Oelker, P. Dauthuille (France)</i></p> <p><b>1120 hrs:</b> Applications of Water Reclamation in Hong Kong SAR <i>H.H.W. Lee, F. Whyte (Hong Kong)</i></p> <p><b>1135 hrs:</b> Development of a Sustainable Potable Water Solution for Perth, Western Australia <i>P. McCafferty, M. North, P. Taylor, H. Rabiasz, P. Blair (Australia)</i></p> <p><b>1150 hrs:</b> Urban Stormwater Harvesting: A Valuable Source of Water Supply in Singapore <i>M.H. Lim, Y.H. Leong, K.N. Tiew, H. Seah (Singapore)</i></p>	<p><b>Advances in Membrane Science and Process Control</b> <i>Chair: Roger Ben Aim</i></p> <p><b>1100 hrs:</b> Fabrication of Multifunctional Nanocomposite Membrane <i>X. Song (Singapore)</i></p> <p><b>1120 hrs:</b> Membrane Bioreactor Technology: Design Trends <i>D. Thompson, J. Peeters, S. Katz (Canada)</i></p> <p><b>1135 hrs:</b> The Economics of Wastewater Reclamation Using the Latest Energy Saving RO Element Designs <i>R. Franks, C. Bartels, S. Sunano, T. Knoell (USA)</i></p> <p><b>1150 hrs:</b> Hybridization of Aquifer Recharge and Recovery (ARR): New Concepts in Multi-Barrier Treatment for Wastewater Reuse <i>G. Amy, S. Sharma, M. Yoon, S.K. Maeng, S. Sudhakaran (Saudi Arabia)</i></p>	<p><b>Water Footprint in Urban Metabolism</b> <i>Chair: Frans Schulting</i></p> <p><b>1100 hrs:</b> The Concept of Water Footprint for Water Utilities: Where is the Gap? <i>S. Tsegaye, S. Ahmed, K. Vairavamoorthy (USA)</i></p> <p><b>1120 hrs:</b> Methods and Application of Urban Ecological Planning and Management in Asia <i>Z. Yang (China)</i></p> <p><b>1135 hrs:</b> Using Information Technology (IT) for Business Water Footprint - A Concept <i>H. Hegde, A. Sondhi (India)</i></p> <p><b>1150 hrs:</b> The Water Impact Index: A New Tool for Water Footprinting <i>J.-B. Bayart, E. Aoustin (France)</i></p>	<p><b>Water Safety Plans : Quality of Sources</b> <i>Chairs: Rose Lang &amp; Joselito Riego de Dios</i></p> <p><b>1100 hrs:</b> Source Water Protection and Process Optimisation <i>D. Garman (Australia)</i></p> <p><b>1120 hrs:</b> Impact of 'NEWater' on Lake Phytoplankton Community in a Manmade Reservoir: Unexpected Benefits <i>E-W. Low, E. Clews, M.S. Tsai, P.A. Todd, Y.C. Tai-Chiam, P. Ng (Singapore)</i></p> <p><b>1135 hrs:</b> Groundwater Recharge with Treated Wastewater Effluents in Oman: Solution for Saline Water Intrusion or Contamination of Groundwater Aquifers? <i>M.S. Baawain (Oman)</i></p> <p><b>1150 hrs:</b> Developing Sanitation Options to Protect the Water Quality of the Drinking Water Source of Herat City, Afghanistan <i>N. Khawaja, H. Zohran, N. Noori (Afghanistan)</i></p>	<p><b>Credible Regulation: Are the Stakes High Enough?</b> <i>Chair: Hubert Jenny</i></p> <p><b>1100 hrs:</b> Overview of session &amp; Setting the Scene <i>H. Jenny (Philippines)</i></p> <p><b>1115 hrs:</b> Moderated Panel Discussion on "Models of Regulation: What has Worked Where and Why": - <i>Satyanarayan R. (Singapore)</i> - <i>J. J. Van Gijn (Vietnam)</i> - <i>S. Mongphachan (Laos)</i> - <i>R. Alikpala (Philippines)</i></p> <p><b>1210 hrs:</b> Questions &amp; Answers</p> <p><b>1230 hrs:</b> Wrap-up &amp; Statement of Key Points</p>

TIME (HRS)	SOLUTIONS FOR WATER SYSTEM EFFICIENCY & EFFECTIVENESS		PLANNING FOR SUSTAINABLE WATER SOLUTIONS MR 203, LEVEL 2	WATER QUALITY & HEALTH MR 209, LEVEL 2	GOVERNANCE & FINANCE MR 208, LEVEL 2
	SOURCE TO TAP MR 201, LEVEL 2	WASTE TO RESOURCE MR 202, LEVEL 2			
1230 – 1400	<b>LUNCH @ WATER EXPO (Level 6, Hall 601)</b>				
