



23rd Annual WaterReuse Symposium Program

Sunday, September 7, 2008

9:00 a.m. – **Registration Open**
5:30 p.m.

	S1: Current Issues in Desalting <i>Moderator: John Morris Metropolitan Water District of Southern California</i>	S2: Groundwater Recharge <i>Moderator: Mark McNeal ASRus, LLC</i>	S3: Microconstituents <i>Moderator: Kevin Conway Greeley and Hansen LLC</i>	S4: Regional Water Reuse Issues/ Funding Strategies <i>Moderator: Keith Israel Monterey Regional Water Pollution Control Agency</i>
1:00 p.m. – 1:30 p.m.	Sustainable Water Supplies Across the Pacific: A Tale of Two Countries <i>Brent Alspach Malcolm Pirnie</i>	IPR – Its Time Has Come! <i>Tom Richardson RMC Water and Environment</i>	Performance Monitoring in Indirect Potable Reuse to Assure Proper Removal of Regulated and Unregulated Trace Organic Chemicals <i>Jörg Drewes Colorado School of Mines</i>	The Importance of the Tucson Water Regional Reclaimed Water System to the Economic Vitality of the City of Tucson – Pima County Region <i>John Kmiec, Tucson Water Tim Thomure, HDR Engineering</i>
1:30 p.m. – 2:00 p.m.	Critical Assessment of Implementing Seawater Desalination <i>Pei Xu Colorado School of Mines</i>	Tracer Study of Reclaimed Water in Artificial Recharge Systems <i>Wontae Lee HDR Engineering</i>	EDC Removal: A Comparison of GAC Sorption and UV/Peroxide Oxidation Pilot Studies <i>J. Clinton Rogers Carollo Engineers</i>	Low-cost Treatment Technologies for Small-Scale Water Reclamation Plants (WaterReuse Foundation 06-008) <i>Andrew Salvesson Carollo Engineers</i>
2:00 p.m. – 2:30 p.m.	Offshore Desalination Plant Feasibility <i>Mark Graves HDR Engineering</i>	Startup of an 86-MGD Advanced Water Purification Facility <i>Aaron Balczewski Siemens Water Technologies</i>	Removal of EDCs in Septic Systems Designed for Production of Nonpotable Reuse Water <i>Benjamin Stanford Southern Nevada Water Authority</i>	Satellite Versus Regional Treatment: A Big Choice <i>Steve Davis Malcolm Pirnie</i>

2:30 p.m. – **Refreshment Break**
3:00 p.m.

3:00 p.m. – 3:30 p.m.	Application of Large-Diameter RO Membrane Elements for Desalination <i>Robert Bergman CH2M HILL</i>	Transitioning Effluent Management from Direct Recharge to Achieving 100% Beneficial Reuse in Surprise, Arizona <i>Steven Sagstad Brown and Caldwell</i>	Removal of PhACs, EDCs, and Estrogenicity at a Pilot-Scale Photocatalysis Treatment Plant <i>Mark Benotti Southern Nevada Water Authority</i>	Now We're in the Business of Reuse, How Do We Pay for It? <i>Dina O'Reilly and Cil Pierce HDR Engineering</i>
3:30 p.m. – 4:00 p.m.	Results from a Year-Long Seawater Desalination Pilot Program in San Francisco Bay <i>Todd Reynolds Kennedy/Jenks Consultants</i>	The GWR System is Now Successfully Purifying Water <i>Donald Cutler CDM</i>	Removal of Biochemically Active Compounds from Wastewater Effluent Using UV/H ₂ O ₂ Treatment <i>Erik Rosenfeldt University of Massachusetts-Amherst</i>	Reclaimed Water Rates — Is Full Cost Recovery for You? <i>Alan Rimer Black & Veatch</i>
4:00 p.m. – 4:30 p.m.	Tampa Bay Seawater Desalination Facility <i>Efrain Rodriguez American Water</i>	Feasibility Study for Aquifer Recharge and Subsequent Indirect Potable Reuse in Southwest Florida <i>John Powers CH2M HILL</i>	The Use of Surrogates and Indicators to Assess the Performance of Soil Aquifer Treatment Systems Treating Recycled Water <i>Eric Dickenson Colorado School of Mines</i>	Reclaimed Water — Issues and Funding <i>Diane Kemp CDM</i>

5:30 p.m. – **Welcome Reception**
7:00 p.m.



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7:00 a.m. – **Registration Open**
3:30 p.m.

7:00 a.m. – **Exhibit Hall Open**
3:30 p.m.

7:00 a.m. – **Continental Breakfast**
8:00 a.m.

8:00 a.m. – **Opening Session**
9:30 a.m.

9:30 a.m. – **Refreshment Break**
10:00 a.m.

	A1: The Move to Desalination — A Panel Discussion <i>Moderator: Bob Reed Reed & Associates</i>	B1: Health Effects & Risk Assessment <i>Moderator: Craig Riley Washington State Department of Health</i>	C1: Innovative Reuse Applications <i>Moderator: Alan Plummer Alan Plummer Associates, Inc.</i>	D1: Storage/ Irrigation Issues <i>Moderator: Richard Nagel West Basin Municipal Water District</i>
10:00 a.m. – 10:30 a.m.	Introductory Presentations: Australia and the World <i>Nicholas Apostolidis GHD, Australia</i>	Quantitative Health Risk Assessment for Indirect Potable Water Reuse <i>Jörg Drewes Colorado School of Mines</i>	Reclaimed Water Without Pipelines? Evaluation of a Potential Satellite Wastewater Plant <i>Robert Johnson Dallas Water Utilities</i>	Monitoring Water Quality in Seasonal Storage Reservoirs — Without Going Bright Green <i>Nichole Baker RMC Water and Environment</i>
10:30 a.m. – 11:00 a.m.	Texas Overview <i>Jorge Arroyo Texas Water Development Board</i> California Overview <i>Peter MacLaggan Poseidon Resources Corporation</i>	Safe Exposure Levels of Selected PPCPs, EDCs and Other Chemicals of Interest in Recycled Water <i>Gretchen Bruce Intertox</i>	Texas Style Subsidence Credit Solutions — How Reuse Solved One Utility’s Problem <i>Don Vandertulip CDM</i>	Innovative Thinking and Adaptability for Reuse System Integration in the City and County of Broomfield, CO <i>David Dalsoglio City and County of Broomfield</i>
11:00 a.m. – 11:30 a.m.	Florida Overview <i>Christine Owen Tampa Bay Water</i>	Occurrence and Relevance of EDCs and Pharmaceuticals in Water <i>Shane Snyder Southern Nevada Water Authority</i>	Qingdao Ecoblock Sustainable Development <i>Rowan-Roderick Jones and Manish Dalia Arup</i>	Keeping Up with the Jones’ Irrigation Demands <i>Heather Cavanagh PBS&J</i>
11:30 a.m. – 12:00 p.m.	Followed by 40 minutes of lively discussion and interaction among panelists, audience, and moderator.	Bromate Research Progress and Contaminants in Highly Treated Waters <i>Joseph Cotruvo Joseph Cotruvo & Associates</i>	Hybrid Forward Osmosis Process for Treatment of Impaired Water During Desalination <i>Carl Lundin Colorado School of Mines</i>	A Case Study of a Recycled Water Misconnection in Chula Vista, California <i>Rod Posada Otay Water District</i>



23rd Annual WaterReuse Symposium Program

Monday, September 8, 2008

12:00 p.m. – **Awards Luncheon and Annual Membership Meeting**
1:30 p.m.

