

Poster Presentations on Display Sunday

Assessing the Separation Efficiency of Porous Membrane Filtration Systems in Water Reuse Applications

Therese Krahnstöver, University of Applied Sciences Northwestern Switzerland

Assessment of Storage Techniques of Wastewater for Non-targeted Analysis through in Vitro Bioassays

Shawn Beitel, University of Arizona

Characterization of Solids from a Decentralized Water Reuse System for Agricultural Application, Cal

Rianne Okamoto, Poly Pomona

Characterizing the hydraulic conditions of a SMART full-scale application by using different tracer techniques

Alicia Sanz Prat & Victoria Burke, Carl von Ossietzky University of Oldenburg

Chlorination and Chloramination of Nonylphenol: Identification and Characterization Disinfection By-products in the Presence of Bromide and Iodide

Christiane Hoppe-Jones, University of Arizona

Combined electro-oxidation and aerobic biodegradation for Oil Sands Process-affected Water (OSPW) Treatment and Reuse

Abdallatif Abdalrhman, University of Alberta

Disinfection By-Products Monitoring and Testing of UV/HOCl AOP at Demonstration Pure Water Facility

Elise Chen, Trussell Technologies, Inc.

Feasibility of potable reuse of sewage treatment plant effluent using membrane distillation

Kyung Guen Song, Korea Institute of Science and Technology

Feasibility study of water recovery by the reuse of wastewater and runoff in Tehran

Mahdi Khanahmadi, National Water and Wastewater Eng Co

Field Pilot Results for Treatment of High Silica Content Cooling Tower Blowdown Water for Beneficial Reuse

Arian Edalat, Water Planet Inc.

Floc and Drop vs. Shock and Drop: Two Treatment Approaches to Spent Brine Management from Ion Exchange Systems

Eric Dole, Hazen and Sawyer

Fluorescence spectroscopy as a tool to monitor fouling, failure and contaminants in membranes and water reuse systems

Joseph Wasswa, San Diego State University

Forward osmosis membrane performance during simulated wastewater reclamation: Fouling mechanisms and fouling layer properties

Machawe Motsa, University of South Africa

Forward Osmosis : An Alternative Desalination Technology for Textile Industry

Sheldon, M.S. Jingxi E.Z., Cape Peninsula University of Technology

Augustin, R. Cape Peninsula University of Technology

Korenak J., University of Maribor

Helix-Nielsen C., Aquaporin A/S

Petricin, I., University of Maribor

GO (Graphene Oxide) – Improving Treat-to-Need Water Reuse through Efficient Chlorine-Tolerant Desalination Membranes

Curtis Mowry, Sandia National Laboratories

Health risk management by a combination process of ozonation and ceramic membrane filtration onwater reclamation considering the trade-off betweenvirus removal and disinfection by-products formation

Dongbum Im, Kyoto University

Identification and Screening of organic contaminants in impaired waters using high resolution mass spectrometry

Tarun Anumol, Agilent Technologies

Impact of Treated Municipal Wastewater Irrigation on Growth of Rice Crop for Animal Feeding and Heavy Metals in Paddy Soil

Pham Duy Dong, The United Graduate School of Agricultural Sciences, Iwate University, Japan

Impacts Of Mainstream Ultra-low DO Conditions At A Full-scale MBR Water Reuse Plant

Yunjie Tu, American Water

Increasing water availability by reuse and desalination – WavE

Thomas Track, DECHEMA e.V.

Integration of “lab on a chip” microfluidic technology with loop-mediated isothermal amplification (LAMP) assay for onsite quantification of E. coli

Muyue Han, University of California, Irvine

Ion-Imprinted chitosan fiber for recovery of precious metal from acidic aqueous solution: high selectivity performance in batch and column system

Juan Mao, Huazhong University of Science & Technology

LOW-COST WATER DESALINATION AND SENSOR TECHNOLOGY COMPACT MODULE (DESERT)

Francisco Pedrero Salcedo, Researcher

Markers for Adequate Reduction of Viruses throughout Direct Potable Reuse Schemes

Bradley W. Schmitz, National University of Singapore

Maximizing Every Drop: Balancing the Demand for NPR with the Need IPR for the City of Oceanside

