

Water Convention 2011 Oral Presentations

Theme 1A: Solutions for Water System Efficiency & Effectiveness - Source to Tap

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Advanced Treatment For Impaired Water Supplies: When Advanced Oxidation Systems Are The Best Option

C.Cotton, J.Collins, M.MacPhee Malcolm Pirnie, Inc (United States)

Applications Of Water Reclamation In Hong Kong Sar

H.H.W Lee, F.Whyte, S.C.T Lau Arup (Hong Kong)

California Leads The Way For Uv Aop On Drinking Water Treatment

C.Vekataraman, R.A Hulseay, R.Henderson, G.Witcher, C.Suskin Black & Veatch (United States)

Comparing Carbon Footprint Of Taste And Odor Treatment Technologies

A.Festger, S.Bindner, R.Peterson, C.Hoover Trojan Technologies (United States)

Comparing The Sustainability Of Two Surface Water Treatment Alternatives

M.L Bogosh, J.P Malley, E.Koreman University of New Hampshire (United States)

Development Of A Sustainable Potable Water Solution For Perth, Western Australia

P.McCafferty, M.North, P.Taylor, H.Rabiasz, P.Blair ChemCentre (Australia)

Distribution Optimization Through Pressure Control

R.Renner Water Research Foundation (United States)

Electroflocculation - Microfiltration Hybrid For Minimizing Filtration Energy And Fouling

A.Adin, M B Sasson The Hebrew University of Jerusalem (Israel)

Energy Efficient Desalination Systems To Address Urban Water Scarcity

R.Clemente Energy Recovery, Inc. (United States)

High Performance RO Elements And Integrated Membrane System For Desalination & Water Reuse

M.Henmi, M.Kimura, M.Taniguchi, T.Sasaki, T.Uemura Toray Industries (Japan)

Investigation On Synergy By Integrated UV Disinfection Systems

X.N Chu, J.Y Hu, DQ Ng National University of Singapore (Singapore)

Low-Energy Desalination Demonstration Unit Results

T.LeTourneau, R.Knauf, L.S Liang, M.Shaw, K.H Ng, R.Fu Siemens Water Technologies (Singapore)

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Microcystin Degradation And Toxicity Removal By UV/H₂O₂ Treatment

A.J Martijn, Er J.M. Penders, W.Hoogenboezem PWN Water Supply Company North Holland (Netherlands)

Minimizing The Environmental Impacts Of RO Desalination. From Energy To Brine Management

K.Glucina, S.Bertrand, G.Mercer, M.A Sanz, J.M Laine Suez Environnement (France)

Online Detection Of Compromised Hollow Fiber Modules Using Membrane Integrity Sensor

A.Yeo, C.Y. Sin, S.N.C. Lin, W.B.Krantz, S.T.V.Sim Singapore Membrane Technology Centre (Singapore)

Performance Evaluation SIX®-Ceramac® In Comparison With Conventional Pre-Treatment Techniques For Surface Water Treatment

G.Galjaard, B.Martijn, E.Koreman, M.Bogosh, J.Malley PWN water supply company North-Holland (Netherlands)

Pilot Scale Results On Pre-Screen Performance And Uf Membrane Performance On Seawater In Singapore

S.Sreeramachandran, S.Cao Siemens Pte Ltd (India)

Pressure Management To Reduce Main Burst And Water Leakage In Hong Kong

R.CH Liu Water Supplies Department (Hong Kong)

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

V.Lazarova, R.Kelly, G.Oelker, P.Dauthuille Suez Environment (France)

Real-Time Monitoring Of The Water Distribution System In Singapore: Overview Of The Waterwise@SG Project

A.Preis, M.Allen, A.Whittle, M.Iqbal, S.Srirangarajan, L.Girod, H.B Lim MIT (Singapore)

Small-Scale Solar Desalination Demonstration In Singapore Using Novel Vacuum Multi-Effect Membrane Distillation (V-Memd)

G.V Gendt, F.Bollen, G.Lange, W.Heinzl, F.H Choo Memsys Clearwater Distribution Pte. Ltd. (Singapore)

Urban Stormwater Harvesting: A Valuable Source Of Water Supply In Singapore

M.H Lim, L.Y Hou, T.K Nyau, H.Seah Public Utilities Board Singapore (Singapore)