	A2: Inland/ Brackish Water Desalination Issues <i>Moderator: Paul Kinshella Phoenix Water Services Department</i>	B2: Membrane Technologies for Water Reuse <i>Moderator: R. Shane Trussell Trussell Technologies</i>	C2: Water Reuse Planning Issues <i>Moderator: Alan Rimer Black & Veatch</i>	D2: Industrial Issues <i>Moderator: Bahman Sheikh Water Reuse Consultant</i>
1:30 p.m. – 2:00 p.m.	Comparison of Parallel RO, NF and EDR Desalination Technology After Nine Years of Operation <i>Todd Reynolds Kennedy/Jenks Consultants</i>	Assessing Impact of Wastewater Treatment and Effluent Quality on Tertiary Membrane Design <i>James Lozier CH2M HILL</i>	In the Beginning — Planning for the South District Water Reclamation Plant <i>Don Cutler CDM</i>	UF-RO Pilot Study at a Water Reclamation Plant in Singapore <i>Kiran Kekre Singapore Utilities International</i>
2:00 p.m. – 2:30 p.m.	Desalination Challenges in the Desert — Softening of RO Concentrate for Large Inland Water Treatment Plant <i>Charlie He Carollo Engineers</i>	Start-up & Operations Results at an Australian Advanced Water Reclamation Plant <i>Mark Waer Black & Veatch</i>	Water Scarcity Drives the Need for Advanced Water Treatment Plants <i>Cindy Wallis-Lage Black & Veatch</i>	Finding Reclaimed Water Customers Round 2 — A Different Approach <i>Karen Lowe, CDM Elwood Herom, CDM Sandra Anderson, City of Tampa</i>
2:30 p.m. – 3:00 p.m.	Hedging Your Bets: Designing a Water Treatment Facility in an Uncertain Water Use Permitting Environment <i>Cory Johnson CH2M HILL</i>	The Osmotic Membrane Bioreactor: A Dual Barrier System for Potable Water Reuse <i>Andrea Achilli University of Nevada, Reno</i>	Water Supply Planning: The Recycled Water Component <i>Pablo Martinez San Antonio Water System</i>	Addressing Special Needs of Industrial Customers to Facilitate Recycled Water Use <i>Jeff Noelte Inland Empire Utilities Agency</i>
3:00 p.m. – 3:30 p.m.	Refreshment Break			
3:30 p.m. – 4:00 p.m.	Using Reclaimed Water and Desalination to Reduce the Effects of the 2007 and 2008 Drought in South Florida <i>Ashie Akpoji South Florida Water Management District</i>	Ground Water Recharge in South Florida: A Pilot Study of High-Level Wastewater Treatment Technologies <i>Sangeeta Dhulashia MWH</i>	Satisfying Multiple Competing Objectives on the First Nonpotable Municipal-Wide Irrigation System in New Jersey <i>Thomas Dumm O'Brien & Gere</i>	Valuing Water in the Land of 10,000 Lakes — Reclaimed Water for Minnesota's Industries <i>Patti Craddock Craddock Consulting Engineers</i>
4:00 p.m. – 4:30 p.m.	Chino Basin Desalter Authority Desalination Program <i>Amy Jones Inland Empire Utilities Agency</i>	Water Reuse and Water Recharge for the City of Fort Lauderdale, Florida: Taking a Holistic Approach in Meeting Alternative Water Supply Needs <i>Ronald Abraham CDM</i>	Using Technology to Administer a Reclaimed Water Program <i>Karen Dotson Tucson Water</i>	Municipal—Industrial Partnership for Reuse: A Case Study in the Northeast U.S. <i>Randall Booker Malcolm Pirnie</i>
4:30 p.m. – 5:00 p.m.	Beneficial Use of Coalbed Methane Produced Water: Water Quality Issues and Treatment Strategies <i>Katie Benko Colorado School of Mines</i>	Photo-Cat: An Upstream, Multi-Barrier AOP Approach to Reduce RO and NF Membrane Fouling <i>Benjamin Stanford Southern Nevada Water Authority</i>	Honestly... What's the reUse? <i>Todd Cristiano Red Oak Consulting</i>	Water Reuse at Palo Verde Nuclear Generating Station <i>Henry Day Arizona Public Service</i>

5:30 p.m. – **President's Reception**
7:00 p.m.

23rd Annual WaterReuse Symposium Program

Tuesday, September 9, 2008

7:00 a.m. – **Registration Open**
3:30 p.m.

7:00 a.m. – **Exhibit Hall Open**
3:30 p.m.

7:00 a.m. – **Continental Breakfast**
8:00 a.m.

	A3: Desalination Implementation and Economics <i>Moderator: Sandy Robinson Malcolm Pirnie</i>	B3: Ground Water Issues and ASR <i>Moderator: Lisa Prieto CDM</i>	C3: Water Quality Issues <i>Moderator: Jorge Arroyo Texas Water Development Board</i>	D3: National Legislative and Water Policy Outlook Session <i>Moderator: Carolyn Ahrens Booth, Ahrens & Werkenthin, P.C.</i>
8:00 a.m. – 8:30 a.m.	Developing a Groundwater Desalination Facility: A Road Map for Communities <i>Michael Irlbeck NRS Consulting Engineers</i>	Use of a Saline Aquifer to Advance Reclaimed Water ASR in Florida <i>Mark McNeal ASRus</i>	Growth of Opportunistic Pathogens and Biofilm Formation in Reclaimed Water Distribution Systems <i>Patrick Jjemba American Water</i>	Presentations on Legislative Activities Related to Water Reuse and Desalination Panelists Include: <i>Jeff Garwood GE Water</i> <i>Benjamin Grumbles U.S. EPA (invited)</i> <i>Eric Sapirstein ENS Resources</i>
8:30 a.m. – 9:00 a.m.	Climate Action Plans for Water Recycling and Desalination Facilities <i>Alan Zelenka Kennedy/Jenks Consultants</i>	Using SAT to Address Public Concerns of Beneficial Reuse in a Sole Source Aquifer <i>Tekla Taylor Brown and Caldwell</i>	Making High Quality Reclaimed Water: Challenges with RO Permeate Stabilization <i>Amlan Ghosh Malcolm Pirnie</i>	
9:00 a.m. – 9:30 a.m.	Desalination — Energy Efficiency Optimization and Sustainable Energy Sources <i>Srinivas Veerapaneni Black & Veatch</i>	Leaching of Metals from Aquifer Soils with Reclaimed Water of Low Ionic Strength <i>Qilin Li Rice University</i>	Safety and Suitability of Irrigation of Edible Crops with Recycled Water <i>David York York Water Circle</i>	

9:30 a.m. – **Refreshment Break**
10:00 a.m.