Scott Goldman, Woodard & Curran

Membrane Distillation – An Emerging Water Reuse and Desalination Technology for Low Energy Water Recovery

Lijo Francis, Qatar Environment & Energy Research Institute (QEERI), Qatar Foundation

Modeling and Optimization of Reverse Osmosis Desalination: An Industrial Case Study

Mingheng LI, California State Polytechnic University, Pomona

New Water Brew - Recycling Water for the Highest Purpose

Abigail Antolovich, Xylem

Non-Potable vs. Potable Reuse: How to Decide

Scott Lynch, Black & Veatch

Optimising local resources for indirect potable water reuse

Jeremia van der Walt, Bigen Africa Services (Pty) Ltd

Performance of Cellulose Acetate Membrane in Forward Osmosis System for Water Reuse from Fish Processing Plant

Siriporn Larпкиattaworn, Thailand Institute of Scientific and Technological Research

PolyCera ultrafiltration technology used for wastewater reclamation in remote oil and gas application

James Temple, Water Planet, Inc

Reclaimed Wastewater Appropriation for Agricultural Uses in Iraq, Baghdad as a Case Study

Ahmed Aljanabi, Arizona State University

Reduction of Potable Water Consumption in Qatar by Water Reuse Management for Recreational and Sportive Complex: Aspire Zone Advanced Polishing Treatment

Jose Manuel & Martin Sanchez, Suez Treatment Infrastructure

Reuse of Wastewater using Subsurface Drip Irrigation

Rodney Ruskin, Geoflow, Inc.

Role of Foulants on Virus Removal by Membrane Bioreactor

Thanh H. Nguyen, University of Illinois

Sustainable Water Treatment & Clean Energy

Suresh Jambunathan, Veolia

The Application of Tertiary Anammox Biofilter for Energy-efficient Short-cut Nitrogen Removal

Mi Hyung Kim, BKT United

The Removals of Pharmaceutical and Personal Care Products (PPCPs) in Membrane Bioreactor (MBR) Process for Water Reuse Applications

Junwon Park, Kyoto University

UV/chlorine as an AOP for the Removal of Benzalkonium Chloride during Advanced Treatment of Wastewater

Nan Huang, School of Environment, Tsinghua University

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Nan Huang, School of Environment, Tsinghua University

Zero-Water-to-Waste in a Drought Area

Hamid Amini, Geosyntec Consultant

Poster Presentations on Display Tuesday

A Compact, Efficient and Expandable Title 22 Treatment System for Small Water Systems

Peachie Hytowitz, Amiad Water System

A Microbial Fuel Cell-based System for Winery Wastewater Reuse

David Simpson of the Okinawa Institute of Science and Technology

Advances in Organics Monitoring and Characterization to Control, Predict, and Troubleshoot Potable Reuse Treatment

Amanda Scott, GE Analytical Instruments

Agricultural Water Reuse of Untreated Wastewater in Southern India: Diarrheogenic E. coli on Farms and Different Produce Classes

Anne Thebo, University of California, Berkeley

Assessing and Integrating New and Different Water Supplies: Performing Pipe-Loop Pilot Studies, Creating Performance Standards, and Field Observations for the Carlsbad Desalination Facility

Jonathan Loveland, Black & Veatch

Bridging the Gap: An Innovative Monitoring Tool for Understanding Biofiltration Performance in Reuse Applications

Christina Alito, HDR

Combining UV and PAA Disinfection in Fit-for-Purpose Reuse Applications - Design, Implementation, and Control

Ronald Gehr, Trojan Technologies

Dye Wastewater Treatment by Membrane Distillation using PDMS/PVDF Hybrid Electrospun and Commercial Membranes

Jiaxin GUO, City University of Hong Kong

Economic Expect from Wastewater to Pure Water - Reclamation of Wastewater in the Chemical Industry using submerged microfiltration (SMF) and reverse osmosis (RO) membranes

Frank C.H. Ni, Eco-digital Technology Inc.