Using A Smart Water Approach To Control A Large Urban Network With Legacy Infrastructure: Takadu At Thames Water

G.Horowitz, H.Scolnicov TaKaDu (Israel)

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Victoria's Emerging Intelligent Water Networks

R. McGowan Goulburn Valley Water (Australia)

Water Treatment Plant Residuals Management Strategies For Ho Chi Minh City, Vietnam

K.W R Tsang, T.D Phu, H.D Pham, V.Q Chau, R.L Hurdle CDM (United States)

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Theme 1B: Solutions for Water System Efficiency & Effectiveness - Waste to Resource

A Novel High Rate Membrane Bio-Reactor (MBR) Process For Removal And Recovery Of Nutrients

M.A.H. Johir, S.Vigneswaran, J.Kandasamy University of Technology Sydney (Australia)

A Pilot Scale Study Of Integrated Uasb/Mbr Process For Municipal Wastewater Treatment And Reclamation

W. Fang, F.S Wong, Y.P Moy, S.Lin Institute of Environmental Science and Engineering (Singapore)

Advanced Control System To Treat Ammonia-Rich Effluent And Reduce N₂O Emission By Using An Sbr Operating Via Nitrite Pathway

J.Chauzy, R.Lemaire, F.Veuillet, K.Sorensen, S.Deleris Veolia Water, Technical Department (France)

Ammonium And Phosphate Recovery From Wastewater To Produce Energy In A Fuel Cell

P.Luimes DHV (Netherlands)

An Optimal Solution To Achieve The Energy Neutral Plant

C. Amiel, M.Cantegril Veolia (France)

Carbon Footprint: Nitrous Oxide Emissions From Wastewater Treatment Plants

E.Senante, C.Garel, J.M Audic, A.Akerman, P.Dauthuille SUEZ ENVIRONNEMENT (France)

Effective Sewer Mining-The Case For Decentralized Treatment

B.A Petrik, K.P Chiu, P.Wong, J.B Slapper MWH (United States)

Experience With The Design And Operation Of Sustainable Wastewater Treatment Facilities For Pollution Control And Water Reuse In Morocco And Jordan

R.Copithorn, T.Young, J.Brinkley, J.Karam, O.Abu-Rayyan GHD (United States)

Exploring High Efficiency Wastewater Recycle-Reuse Models For Refinery, Chemical Industry And Power Plant Wastewaters Based On Real Life Case Studies.

D.Kachru, S.Kukade, A.Sarkar Aquatech (India)

Gasification As An Optimum Alternative For The Sludge Management

C.Peregrina, J.M Audic, P.Dauthuille SUEZ ENVIRONNEMENT (France)

Hybridization Of Aquifer Recharge And Recovery (ARR): New Concepts In Multi-Barrier Treatment For Wastewater Reuse

G.Amy, S.Sharma, M.Yoon, S.K Maeng, S.Sudhakaran King Abdullah University of Science and Technology (KAUST) (Saudi Arabia)

L'Oréal And Veolia Water Solutions & Technologies: A Successful Combined Approach Towards Wastewater Reclaim

J.P Filhol, B.Pouch, M.Otten Veolia Water Solutions & Technologies (Singapore)

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Membrane Bioreactor Technology: Design Trends

D.Thompson, J.Peeters, S.Katz GE Water (Canada)

Operation And Maintenance Of A Municipal Wastewater Treatment Plant In A Developing Country Binh Hung Wastewater Treatment Plant (WWTP) Ho Chi Minh City, Vietnam

N.Khai, R.Huntington (Viet Nam)

Producing Titania Nanocomposite Membranes For Wastewater Reclamation

X.X.Song, D.D.Sun Nanyang Technological University (Singapore)

Sustainable Wastewater Treatment Contest Yields Innovative Ideas For The Future

C.W.Lage, M.Schultz, A.Shaw, J.Barnard, C.deBarbadillo, J.Fitzpatrick, G.Shimp Black & Veatch (United States)

Sustained Efficiency - A Critical Parameter In Energy Efficient Wastewater Pumping.