	A4: Desalination Concentrate Management — Part I <i>Moderator: Val Frenkel Kennedy/Jenks Consultants</i>	B4: Treatment Technologies <i>Moderator: Andrew Salvesson Carollo Engineers</i>	C4: Water Reuse in the Urban Environment <i>Moderator: Don Vandertulip CDM</i>	D4: Regulatory Forum <i>Moderator: Jo Ann Jackson PBS&J</i>
10:00 a.m. – 10:30 a.m.	Please Pass the Salt: Feasibility for Concentrate Disposal in Depleted Oil and Gas Fields <i>Robert Mace Texas Water Development Board</i>	Increasing California Title 22 Filter Loading Rate at Full-Scale Water Recycling Facilities: Effect on Removal of Particles and Inactivation of Pathogen Indicators <i>Bahman Sheikh Water Reuse Consultant</i>	Integrating Wastewater Reuse Systems into Municipal Watershed Management Strategy <i>Bo Butler and Mark Hilty Smith Seckman Reid</i>	Brief Updates from States and Nations in Attendance — Covering Rulemaking Activities, Issues Faced and Accomplishments
10:30 a.m. – 11:00 a.m.	A Novel Hybrid Membrane Processes for Minimizing Concentrated Brine Created During Inland Desalination <i>Nathan Hancock Colorado School of Mines</i>	Pilot Testing of a High Rate Disk Filter for Title 22 Approval <i>Keith Bourgeois Carollo Engineers</i>	Solving Issues of Water Supply and Quality through Optimal Urban Reuse Applications: A Case Study <i>Aditya Tyagi CH2M HILL</i>	



23rd Annual WaterReuse Symposium Program

Tuesday, September 9, 2008

	A4 (Continued)	B4 (Continued)	C4 (Continued)	D4 (Continued)
11:00 a.m. – 11:30 a.m.	Brine Minimization/Salt Management Using VSEP® Technology to Maximize Water Recovery <i>Umur Yenal University of Arizona</i>	Comparison of Alternative Treatment Trains for Indirect Potable Reuse: Balancing Environmental, Economic, and Health Concerns <i>Larry Schimmoller CH2M HILL</i>	Subsurface Drip Irrigation with Treated Effluent to Golf Course Fairways <i>Peter Gearing URS New Zealand Limited</i>	Open Discussion of Regulatory Issues Related to Microconstituents, Nutrients, Public Health, Public Acceptance, Indirect Potable Reuse, Rulemaking, Water Quality, Permitting, Disinfection, and Developing National/International Consistency.
11:30 a.m. – 12:00 p.m.	Discussion of Zero Liquid Discharge Treatment Alternatives, Costs, and Energy Requirements <i>Rick Bond Black & Veatch</i>	Reuse Utility is Natural Selection for Environmentally Friendly Master Planned Community <i>Dennis Cafaro Bonita Bay Group Company</i>	Don't Waste a Drop — How Marco Island is Maximizing Water Resources <i>Solomon Abel CDM</i>	
12:00 p.m. – 1:30 p.m.	Lunch on Your Own			
	A5: Desalination Concentrate Management — Part II <i>Moderator: Darryl Miller Irvine Ranch Water District</i>	B5: Disinfection Technologies <i>Moderator: Joe Cotruvo Joseph Cotruvo & Associates, LLC</i>	C5: Surface Water Augmentation <i>Moderator: Tim Coughlin Loudoun Water</i>	D5: User Issues Forum: Use of Reclaimed Water at Golf Courses <i>Moderators: Mike McCullough, Northern California Golf Association and Bruce Lazenby, Rose Hills Mortuary and Memorial Park</i>
1:30 p.m. – 2:00 p.m.	Enhanced Concentrate Recovery Feasibility Analysis for San Antonio Water System <i>Howard Steiman R.W. Beck</i>	A Blending of Old and New Schools for Reclaimed Water Disinfection <i>Andrew Salvason Carollo Engineers</i>	Water Quality Through Advanced Wastewater Treatment (AWT) Facilities and Recharge Modeling (WaterReuse Foundation 06-019) <i>Zhi Zhou Carollo Engineers</i>	Between a Rock or Groundwater: Our Course's Conversion to Recycled Water <i>Charles Joachim CGCS Champions Golf Club</i>
2:00 p.m. – 2:30 p.m.	Recent Developments in Underground Injection Statutes and Rules for Desalination Concentrate Management in Texas <i>Michelle McFaddin Texas Water Development Board</i>	Impact of Sequential & Preformed Chloramine Dosing on NDMA Formation in Re-purified Wastewater <i>Mary Portillo and Karla Kinser MWH</i>	Leading Australia's Water Security Solutions for Inland Cities and Towns: A Case Study from the National Capital — Canberra <i>John Dymke ACTEW Corporation</i>	A Successful Transition to Recycled Water — Positive Experiences with Local Staff, Consultants and Water Quality <i>Pat Finlen CGCS The Olympic Club</i>
2:30 p.m. – 3:00 p.m.	Going Deep! A Small Inland Water Agency Investigates Deep Well Injection in California <i>Ryan Alameda RMC Water and Environment</i>	Disinfection Design and Operation Implications for Facilities Practicing Reuse <i>Edmund Kobylinski Black & Veatch</i>	Strategies to Minimize Impacts of a Microchip Manufacturer on a Potable Water Reuse System <i>Robert Angelotti Upper Occoquan Service Authority</i>	Salinity Outreach — Utilizing Technology to Teach Landscape Professionals about Salt and Salinity Issues <i>Bahman Sheikh Water Reuse Consultant</i>
3:00 p.m. – 3:30 p.m.	Refreshment Break			
3:30 p.m. – 4:00 p.m.	Treatment Wetlands for Concentrate: Developments in Australia and Arizona <i>Jim Jordahl CH2M HILL</i>	An Empirical Method for Accurately Sizing Wastewater UV Reactors for Disinfection of any Microorganisms <i>Tavy Wade Carollo Engineers</i>	Reuse for Potable Water Supply Augmentation in the Trinity River Basin <i>Glenn Clingenpeel Trinity River Authority of Texas</i>	An Update on the Regulations Concerning the Satellite Plant in Midland, TX <i>Brad Castleberry and Lloyd Gosselink Blevins Rochelle & Townsend, P.C.</i>
4:00 p.m. – 4:30 p.m.	Spontaneous Solids Generation in the World's Longest Municipal Brine Line <i>Gregory Wetterau CDM</i>	Implementing an Effective UV Advanced Oxidation Process <i>Paul Swaim CH2M HILL</i>	The PUREwater Solution: Cloudcroft, NM Indirect Potable Reuse Project <i>Eddie Livingston Livingston Associates</i>	Are Small-Scale, Pre-Packaged Treatment Systems Right for You? <i>Andrew Salvason Carollo Engineers</i>
4:30 p.m. – 5:00 p.m.	Assessment of a Hybrid Approach for Desalination Concentrate Minimization <i>Pei Xu Colorado School of Mines</i>	The Validation of Ozone for Reclaimed Water Disinfection <i>Cari Ishida Carollo Engineers</i>	Micropollutant Treatment with UV-Oxidation at Colorado's First Indirect Potable Reuse Project <i>Mark Beebe Richard P. Arber Associates</i>	Continuing Discussion of User Issues by Speakers and Attendees



23rd Annual WaterReuse Symposium Program

Wednesday, September 10, 2008

7:00 a.m. – **Registration Open**
8:30 a.m.