Effects of Algae Derived Dissolved Organic Matter on the Performance of Managed Aquifer Recharge: Column Study

Sung Kyu Maeng, Sejong University

Efficiency of Membrane Technology in Wastewater Treatment – Case Study from Poland

Barbara Tomaszewska & Ewa Kmiecik, Mineral and Energy Economy Research Institute, Polish Academy of Sciences

Electrochemical Treatment of Micropollutants in Secondary Effluent using a Three-Dimensional Electrode Reactor

Xianghua Wen, Tsinghua University

Enhanced Degradation of Carbamazepine by Breakpoint Chlorination for Water Reuse: Compared to Chlorination

Wenlong Wang, Tsinghua University

Environmental Impacts of Climate Change on Water Quantity in an Integrated Water Resource: A Case Study

Ayden Baran, Virginia Tech

Escondido's Reuse Program for Agriculture and IPR via Surface Water Augmentation

Jim Rasmus, Black & Veatch

Evaluation of Potential Routes for Wastewater Reuse Management in the Metropolitan Region of Rio de Janeiro

Marcelo Obraczka, University of the State of Rio de Janeiro

Ibuprofen Degradation by the UV/Chlorine Process and Disinfection By-Product Formation in Subsequent Chlorination

Chii SHANG, The Hong Kong University of Science and Technology

Impact of the UV Photolysis of Monochloramine on Emerging Contaminant Removal: New Insights into Potable Water Reuse

Haizhou Liu, University of California, Riverside

Making Wastewater Safer for Indirect Potable Reuse: Removal/Transformation of Persistent Priority Emerging Contaminants via Advanced Oxidation and Transformation Product Identification via High Resolution Mass Spectrometry

Kristin Cochran, University of South Carolina

More Purified Water: Optimizing Flow to the Alamitos Barrier Project

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Nitrogen Removal, Electricity Generation and Greenhouse Gas Emissions in Paddy Fields Irrigated with Treated Municipal Wastewater

Pham Duy Dong, The United Graduate School of Agricultural Sciences, Iwate University, Japan

Operating Experience of the West Basin Edward C. Little Water Recycling Facility Phase V Expansion

Richard Stratton, HDR

Operation Backflush - A New Twist on Public Outreach for Potable Reuse

Steve Thomas, TBC Communications & Media

Practical Examples of Critical Control Points in Potable Reuse Treatment Facilities

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Reducing Carbon Footprint by using Nanofiltration in Full Advanced Treatment Approach

Zaid Chowdhury, Garver

Rehabilitation and Star up Stage of Tertiary Wastewater Treatment Plant for Water Reuse in Irrigated Agriculture: A Case Study

Daniel Gonzalez-Perez, Univeresity of Granada

Removal and Degradation Mechanism of Anatoxin-a using UV photolysis and UV/H₂O₂ processes
Kyung-Duk Zoh, Seoul National University

Response Surface Modeling of Industrial Wastewater Treatment by Fenton and Photo-Fenton Processes
Jiangyong Hu, National University of Singapore

Surfactant Effects on Direct Contact Membrane Distillation
Coral Taylor, University of Nevada, Reno

The Impact of Strain Diversity on Rotavirus Solar Irradiation Disinfection
Helen Nguyen, University of Illinois

Treatment of Real and a New Synthetic Bathroom Greywater with Biochar Adsorption, Chlorination, and Biodegradation
Kyle Thompson, University of Colorado Boulder

Triunfo-Las Virgenes JPA Recycled Water Seasonal Storage Plan of Action and Basis of Design
Oliver Slosser, Stantec

Use of Geotextiles for Clogging Prevention After Re-aeration in Sequential Managed Aquifer Recharge
Josefine Filter, Technische Universität Berlin

Using Data Diagnostic Tools for Plant Operation and Management
Jessica Boynton, King Lee Technologies

Virus Removal by Ceramic Microfiltration Membrane with Pre-coagulation in Water Reuse
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Water Reclamation for the Construction Industry in Sub-Saharan Africa – The Case of Maputo, Mozambique
Noor Gulamussen, Delft University of Technology

Water Reuse – An Indiana Prospective
Tak Kai Pang, American Structurepoint

Water Reuse using Decentralized, Advanced Septic Treatment
Rakesh Govind, Green Forward Technologies, LLC

Why Reusing Produced Water Needs to be a Major Water Management Practices in the Oil & Gas Operation
Rajendra Ghimire, PFP Industries

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