

WATER RECYCLING: A CAPITAL OPPORTUNITY



WATEREUSE CALIFORNIA

ANNUAL CONFERENCE • 2012
SHERATON GRAND SACRAMENTO
SACRAMENTO, CA • MARCH 25-27, 2012



CONFERENCE REGISTRATION





We invite you to join us for California's preeminent conference devoted to water reuse and desalination where more than 400 leaders from California's water reuse and desalination industry are expected to attend. The 2012 WaterReuse California Annual Conference will be held March 25-27, 2012 at the Sheraton Grand Hotel in Sacramento, California. The conference is designed for individuals, organizations, and agencies that are associated with or interested in the design, management, operation, and use of water recycling facilities and projects in California. The conference will feature more than 50 technical presentations, poster presentations, a regulatory roundtable session, a statutory rewrite and groundwater recharge regulations plenary session, an Environmental & Water Resources Institute session, a technical tour, receptions, an awards luncheon, the annual Gordon Cologne Breakfast, and the ever popular exhibition component.

The WaterReuse Association is a nonprofit organization whose mission is to advance the beneficial and efficient uses of high-quality, locally produced, sustainable water sources for the betterment of society and the environment through advocacy, education and outreach, research, and membership. Across the United States and the world, communities face water supply challenges due to increasing demand, drought, depletion and contamination of groundwater, and dependence on single sources of supply. WaterReuse addresses these challenges by working with local agencies to implement water reuse and desalination projects that resolve water resource issues and create value for communities.

Core Topic Areas

- Current Regulatory, Policy & Legal Issues
- Recycled Water: What's in it for Northern California
- Customer Experiences with Reuse
- Climate Change Solutions
- Creative Site Retrofits
- Desalination in California
- Salinity and Nutrient Management
- Indirect and Direct Potable Reuse
- Economics & Financing
- Environmental Enhancement with Reuse
- Implementing Small Reuse Systems
- Operation and Maintenance Experiences
- Planning and Program Issues
- Customer Marketing: Reaching New Demands
- Public Outreach & Education
- Research
- Sustainability
- Innovative Treatment Technologies

Who Will Attend

- Academic Institutions
- Advocacy Groups
- Consulting Engineering Firms
- Desalination Industry
- Environmental Organizations
- Government Officials
- Manufacturers
- Regulators
- Suppliers
- Water and Wastewater Agencies
- Water Reuse Industry

Sunday, March 25, 2012

12:00 pm - 5:30 pm	Registration
1:00 pm - 5:00 pm	Pre-Conference Workshops WS1: California's Water Challenge – The San Francisco Bay Delta Gridlock WS2: Commercial, Industrial, and Institutional Recycled Water Use and Outreach WS3: Talking About the Water Cycle: the Right Words and Context
3:00 pm - 3:30 pm	Networking Break
3:00 pm - 3:30 pm	Poster Sessions
3:00 pm - 7:00 pm	Exhibit Hall Open
5:30 pm - 7:00 pm	Welcome Reception

Monday, March 26, 2012

7:30 am - 3:30 pm	Registration
7:30 am - 3:30 pm	Exhibit Hall Open
7:30 am - 8:30 am	Continental Breakfast
8:30 am - 9:30 am	Welcome, Keynote Address, and Reuse Survey Highlights
9:30 am - 10:00 am	Networking Break
9:30 am - 10:00 am	Poster Sessions
10:00 am - 11:30 am	Technical Sessions A1: Current Regulations in Northern California B1: Indirect Potable Reuse – Part I C1: Public Outreach D1: Economics
11:30 am - 1:00 pm	Awards Luncheon and Annual Membership Meeting
1:15 pm - 3:00 pm	Statutory Rewrite and Groundwater Recharge Regulations Session
3:00 pm - 3:30 pm	Networking Break
3:00 pm - 3:30 pm	Poster Sessions
3:30 pm - 5:00 pm	Technical Sessions A2: Agriculture Reuse Case Study in Monterey County B2: Indirect Potable Reuse – Part 2 C2: Regulatory Roundtable D2: Economics and Planning
5:30 pm - 7:00 pm	President's Reception

Tuesday, March 27, 2012

7:30 am - 12:00 pm	Registration
7:30 am - 9:00 am	Gordon Cologne Breakfast
9:00 am - 3:00 pm	Exhibit Hall Open
9:00 am - 11:30 am	Technical Sessions A3: Current Regulations in Southern California B3: Desalination & Salinity – Part I C3: Small Systems D3: Environmental & Water Resources Institute Session – Part I
10:00 am - 10:30 am	Networking Break
10:00 am - 10:30 am	Poster Sessions
11:30 am - 1:00 pm	Luncheon Presentation
1:00 pm - 4:30 pm	Technical Sessions A4: Operation & Maintenance B4: Desalination & Salinity – Part 2 C4: Innovative Treatment D4: Environmental & Water Resources Institute Session – Part 2
1:30 pm - 5:00 pm	Sacramento Regional Wastewater Treatment Plant - Advanced Treatment Technology Pilot Project Technical Tour
2:30 pm - 3:00 pm	Networking Break
2:30 pm - 3:00 pm	Poster Sessions