7:00 a.m. – **Continental Breakfast**
8:00 a.m.

	A6: Advances in Desalination Technology <i>Moderator: Nikolay Voutchkov Poseidon Resources Corporation</i>	B6: Regulatory Considerations <i>Moderator: Bob Hultquist California Department of Public Health</i>	C6: Planning for Water Reuse <i>Moderator: Anthony Andrade Southwest Florida Water Management District</i>	D6: Wetland Issues <i>Moderator: Paul Kinshella Phoenix Water Services Department</i>
8:00 a.m. – 8:30 a.m.	Solarpump: A Solar-Driven System for Distilling and Transporting Water Using a Porous Material <i>Shinichi Takami Kindai University</i>	Recycled Water is the Key to Resolving Regional Water Issues in Monterey, California <i>Steven Kasower University of California, Santa Cruz</i>	Matching Service Level to Product Quality <i>Joe Walters West Basin Municipal Water District</i>	Evolution of the Use of Constructed Wetlands for Beneficial Reuse in Florida <i>Jo Ann Jackson PBS&J</i>
8:30 a.m. – 9:00 a.m.	Design Optimization of Anti-Fouling Micromixers for Reverse Osmosis Membranes <i>Siri Sahib S. Khalsa Sandia National Laboratories</i>	California Dreamin: The State Climate for Water Recycling <i>Cassie Aw-yang Somach Simmons & Dunn</i>	Southeast Texas Trends in Urban Reuse — Some Surprising Numbers <i>Mark Lowry TCB/AECOM</i>	The Chino Creek Wetlands and Educational Park Project <i>Lucia Fuertez Inland Empire Utilities Agency</i>
9:00 a.m. – 9:30 a.m.	Surface Water Augmentation-Integration of Desalination <i>Dhananjay Mishra Malcolm Pirnie</i>	Reuse Water as a Texas Viable Water Supply Strategy <i>Alan Plummer Alan Plummer Associates</i>	Water Reuse Planning for Military Installations <i>Stacey Fredenberg Malcolm Pirnie</i>	Constructed Wetlands Provide Water Reuse <i>Ronald Crites Brown and Caldwell</i>
9:30 a.m. – 10:00 a.m.	Assessing Water Quality and Treatment Goals for Ocean Desalination: Looking at All Sides <i>Phil Lauri West Basin Municipal Water District</i>	Water Reuse to Offset Growth-Driven Water Scarcity in the Southwest: From Supply Augmentation to Substitution <i>Christopher Scott University of Arizona</i>	Reducing Your Carbon Footprint with Recycled Water <i>Dawn Lesley Kennedy/Jenks Consultants</i>	Oxnard California's Groundwater Recovery Enhancement and Treatment (GREAT) Program <i>Mary Vorissis CH2M HILL</i>

10:00 a.m. – **Closing Plenary Session: Pharmaceuticals in Water — Should We Be Concerned?**
12:00 p.m.

12:00 p.m. – **Closing Remarks**
12:15 p.m.



Presentations by Subject Area

Agricultural Reuse

- C3 – Safety and Suitability of Irrigation of Edible Crops with Recycled Water
- D6 – Constructed Wetlands Provide Water Reuse

Aquifer Storage and Recovery

- B3 – Use of a Saline Aquifer to Advance Reclaimed Water ASR in Florida
- D6 – Oxnard California's Groundwater Recovery Enhancement and Treatment (GREAT) Program

Conveyance, Distribution, and Storage System Design and Operation

- D1 – Monitoring Water Quality in Seasonal Storage Reservoirs - Without Going Bright Green
- D1 – Innovative Thinking and Adaptability for Reuse System Integration in the City and County of Broomfield, CO
- D1 – Keeping Up with the Jones' Irrigation Demands
- D1 – A Case Study of a Recycled Water Misconnection in Chula Vista, California
- C2 – Using Technology to Administer a Reclaimed Water Program
- A5 – Spontaneous Solids Generation in the World's Longest Municipal Brine Line
- C6 – Southeast Texas Trends in Urban Reuse – Some Surprising Numbers

Desalination: Concentrate/Brine Management

- S1 – Sustainable Water Supplies Across the Pacific: A Tale of Two Countries
- S1 – Offshore Desalination Plant Feasibility
- A2 – Desalination Challenges in the Desert – Softening of RO Concentrate for Large Inland Water Treatment Plant
- A4 – Please Pass the Salt: Feasibility for Concentrate Disposal in Depleted Oil and Gas Fields
- A4 – A Novel Hybrid Membrane Processes for Minimizing Concentrated Brine Created During Inland Desalination
- A4 – Brine Minimization/Salt Management Using VSEP® Technology to Maximize Water Recovery
- A4 – Discussion of Zero Liquid Discharge Treatment Alternatives, Costs, and Energy Requirements
- A5 – Enhanced Concentrate Recovery Feasibility Analysis for San Antonio Water System
- A5 – Recent Developments in Underground Injection Statutes and Rules for Desalination Concentrate Management in Texas
- A5 – Going Deep! A Small Inland Water Agency Investigates Deep Well Injection in California
- A5 – Treatment Wetlands for Concentrate: Developments in Australia and Arizona
- A5 – Spontaneous Solids Generation in the World's Longest Municipal Brine Line
- A5 – Assessment of a Hybrid Approach for Desalination Concentrate Minimization

Desalination: Economics, Rates, and Financing

- S1 – Critical Assessment of Implementing Seawater Desalination
- S1 – Offshore Desalination Plant Feasibility
- A1 – The Move to Desalination – A Panel Discussion
- D2 – Water Reuse at Palo Verde Nuclear Generating Station
- A3 – Developing a Groundwater Desalination Facility: A Road Map for Communities
- A3 – Climate Action Plans for Water Recycling and Desalination Facilities
- A3 – Desalination – Energy Efficiency Optimization and Sustainable Energy Sources

Desalination: Project Summaries — Groundwater

- S1 – Critical Assessment of Implementing Desalination Technology
- S2 – Feasibility Study for Aquifer Recharge and Subsequent Indirect Potable Reuse in Southwest Florida
- A1 – The Move to Desalination – A Panel Discussion
- A2 – Comparison of Parallel RO, NF and EDR Desalination Technology After Nine Years of Operation
- A2 – Desalination Challenges in the Desert – Softening of RO Concentrate for Large Inland Water Treatment Plant
- A2 – Hedging Your Bets: Designing a Water Treatment Facility in an Uncertain Water Use Permitting Environment
- A2 – Using Reclaimed Water and Desalination to Reduce the Effects of the 2007 and 2008 Drought in South Florida
- A2 – Chino Basin Desalter Authority Desalination Program
- A2 – Beneficial Use of Coalbed Methane Produced Water: Water Quality Issues and Treatment Strategies
- A4 – Discussion of Zero Liquid Discharge Treatment Alternatives, Costs, and Energy Requirements
- A5 – Enhanced Concentrate Recovery Feasibility Analysis for San Antonio Water System
- A5 – Spontaneous Solids Generation in the World's Longest Municipal Brine Line
- A5 – Assessment of a Hybrid Approach for Desalination Concentrate Minimization