S.Abelin, U.H.Arbeus ITT Water & Wastewater (Sweden)

The Economics Of Wastewater Reclamation Using The Latest Energy Saving RO Element Designs

R.Franks, C.Bartels, S.Sunano, T.Knoell Hydranautics (United States)

Thermal Processing - The Future Of Biosolids Treatment?

K.W.R Tsang, F.Sapienza CDM (United States)

Towards A Sustainable Sewage Treatment Plant

A.Visser Royal Haskoning (Netherlands)

Towards Energy Self-Sufficiency In Wastewater Treatment By Optimized Sludge Treatment

M.Arnold, E.Merta VTT (Finland)

Used Water Polishing Using Algae Isolated From The Natural Environment

G.Singh, P.B Thomas, B.P Nadappuram Ngee Ann Polytechnic (Singapore)

Water Recycling In The Australian Food & Beverage Industry A Case Study - Reduced Environmental Footprint

C.Hertle, E.v Driel, M.Kinder GHD (Australia)

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A Multifaceted, Cultural Approach To Community Engagement: Case Study In Urban Water Management

C.Berryman, S.Burgin, T.Webb Western Sydney Regional Organisation of Councils (Australia)

Challenge In Water Management During Climate Change In The Eastern Seaboard Of Thailand

P.Asava-Aree, M.Rungvetvuthivitaya East Water (Thailand)

Collaboration Platforms In Water Management

P.Williams, C.Hidaka, H.Kolar IBM (United States)

Creating A City Of Gardens And Water - Singapore's Active, Beautiful, Clean Waters Programme

K.G Yap, N.S Tan, A.Koh PUB, Singapore's National Water Agency (Singapore)

Developing A Sustainable Solution For The Future Of The Upper Canal

D.Cho, G.Begg, G.Mullen, D.Barnes, T.Church Sinclair Knight Merz (Australia)

Flood Relief Solutions In Metropolitan Cities The Hong Kong Experience Theme: Planning For Sustainable Water Solutions Oral Presentation

K.K Chan, K.W Mak, S.K Tong, K.P Ip Drainage Services Department, the Government of Hong Kong, Special Administration Region (Hong Kong)

Information And Communication Technology (Ict) Platform For Business Water Footprint – A Concept

H.Hegde, A.Sondhi Wipro Water (Wipro Limited) India (India)

Integrated Urban Systems: New Tools To Support Sustainable Water Resource Management

A.Cannan, X.J Zhang CDM (Singapore)

Investing In Water Infrastructure To Ensure Near And Long-Term Clean Water Supply

J.Percival, T.Glover ITT Corporation (United States)

Modeling And Tracking Tools For Integrated River Basin Management, From Planning To Implementation

van der Tak, T.B. Ajello, D.S. Baughman, A.S. Patwardhan CH2M HILL (United States)

Public Acceptance Is Crucial For The Viability Of Sewage By- Products Reuse

A.K.M Din, Y.F.A Aziz, M.H A Hamid Indah Water Konsortium (Malaysia)

Quantifying Water Resources Vulnerability To Climate Change: Method And Case Study In China

J.XIA, X.Pan Chinese Academy of Sciences(CAS), (China)

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Resolving Complex Issues In Large Scale River Restoration; A Case Study - The San Joaquin River In The California Central Valley

W.R Swanson MWH Americas, Inc (United States)

Singapore - A Holistic Approach To Sustainability

D.A.L Owen, D.Phil. Envisager (United Kingdom)

Spatial Risk-Based Assessments Of Climate Change Impacts And Adaptation Using The Simclim Modelling System: A Case Study Of Domestic Water Harvesting Systems

R.Warrick, P.Kouwenhoven, Y.P Li, P.Urich, W.Ye University of the Sunshine Coast (Australia)

Structural Analysis Of Urban Water Cycle In The City Of Changwon, South Korea

H.Lee, G.Seo Changwon National University (Republic of Korea)

The Water Impact Index: A New Tool For Water Footprinting

J.B Bayart, E.Aoustin Veolia Environnement Recherche et Innovation (France)

Tidal Gravity Fresh Water Supply For Integrated Water Resources Management In Nyaungdone Island For Food Security Of Yangon City Urban Population

A.Myint NEPS, National Engineering and Planning Service Company Ltd. (Myanmar)