1400 – 1530	<p><b>Smart Networks</b> <i>Chair: Helge Daebel</i></p> <p><b>1400 hrs:</b> Victoria's Emerging Intelligent Water Networks <i>R. McGowan (Australia)</i></p> <p><b>1420 hrs:</b> Real-time Monitoring of the Water Distribution System in Singapore: Overview of the WaterWiSe@SG Project <i>A. Preis, M. Allen, A. Whittle, M. Iqbal, S. Srirangarajan, L. Girod, H.B. Lim (Singapore)</i></p> <p><b>1435 hrs:</b> Using a Smart Water Approach to Control a Large Urban Network with Legacy Infrastructure: TaKaDu at Thames Water <i>G. Horowitz, H. Scolnicov (Israel)</i></p> <p><b>1450 hrs:</b> Smart Water Supply Operation and Management of Tokyo <i>F. Sasaki (Japan)</i></p>	<p><b>Nutrient Recovery and Bio-Refining</b> <i>Chair: Bill Gaffi</i></p> <p><b>1400 hrs:</b> Nutrient Removal and Recovery from Nitrogen- and Phosphorus-laden Waste Streams in the Form of Struvite <i>Q. Zhao, J. Ding (China)</i></p> <p><b>1420 hrs:</b> A Novel High Rate Membrane Bio-reactor (MBR) Process for Removal and Recovery of Nutrients <i>S. Vigneswaran, M.A.H. Johir, J. Kandasamy (Australia)</i></p> <p><b>1435 hrs:</b> Advanced Control System to Treat Ammonia-Rich Effluent and Reduce N<sub>2</sub>O Emission by using an SBR Operating via Nitrite Pathway <i>J. Chauzy R. Lemaire, F. Veuillet, K. Sorensen, S. Deleris (France)</i></p> <p><b>1450 hrs:</b> Ammonium and Phosphate Recovery from Wastewater to Produce Energy in a Fuel Cell <i>P. Luimes (The Netherlands)</i></p>	<p><b>Concurrent Session A: Public Education &amp; Engagement</b> <i>Chair: Chris Hertle</i></p> <p><b>1400 hrs:</b> Investing in Water Infrastructure to Ensure Near and Long-term Clean Water Supply <i>J. Percival, T. Glover (USA)</i></p> <p><b>1420 hrs:</b> The Road to Potable Reuse -- Creating the Context to Enhance Acceptance <i>L. Macpherson (USA)</i></p> <p><b>1435 hrs:</b> Public Acceptance is Crucial for the Viability of Sewage By- Products Reuse <i>A.K.M. Din, F.A.A. Yang, M.H.A. Hamid (Malaysia)</i></p> <p><b>1450hrs:</b> A Multifaceted, Cultural Approach to Community Engagement: Case Study in Urban Water Management <i>C. Berryman, S. Burgin, T. Webb (Australia)</i></p> <hr/> <p><b>Concurrent Session B: Integrated River Basin &amp; Delta Management I</b> <i>Chair: Mohd Adnan</i></p> <p><b>1400 hrs:</b> New Thinking on the River Basin Management <i>W.T.L. Arriens (Philippines)</i></p> <p><b>1420 hrs:</b> Tidal Gravity Fresh Water Supply for Integrated Water Resources Management in Nyaungdone Island for Food Security of Yangon City Urban Population <i>A. Myint (Myanmar)</i></p> <p><b>1435 hrs:</b> Overcoming Inertia in Implementing the Integrated Water Resource Management (IWRM) <i>M. Adnan, S.M. Shahabudin (Malaysia)</i></p> <p><b>1450 hrs:</b> Bagmati River Conservation in Nepal <i>S. B. Bajracharya (Nepal)</i></p>	<p><b>Water Quality Monitoring</b> <i>Chairs: Yasumoto Magara &amp; David Garman</i></p> <p><b>1400 hrs:</b> Drinking-Water Quality Monitoring - Future Trends &amp; Needs <i>R. Bos (Switzerland)</i></p> <p><b>1420 hrs:</b> Status of Urban Drinking Water Quality in Nepal <i>B. Dangol, Y. Shrestha, M. Maharjan (Nepal)</i></p> <p><b>1435 hrs:</b> Innovative Sensor Technology for Effective Online Water Quality Monitoring <i>J.W. Verhoef, M. van Wijlen, R. Xie, W. van Delft, A.N. Puaah (Germany)</i></p> <p><b>1450 hrs:</b> Simple Low Cost Microbial Detection System <i>M. Sobsey (USA)</i></p>	
1530 – 1600	<b>TEA BREAK @ WATER EXPO (Networking Lounge, Level 4 &amp; 6)</b>				

TIME (HRS)	SOLUTIONS FOR WATER SYSTEM EFFICIENCY & EFFECTIVENESS		PLANNING FOR SUSTAINABLE WATER SOLUTIONS MR 203, LEVEL 2	WATER QUALITY & HEALTH MR 209, LEVEL 2	GOVERNANCE & FINANCE MR 208, LEVEL 2