Desalination: Project Summaries — Seawater

- S1 – Sustainable Water Supplies Across the Pacific: A Tale of Two Countries
- S1 – Critical Assessment of Implementing Desalination
- S1 – Offshore Desalination Plant Feasibility
- S1 – Application of Large-Diameter RO Membrane Elements for Desalination
- S1 – Results from a Year-Long Seawater Desalination Pilot Program in San Francisco Bay
- S1 – Tampa Bay Seawater Desalination Facility
- A1 – The Move to Desalination – A Panel Discussion
- C1 – Hybrid Forward Osmosis Process for Treatment of Impaired Water During Desalination
- A3 – Desalination – Energy Efficiency Optimization and Sustainable Energy Sources
- A6 – Assessing Water Quality and Treatment Goals for Ocean Water Desalination: Looking at All Sides

Desalination: Technologies

- S1 – Application of Large-Diameter RO Membrane Elements for Desalination
- S1 – Tampa Bay Seawater Desalination Facility
- B1 – Bromate Research Progress and Contaminants in Highly Treated Waters
- A2 – Comparison of Parallel RO, NF and EDR Desalination Technology After Nine Years of Operation
- A3 – Developing a Groundwater Desalination Facility: A Road Map for Communities
- A3 – Desalination – Energy Efficiency Optimization and Sustainable Energy Sources
- A4 – Discussion of Zero Liquid Discharge Treatment Alternatives, Costs, and Energy Requirements
- A5 – Enhanced Concentrate Recovery Feasibility Analysis for San Antonio Water System
- A5 – Assessment of a Hybrid Approach for Desalination Concentrate Minimization
- A6 – Solarpump: A Solar-Driven System for Distilling and Transporting Water Using a Porous Material
- A6 – Design Optimization of Anti-Fouling Micromixers for Reverse Osmosis Membranes
- A6 – Surface Water Augmentation-Integration of Desalination
- A6 – Assessing Water Quality and Treatment Goals for Ocean Water Desalination: Looking at All Sides



Presentations by Subject Area

Disinfection

- B5 – A Blending of Old and New School for Reclaimed Water Disinfection
- B5 – Impact of Sequential & Preformed Chloramine Dosing on NDMA Formation in Repurified Wastewater
- B5 – Disinfection Design and Operation Implications for Facilities Practicing Reuse
- B5 – An Empirical Method for Accurately Sizing Wastewater UV Reactors for Disinfection of any Microorganism
- B5 – Implementing an Effective UV Advanced Oxidation Process
- B5 – The Validation of Ozone for Reclaimed Water Disinfection

Environmental Enhancement Reuse

- A5 – Treatment Wetlands for Concentrate: Developments in Australia and Arizona
- D6 – Evolution of the Use of Constructed Wetlands for Beneficial Reuse in Florida
- D6 – The Chino Creek Wetlands and Educational Park Project
- D6 – Constructed Wetlands Provide Water Reuse
- D6 – Oxnard California's Groundwater Recovery Enhancement and Treatment (GREAT) Program

Financing, Pricing, Rates and Economics

- S4 – The Importance of the Tucson Water Regional Reclaimed Water System to the Economic Vitality of the City of Tucson-Pima County Region
- S4 – Low-cost Treatment Technologies for Small-Scale Water Reclamation Plants (WateReuse Foundation 06-008)
- S4 – Satellite Versus Regional Treatment: A Big Choice
- S4 – Now We're In the Business of Reuse, How Do We Pay For It?
- S4 – Reclaimed Water Rates – Is Full Cost Recovery For You?
- S4 – Reclaimed Water – Issues and Funding
- D1 – Keeping Up with the Jones' Irrigation Demands
- C2 – "Honestly...What's the reUse?"

Ground Water Issues and Concepts

- S2 – Tracer Study of Reclaimed Water in Artificial Recharge Systems
- B3 – Use of a Saline Aquifer to Advance Reclaimed Water ASR in Florida
- B3 – Using SAT to Address Public Concerns of Beneficial Reuse in a Sole Source Aquifer
- B3 – Leaching of Metals from Aquifer Soils with Reclaimed Water of Low Ionic Strength

Groundwater Recharge — Injection and Spreading

- S2 – IPR – Its Time Has Come!
- S2 – Tracer Study of Reclaimed Water in Artificial Recharge Systems
- S2 – Startup of an 86-MGD Advanced Water Purification Facility
- S2 – Transitioning Effluent Management from Direct Recharge to Achieving 100% Beneficial Reuse in Surprise, Arizona
- S2 – The GWR System is Now Successfully Purifying Water
- S2 – Feasibility Study for Aquifer Recharge and Subsequent Indirect Potable Reuse in Southwest Florida
- B2 – The Osmotic Membrane Bioreactor: A Dual Barrier System for Potable Water Reuse
- B2 – Ground Water Recharge in South Florida: A Pilot Study of High-Level Wastewater Treatment Technologies
- B2 – Water Reuse and Water Recharge for the City of Fort Lauderdale, Florida: Taking a Holistic Approach in Meeting Alternative Water Supply Needs
- C2 – In the Beginning – Planning for the South District Water Reclamation Plant
- B3 – Use of a Saline Aquifer to Advance Reclaimed Water ASR in Florida
- B3 – Using SAT to Address Public Concerns of Beneficial Reuse in a Sole Source Aquifer
- B3 – Leaching of Metals from Aquifer Soils with Reclaimed Water of Low Ionic Strength
- C3 – Making High Quality Reclaimed Water: Challenges with RO Permeate Stabilization

- C5 – Micropollutant Treatment with UV-Oxidation at Colorado's First Indirect Potable Reuse Project
- D6 – Constructed Wetlands Provide Water Reuse

Health Effects and Risk Assessment

- B1 – Quantitative Health Risk Assessment for Indirect Potable Water Reuse
- B1 – Safe Exposure Levels of Selected PPCPs, EDCs and Other Chemicals of Interest in Recycled Water
- B1 – Occurrence and Relevance of EDCs and Pharmaceuticals in Water
- B1 – Bromate Research Progress and Contaminants in Highly Treated Waters
- D1 – A Case Study of a Recycled Water Misconnection in Chula Vista, California
- C3 – Growth of Opportunistic Pathogens and Biofilm formation in Reclaimed Water Distribution Systems
- C3 – Safety and Suitability of Irrigation of Edible Crops with Recycled Water