Using The Public To Stop Water Loss

R.Shah Peer Water Exchange (India)

Water Related Information System For The Sustainable Development Of The Mekong Delta In Vietnam

F. Moder, C. Künzer, V.K. Tri Natural Resources Management, Geoinformatics and Remote Sensing (Vietnam)

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Theme 3: Water Quality & Health

Biotransformation Of Erythromycin By Acclimated Microorganisms In Sequencing Batch Reactors (Sbrs)

C.A Fan, J.Z He National University of Singapore (Singapore)

Developing Sanitation Options To Protect The Water Quality Of The Drinking Water Source Of Herat City, Afghanistan

H.Zohran, N.Noori, N.Khawaja Herat Water Supply and Sewerage Company, GIZ (The German Development Cooperation), Rodeco Consulting GmbH (Afghanistan)

Evaluation Of Antimicrobial Resistance At Environmental Samples In Singapore

J.L Ong, X.Yi, Z.Zhou National University of Singapore (Singapore)

Global Yardstick For Microbial Water Quality: Challenges And Solutions

T.G Aw, K.Y.H Gin, J. B. Rose Michigan State University (United States)

Groundwater Recharge With Treated Wastewater Effluents In Oman: Solution For Saline Water Intrusion Or Contamination Of Groundwater Aquifers?

M.S Baawain Sultan Qaboos University (Oman)

Health Risk Assessment For Use Of Urban Stormwater As A Drinking Water Supply

P Dillon, D Page, MH Lim, E Lee, C Devitt, J Vanderzalm, S Toze and K Hyde CSIRO (Australia)

Human Health Risk Assessment Of Pharmaceuticals, Metabolites And Transformation Products In Surface Water And Drinking Water In The Netherlands

C. de Jongh, P.J.F. Kooij, J.A. van Leerdam, T.L. ter Laak KWR Watercycle Research Institute (Netherlands)

Innovative Sensor Technology For Effective Online Water Quality Monitoring

M.V Wijlen, R.J Xie, W.V Delft, A.N Puah Optiqua Technologies Pte. Ltd. (Singapore)

Integration Of Social, Economic And Health Criteria Into Sustainable Water Supply Solutions

J.Manuszak, M.MacPhee, A.Roberson Malcolm Pirnie Inc. (United States)

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

T.Diez, W.Rogge Vlaamse Maatschappij voor Watervoorziening (VMW) (Belgium)

Mitigation Of Pharmaceuticals And Personal Care Products By Plants

D.Reinhold, N.Aryal Michigan State University (United States)

Predictive Models For The Occurrence Of The Viable But Non-Culturable (Vbnc) Bacteria Under Various Environmental Stresses

S.G Goh, K.Y.H Gin, N.R Panda Nanyang Technological University (Singapore)

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Quantitative Real-Time Polymerase Chain Reaction (Q-Rt-Pcr) Test For Fast, Sensitive Detection Of Coliforms And Enterococci Contamination In Recreational Waters

Y.Etstein, A.Henry, A.Friedmann, I.Kilovaty, G.Scherpereel, N.C.B.T.M.Dutang, F.Enguehard School of Marine Sciences Ruppin Academic Center, Michmoret and The Hebrew university of Jerusalem, Jerusalem, Veolia Environment Research & Innovation, St. Maurice, France (France)

Status Of Urban Drinking Water Quality In Nepal

B.Dangol, Y.Shrestha, M.Maharjan Environment and Public Health Organization (ENPHO) (Nepal)

WSP4IP Project: Development And Implementation Of Community-Based Water Safety Plans (WSP) For Two Peri-Urban Indigenous People (IP) Communities In Mindanao, Philippines

A.C Sales, A.N Tiotangco, H.R Maspiñas, S.G Anima Far Eastern University (Philippines)

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Theme 4: Governance & Finance

Pricing Water For Sustainable Cost Recovery: A Study On China's Water Tariff Reform

H.J Wu University of Oxford (United Kingdom)

Water Sector Reform In Romania; Experiences With A Performance Driven Approach For Institutional And Organizational Change

E.Schrijber, A.Sannen, V.Ciomos Royal Haskoning (Netherlands)