	SOURCE TO TAP MR 201, LEVEL 2	WASTE TO RESOURCE MR 202, LEVEL 2			
1600 – 1700	<p><b>Water Loss Management</b> <i>Chair: Frank Vagi</i></p> <p><b>1600 hrs:</b> Distribution Optimization Through Pressure Control <i>R. Renner (USA)</i></p> <p><b>1620 hrs:</b> NRW Evolution - Achievement and Challenge <i>L. Martin (Indonesia)</i></p> <p><b>1635 hrs:</b> Pressure Management to Reduce Main Burst and Water Leakage in Hong Kong <i>K. Chan, R.C.H. Liu (Hong Kong)</i></p> <p><b>1650 hrs:</b> Deciphering NRW in Primary Lines - Maynilad's Way <i>R. Judieras (Philippines)</i></p>	<p><b>Industrial Wastewater Treatment Solutions</b> <i>Chair: Ng Wun Jern</i></p> <p><b>1600 hrs:</b> Advances in Wastewater Treatment in Response to Global Trends <i>J. Brown (USA)</i></p> <p><b>1620 hrs:</b> Water Recycling in the Australian Food &amp; Beverage Industry A Case Study - Reduced Environmental Footprint <i>C. Hertle, E. van Driel, M. Kinder (Australia)</i></p> <p><b>1635 hrs:</b> L'Oréal And Veolia Water Solutions &amp; Technologies: A Successful Combined Approach Towards Wastewater Reclaim <i>J.P. Filhol, B. Pouch, M. Otten (Singapore)</i></p> <p><b>1650 hrs:</b> Exploring High Efficiency Wastewater Recycle-Reuse Models for Refinery, Chemical Industry and Power Plant Wastewaters Based on Real Life Case Studies <i>D. Kachru, S. Kukade, A. Sarkar (India)</i></p>	<p><b>Concurrent Session A: Collaborative Platform - Water Information System</b> <i>Chair: Pradeep Mujumdar</i></p> <p><b>1600 hrs:</b> Using the Public to Stop Water Loss <i>R. Shah (India)</i></p> <p><b>1620 hrs:</b> Water Related Information System for the Sustainable Development of the Mekong Delta in Vietnam <i>F. Moder, C. Kuenzer, V.K. Tri (Vietnam)</i></p> <p><b>1635 hrs:</b> Collaboration Platforms in Water Management <i>P. Williams, C. Hidaka, H. Kolar (USA)</i></p> <p><b>1650 hrs:</b> Use of WIS in the Planning for Sustainable Development in Cities <i>A. Diepeveen (The Netherlands)</i></p> <hr/> <p><b>Concurrent Session B: Integrated River Basin &amp; Delta Management II</b> <i>Chair: Mochammed Amron &amp; Gary Bickford</i></p> <p><b>1600 hrs:</b> Resolving Complex Issues in Large Scale River Restoration; A Case Study - The San Joaquin River in the California Central Valley <i>W.R. Swanson (USA)</i></p> <p><b>1620 hrs:</b> Strategies from Implementing ABC Waters Projects in an Urban Watershed <i>T.W. Lee, S.C. Chan, Q. He, H.C. Chan, N.C. Tan (Singapore)</i></p> <p><b>1640 hrs:</b> Modeling and Tracking Tools for Integrated River Basin Management, from Planning to Implementation <i>L. van der Tak, T.B. Ajello, D.S. Baughman, A.S. Patwardhan (USA)</i></p>	<p><b>Advanced Analytical Systems</b> <i>Chairs: Michele Giddings &amp; Lee Hian Kee</i></p> <p><b>1600 hrs:</b> Current Trends in Chemical Contaminants: Topics on DBPs, Fire Retardants <i>S. Snyder (USA)</i></p> <p><b>1620 hrs:</b> Rapid Monitoring of Cryptosporidium Oocysts in Drinking Water <i>H. Gong, H. Liu (Singapore)</i></p> <p><b>1635 hrs:</b> Quantitative Real-Time Polymerase Chain Reaction (Q-RT-PCR) Test for Fast, Sensitive Detection of Coliforms and Enterococci Contamination in Recreational Waters <i>F. Enguehard, M. Dutang, A. Friedmann, N.C. ben Tabasssi (France)</i></p> <p><b>1650 hrs:</b> The Fate of Odorous Compounds in Potable Water Reuse Systems <i>D. Sedlak, E. Agus, L. Zhang, M. Lim (USA)</i></p>	
1900 – 2100	<b>SIWW CLOSING DINNER @ Event Plaza, Marina Bay Sands</b>				