Industrial Reuse

- A2 – Beneficial Use of Coalbed Methane Produced Water: Water Quality Issues and Treatment Strategies
- D2 – UF-RO Pilot Study at a Water Reclamation Plant in Singapore
- D2 – Finding Reclaimed Water Customers Round 2 – A Different Approach
- D2 – Addressing Special Needs of Industrial Customers to Facilitate Recycled Water Use
- D2 – Valuing Water in the Land of 10,000 Lakes – Reclaimed Water for Minnesota's Industries
- D2 – Municipal-Industrial Partnership for Reuse: A Case Study in the Northeast U.S.
- D2 – Water Reuse at Palo Verde Nuclear Generating Station
- C5 – Strategies to Minimize Impacts of a Microchip Manufacturer on a Potable Water Reuse System

Innovative Reuse Applications

- S2 – Transitioning Effluent Management from Direct Recharge to Achieving 100% Beneficial Reuse in Surprise, Arizona
- S2 – Feasibility Study for Aquifer Recharge and Subsequent Indirect Potable Reuse in Southwest Florida
- S3 – Removal of EDCs in Septic Systems Designed for Production of Non-Potable Reuse Water
- C1 – Reclaimed Water Without Pipelines? Evaluation of a Potential Satellite Wastewater Plant
- C1 – Texas Style Subsidence Credit Solutions – How Reuse Solved One Utility's Problem
- C1 – Qingdao Ecoblock Sustainable Development
- C1 – Hybrid Forward Osmosis Process for Treatment of Impaired Water During Desalination
- D1 – Innovative Thinking and Adaptability for Reuse System Integration in the City and County of Broomfield, CO
- A2 – Using Reclaimed Water and Desalination to Reduce the Effects of the 2007 and 2008 Drought in South Florida
- B2 – Water Reuse and Water Recharge for the City of Fort Lauderdale, Florida: Taking a Holistic Approach in Meeting Alternative Water Supply Needs
- B2 – Photo-Cat: An Upstream, Multi-Barrier AOP Approach to Reduce RO and NF Membrane Fouling
- D2 – Finding Reclaimed Water Customers Round 2 – A Different Approach
- D2 – Addressing Special Needs of Industrial Customers to Facilitate Recycled Water Use
- B3 – Using SAT to Address Public Concerns of Beneficial Reuse in a Sole Source Aquifer
- C3 – Making High Quality Reclaimed Water: Challenges with RO Permeate Stabilization
- A4 – A Novel Hybrid Membrane Processes for Minimizing Concentrated Brine Created During Inland Desalination
- B4 – Pilot Testing of a High Rate Disk Filter for Title 22 Approval
- C4 – Don't Waste a Drop – How Marco Island is Maximizing Water Resources



Presentations by Subject Area

- B5 – An Empirical Method for Accurately Sizing Wastewater UV Reactors for Disinfection of any Microorganism
- C5 – Strategies to Minimize Impacts of a Microchip Manufacturer on a Potable Water Reuse System
- C5 – The PURewater Solution: Cloudcroft, NM Indirect Potable Reuse Project
- C6 – Matching Service Level to Product Quality

Membranes and MBR

- S1 – Sustainable Water Supplies Across the Pacific: A Tale of Two Countries
- S1 – Results from a Year-Long Seawater Desalination Pilot Program in San Francisco Bay
- S2 – Startup of an 86-MGD Advanced Water Purification Facility
- C1 – Hybrid Forward Osmosis Process for Treatment of Impaired Water during Desalination
- A2 – Comparison of Parallel RO, NF and EDR Desalination Technology After Nine Years of Operation
- A2 – Hedging Your Bets: Designing a Water Treatment Facility in an Uncertain Water Use Permitting Environment
- B2 – Assessing Impact of Wastewater Treatment and Effluent Quality on Tertiary Membrane Design
- B2 – Start-up & Operations Results at an Australian Advanced Water Reclamation Plant
- B2 – The Osmotic Membrane Bioreactor: A Dual Barrier System for Potable Water Reuse
- B2 – Ground Water Recharge in South Florida: A Pilot Study of High-Level Wastewater Treatment Technologies
- B2 – Water Reuse and Water Recharge for the City of Fort Lauderdale, Florida: Taking a Holistic Approach in Meeting Alternative Water Supply Needs
- B2 – Photo-Cat: An Upstream, Multi-Barrier AOP Approach to Reduce RO and NF Membrane Fouling
- C2 – Water Scarcity Drives the Need for Advanced Water Treatment Plants
- D2 – UF-RO Pilot Study at a Water Reclamation Plant in Singapore
- D2 – Municipal-Industrial Partnership for Reuse: A Case Study in the Northeast U.S.
- A4 – A Novel Hybrid Membrane Processes for Minimizing Concentrated Brine Created During Inland Desalination
- A4 – Brine Minimization/Salt Management Using VSEP® Technology to Maximize Water Recovery
- C5 – Water Quality Through Advanced Wastewater Treatment (AWT) Facilities and Recharge Modeling (WateReuse Foundation 06-019)
- A6 – Design Optimization of Anti-Fouling Micromixers for Reverse Osmosis Membranes
- A6 – Surface Water Augmentation-Integration of Desalination

Microconstituents (pharmaceuticals, personal care products, endocrine disrupters, etc.)

- S2 – Feasibility Study for Aquifer Recharge and Subsequent Indirect Potable Reuse in Southwest Florida
- S3 – Performance Monitoring in Indirect Potable Reuse to Assure Proper Removal of Regulated and Unregulated Trace Organic Chemicals
- S3 – EDC Removal: A Comparison of GAC Sorption and UV/Peroxide Oxidation Pilot Studies
- S3 – Removal of EDCs in Septic Systems Designed for Production of Non-Potable Reuse Water
- S3 – Removal of PhACs, EDCs, and Estrogenicity a Pilot-Scale Photocatalysis Treatment Plant
- S3 – Removal of Biochemically Active Compounds from Wastewater Effluent Using UV/H2O2 Treatment
- S3 – The Use of Surrogates and Indicators to Assess the Performance of Soil Aquifer Treatment Systems Treating Recycled Water
- B1 – Quantitative Health Risk Assessment for Indirect Potable Water Reuse
- B1 – Safe Exposure Levels of Selected PPCPs, EDCs and Other Chemicals of Interest in Recycled Water
- B1 – Occurrence and Relevance of EDCs and Pharmaceuticals in Water

- B1 – Bromate Research Progress and Contaminants in Highly Treated Waters
- B5 – Impact of Sequential & Preformed Chloramine Dosing on NDMA Formation in Repurified Wastewater
- B5 – Implementing an Effective UV Advanced Oxidation Process
- B5 – The Validation of Ozone for Reclaimed Water Disinfection
- C5 – Water Quality Through Advanced Wastewater Treatment (AWT) Facilities and Recharge Modeling (WateReuse Foundation 06-019)

Operations and Operator Issues

- S2 – Startup of an 86-MGD Advanced Water Purification Facility
- S2 – The GWR System is Now Successfully Purifying Water
- D1 – Monitoring Water Quality in Seasonal Storage Reservoirs – without Going Bright Green
- B2 – Assessing Impact of Wastewater Treatment and Effluent Quality on Tertiary Membrane Design
- B2 – Start-up & Operations Results at an Australian Advanced Water Reclamation Plant
- C2 – Water Supply Planning: The Recycled Water Component
- C3 – Growth of Opportunistic Pathogens and Biofilm formation in Reclaimed Water Distribution Systems
- B5 – Disinfection Design and Operation Implications for Facilities Practicing Reuse
- C6 – Matching Service Level to Product Quality

Planning for Water Reuse

- S2 – IPR – Its Time Has Come!
- S2 – Transitioning Effluent Management from Direct Recharge to Achieving 100% Beneficial Reuse in Surprise, Arizona
- S4 – The Importance of the Tucson Water Regional Reclaimed Water System to the Economic Vitality of the City of Tucson-Pima County Region
- S4 – Satellite Versus Regional Treatment: A Big Choice
- C1 – Texas Style Subsidence Credit Solutions – How Reuse Solved One Utility's Problem
- C1 – Qingdao Ecoblock Sustainable Development
- D1 – Monitoring Water Quality in Seasonal Storage Reservoirs – without Going Bright Green
- D1 – Keeping Up with the Jones' Irrigation Demands
- A2 – Hedging Your Bets: Designing a Water Treatment Facility in an Uncertain Water Use Permitting Environment
- A2 – Using Reclaimed Water and Desalination to Reduce the Effects of the 2007 and 2008 Drought in South Florida
- C2 – In the Beginning – Planning for the South District Water Reclamation Facility
- C2 – Water Scarcity Drives the Need for Advanced Water Treatment Plants
- C2 – Water Supply Planning: The Recycled Water Component
- C2 – Satisfying Multiple Competing Objectives on the First Nonpotable Municipal-Wide Irrigation System in New Jersey
- C2 – Using Technology to Administer a Reclaimed Water Program
- C2 – "Honestly...What's the reUse?"
- D2 – Finding Reclaimed Water Customers Round 2 – A Different Approach
- D2 – Valuing Water in the Land of 10,000 Lakes – Reclaimed Water for Minnesota's Industries
- D2 – Water Reuse at Palo Verde Nuclear Generating Station
- A3 – Developing a Groundwater Desalination Facility: A Road Map for Communities
- A3 – Climate Action Plans for Water Recycling and Desalination Facilities
- A4 – Please Pass the Salt: Feasibility for Concentrate Disposal in Depleted Oil and Gas Fields
- B4 – Comparison of Alternative Treatment Trains for Indirect Potable Reuse: Balancing Environmental, Economic, and Health Concerns
- B4 – Reuse Utility is Natural Selection for Environmentally Friendly Master Planned Community
- C4 – Integrating Wastewater Reuse Systems into Municipal Watershed Management Strategy
- C4 – Solving Issues of Water Supply and Quality through Optimal Urban Reuse Applications: A Case Study of the Lower St. Johns River



Presentations by Subject Area

- C5 – Leading Australia's Water Security Solutions for Inland Cities and Towns: A Case Study from the National Capital-Canberra
- C5 – Reuse for Potable Water Supply Augmentation in the Trinity River Basin
- C5 – The PURewater Solution: Cloudcroft, NM Indirect Potable Reuse Project
- B6 – Recycled Water is the Key to Resolving Regional Water Issues in Monterey, California
- B6 – Reuse Water as a Texas Viable Water Supply Strategy
- C6 – Southeast Texas Trends in Urban Reuse – Some Surprising Numbers
- C6 – Water Reuse Planning for Military Installations
- C6 – Reducing Your Carbon Footprint with Recycled Water
- D6 – Evolution of the Use of Constructed Wetlands for Beneficial Reuse in Florida

Public Education and Outreach

- C5 – Leading Australia's Water Security Solutions for Inland Cities and Towns: A Case Study from the National Capital-Canberra
- B6 – Water Reuse to Offset Growth-Driven Water Scarcity in the Southwest: From Supply Augmentation to Substitution
- D6 – The Chino Creek Wetlands and Educational Park Project

Regulatory, Institutional, and Legal Issues

- S2 – IPR – Its Time Has Come!
- B1 – Quantitative Health Risk Assessment for Indirect Potable Water Reuse
- C2 – Satisfying Multiple Competing Objectives on the First Nonpotable Municipal-Wide Irrigation System in New Jersey
- D2 – Valuing Water in the Land of 10,000 Lakes – Reclaimed Water for Minnesota's Industries
- A3 – Climate Action Plans for Water Recycling and Desalination Facilities
- B3 – Using SAT to Address Public Concerns of Beneficial Reuse in a Sole Source Aquifer
- A4 – Please Pass the Salt: Feasibility for Concentrate Disposal in Depleted Oil and Gas Fields
- B4 – Increasing California Title 22 Filter Loading Rate at Full-Scale Water Recycling Facilities: Effect on Removal of Particles and Inactivation of Pathogen Indicators
- C5 – Strategies to Minimize Impacts of a Microchip Manufacturer on a Potable Water Reuse System
- C5 – Reuse for Potable Water Supply Augmentation in the Trinity River Basin
- B6 – Recycled Water is the Key to Resolving Regional Water Issues in Monterey, California
- B6 – California Dreamin'? The State Climate for Water Recycling
- B6 – Reuse Water as a Texas Viable Water Supply Strategy
- B6 – Water Reuse to Offset Growth-Driven Water Scarcity in the Southwest: From Supply Augmentation to Substitution

Surface Water Augmentation for Potable Use

- S2 – IPR – Its Time Has Come!
- S3 – Removal of Biochemically Active Compounds from Wastewater Effluent Using UV/H₂O₂ Treatment
- C2 – "Honestly...What's the reUse?"
- D2 – UF-RO Pilot Study at a Water Reclamation Plant in Singapore
- B4 – Comparison of Alternative Treatment Trains for Indirect Potable Reuse: Balancing Environmental, Economic, and Health Concerns
- C4 – Integrating Wastewater Reuse Systems into Municipal Watershed Management Strategy
- C5 – Water Quality Through Advanced Wastewater Treatment (AWT) Facilities and Recharge Modeling (WateReuse Foundation 06-019)
- C5 – Leading Australia's Water Security Solutions for Inland Cities and Towns: A Case Study from the National Capital-Canberra
- C5 – Strategies to Minimize Impacts of a Microchip Manufacturer on a Potable Water Reuse System
- C5 – Reuse for Potable Water Supply Augmentation in the Trinity River Basin
- C5 – The PURewater Solution: Cloudcroft, NM Indirect Potable Reuse Project

- C5 – Micropollutant Treatment with UV-Oxidation at Colorado's First Indirect Potable Reuse Project
- A6 – Surface Water Augmentation-Integration of Desalination
- B6 – Reuse Water as a Texas Viable Water Supply Strategy

Treatment Technologies

- S1 – Application of Large-Diameter RO Membrane Elements for Desalination
- S2 – The GWR System is Now Successfully Purifying Water
- S3 – Performance Monitoring in Indirect Potable Reuse to Assure Proper Removal of Regulated and Unregulated Trace Organic Chemicals
- S3 – EDC Removal: A Comparison of GAC Sorption and UV/Peroxide Oxidation Pilot Studies
- S3 – Removal of EDCs in Septic Systems Designed for Production of Non-Potable Reuse Water
- S3 – Removal of PhACs, EDCs, and Estrogenicity a Pilot-Scale Photocatalysis Treatment Plant
- S3 – The Use of Surrogates and Indicators to Assess the Performance of Soil Aquifer Treatment Systems Treating Recycled Water
- S4 – Low-cost Treatment Technologies for Small-Scale Water Reclamation Plants (WateReuse Foundation 06-008)
- S4 – Satellite Versus Regional Treatment: A Big Choice
- C1 – Reclaimed Water Without Pipelines? Evaluation of a Potential Satellite Wastewater Plant
- C1 – Hybrid Forward Osmosis Process for Treatment of Impaired Water During Desalination
- A2 – Beneficial Use of Coalbed Methane Produced Water: Water Quality Issues and Treatment Strategies
- B2 – Assessing Impact of Wastewater Treatment and Effluent Quality on Tertiary Membrane Design
- B2 – Start-up & Operations Results at an Australian Advanced Water Reclamation Plant
- B2 – The Osmotic Membrane Bioreactor: A Dual Barrier System for Potable Water Reuse
- B2 – Photo-Cat: An Upstream, Multi-Barrier AOP Approach to Reduce RO and NF Membrane Fouling
- C2 – Water Scarcity Drives the Need for Advanced Water Treatment Plants
- D2 – Municipal-Industrial Partnership for Reuse: A Case Study in the Northeast U.S.
- B4 – Increasing California Title 22 Filter Loading Rate at Full-Scale Water Recycling Facilities: Effect on Removal of Particles and Inactivation of Pathogen Indicators
- B4 – Pilot Testing of a High Rate Disk Filter for Title 22 Approval
- B4 – Comparison of Alternative Treatment Trains for Indirect Potable Reuse: Balancing Environmental, Economic, and Health Concerns
- B4 – Reuse Utility is Natural Selection for Environmentally Friendly Master Planned Community
- C4 – Don't Waste a Drop – How Marco Island is Maximizing Water Resources
- A5 – Treatment Wetlands for Concentrate: Developments in Australia and Arizona
- B5 – A Blending of Old and New School for Reclaimed Water Disinfection
- B5 – Disinfection Design and Operation Implications for Facilities Practicing Reuse
- B5 – An Empirical Method for Accurately Sizing Wastewater UV Reactors for Disinfection of any Microorganism
- B5 – Implementing an Effective UV Advanced Oxidation Process
- B5 – The Validation of Ozone for Reclaimed Water Disinfection
- C5 – The PURewater Solution: Cloudcroft, NM Indirect Potable Reuse Project
- C5 – Micropollutant Treatment with UV-Oxidation at Colorado's First Indirect Potable Reuse Project
- A6 – Solarpump: A Solar-Driven System for Distilling and Transporting Water Using a Porous Material
- A6 – Design Optimization of Anti-Fouling Micromixers for Reverse Osmosis Membranes
- D6 – The Chino Creek Wetlands and Educational Park Project
- D6 – Oxnard California's Groundwater Recovery Enhancement and Treatment (GREAT) Program



Presentations by Subject Area

Urban Reuse, Golf Courses, Parks, Landscape, Residential

- S4 – The Importance of the Tucson Water Regional Reclaimed Water System to the Economic Vitality of the City of Tucson-Pima County Region
- S4 – Low-cost Treatment Technologies for Small-Scale Water Reclamation Plants (WaterReuse Foundation 06-008)
- C1 – Reclaimed Water Without Pipelines? Evaluation of a Potential Satellite Wastewater Plant
- C1 – Texas Style Subsidence Credit Solutions – How Reuse Solved One Utility's Problem
- C1 – Qingdao Ecoblock Sustainable Development
- D1 – Innovative Thinking and Adaptability for Reuse System Integration in the City and County of Broomfield, CO
- D1 – Keeping Up with the Jones' Irrigation Demands
- C2 – In the Beginning – Planning for the South District Water Reclamation Plant
- C2 – Water Supply Planning: The Recycled Water Component
- C2 – Satisfying Multiple Competing Objectives on the First Nonpotable Municipal-Wide Irrigation System in New Jersey
- C2 – “Honestly...What's the reUse?”
- B4 – Pilot Testing of a High Rate Disk Filter for Title 22 Approval
- B4 – Reuse Utility is Natural Selection for Environmentally Friendly Master Planned Community
- C4 – Integrating Wastewater Reuse Systems into Municipal Watershed Management Strategy
- C4 – Solving Issues of Water Supply and Quality through Optimal Urban Reuse Applications: A Case Study of the Lower St. Johns River
- C4 – Subsurface Drip Irrigation of Treated Effluent to Golf Course Fairways
- C4 – Don't Waste a Drop – How Marco Island is Maximizing Water Resources
- B6 – California Dreamin'? The State Climate for Water Recycling
- B6 – Reuse Water as a Texas Viable Water Supply Strategy
- C6 – Southeast Texas Trends in Urban Reuse – Some Surprising Numbers
- C6 – Water Reuse Planning for Military Installations

Water Quality Issues

- S2 – Tracer Study of Reclaimed Water in Artificial Recharge Systems
- S3 – Performance Monitoring in Indirect Potable Reuse to Assure Proper Removal of Regulated and Unregulated Trace Organic Chemicals
- S3 – EDC Removal: A Comparison of GAC Sorption and UV/Peroxide Oxidation Pilot Studies
- S3 – Removal of PhACs, EDCs, and Estrogenicity a Pilot-Scale Photocatalysis Treatment Plant
- S3 – Removal of Biochemically Active Compounds from Wastewater Effluent Using UV/H₂O₂ Treatment
- S3 – The Use of Surrogates and Indicators to Assess the Performance of Soil Aquifer Treatment Systems Treating Recycled Water
- B1 – Safe Exposure Levels of Selected PPCPs, EDCs and Other Chemicals of Interest in Recycled Water
- B1 – Occurrence and Relevance of EDCs and Pharmaceuticals in Water
- B1 – Bromate Research Progress and Contaminants in Highly Treated Waters
- D1 – A Case Study of a Recycled Water Misconnection in Chula Vista, California
- A2 – Desalination Challenges in the Desert – Softening of RO Concentrate for Large Inland Water Treatment Plant
- B2 – Ground Water Recharge in South Florida: A Pilot Study of High-Level Wastewater Treatment Technologies
- D2 – Addressing Special Needs of Industrial Customers to Facilitate Recycled Water Use
- C3 – Growth of Opportunistic Pathogens and Biofilm formation in Reclaimed Water Distribution Systems
- C3 – Making High Quality Reclaimed Water: Challenges with RO Permeate Stabilization
- C3 – Safety and Suitability of Irrigation of Edible Crops with Recycled Water

- B4 – Increasing California Title 22 Filter Loading Rate at Full-Scale Water Recycling Facilities: Effect on Removal of Particles and Inactivation of Pathogen Indicators
- C4 – Solving Issues of Water Supply and Quality through Optimal Urban Reuse Applications: A Case Study of the Lower St. Johns River