Pre-Conference Workshops

WS1: California's Water Challenge – The San Francisco Bay Delta Gridlock

Sunday, March 25, 2012

1:00 pm – 5:00 pm

Fee: \$75

Can it be solved next year? A panel of leading experts and policy makers will discuss the 50 year status of restoration of the largest estuary on the West Coast that provides drinking water to over 25 million residents in California. The Bay Delta Conservation Plan proposes a \$12 to \$15 billion project to fix it with habitat restoration and build new facilities that address the risk of earthquakes, floods and climate change. This workshop will provide background on the history and current issues in operating Delta facilities, a summary and discussion on fishery issues, discussion on the Delta Stewardship Council and what their plan will accomplish, how the water supply/Delta facilities and environmental restoration will be paid for, and review of the status of the Bay Delta Conservation Plan.

WS2: Commercial, Industrial, and Institutional Recycled Water Use and Outreach

“Help Us Help You Ensure Water Supply Reliability through the Expanded Use of Recycled Water”

Sunday, March 25, 2012

1:00 pm – 5:00 pm

Fee: \$75

This workshop, organized by the WaterReuse Industrial Reuse Committee, will discuss methods and opportunities to assist Commercial, Industrial, and Institutional (CII) customers to use recycled water especially for internal uses such as cooling towers and process applications. The case studies and technical solutions presented should help CII customers overcome any lingering doubts about their ability to successfully use recycled water. The workshop is also designed to demonstrate to water agencies how they can better help their local businesses ensure a reliable water supply for their communities. In addition, the workshop will present an overview of the progress made by the “CII Task Force” convened by the State Legislature as part of the California Water Conservation “20% by 2020” program to develop best management practices (BMPs) for CII water users.



WS3: Talking About the Water Cycle: the Right Words and Context

Sunday, March 25, 2012

1:00 pm – 5:00 pm

Fee: \$75

Two recent studies about the context and terminology of water reuse provide valuable information for the water industry as we respond to the need to increase water reuse as a sustainable water management strategy. This workshop will provide background information on the studies including methodology, findings, and recommendations, in addition to international implications of the research and discussion of the need to seize the growing momentum to reframe industry and public thinking about wastewater and water reuse. A key component of this workshop is an interactive brainstorming dialogue with workshop participants to define actionable items to implement the study recommendations.

Technical Tour

While you are in Sacramento for the conference, we would like to invite you to take advantage of a unique opportunity – register for a local facility tour!

Sacramento Regional Wastewater Treatment Plant – Advanced Treatment Technology Pilot Project Technical Tour

Tuesday, March 27, 2012

1:30 pm – 5:00 pm

Fee: \$45

Sacramento Regional Wastewater Treatment Plant (SRWTP)

The Sacramento Regional County Sanitation District (SRCSD) provides regional wastewater conveyance treatment and disposal services to residential, industrial and commercial customers throughout unincorporated Sacramento County; the cities of Citrus Heights, Elk Grove, Folsom, Rancho Cordova, Sacramento and West Sacramento; and the communities of Courtland and Walnut Grove. The wastewater travels through a network consisting of 168 miles of interceptor pipelines and pump stations to the Sacramento Regional Wastewater Treatment Plant (SRWTP) in Elk Grove, where approximately 150 million gallons of wastewater are treated each day and safely discharged into the Sacramento River.

The SRWTP is located on 900 acres of a 3,550-acre site between I-5 and Franklin Boulevard in Elk Grove. The remaining 2,650 acres serve as a “bufferland” between the treatment plant and nearby residential areas. The SRWTP co-exists with and provides a home for abundant wildlife and riparian habitat.

SRCSD owns and operates the SRWTP under a National Pollutant Discharge Elimination System (NPDES) permit from the Central Valley Regional Water Quality Control Board (CVRWQCB). The SRWTP currently provides secondary treatment using an activated sludge process. Influent is screened and flows through a primary sedimentation process. Next, oxygen is added to remove the lighter organic particles. Clean water decants off the top of the secondary clarifiers, and chlorine is added while the wastewater travels through a two-mile outfall pipeline to the Sacramento River. Before entering the river, sulfur dioxide is added to neutralize the chlorine.



Advanced Treatment Technology Pilot Project (ATTP)

On December 9, 2010, the CVRWQCB adopted new discharge requirements for the SRWTP that are stricter than the existing secondary treatment process is capable of meeting. The new permit requires ammonia removal and filtration, so SRCSD is conducting the Advanced Treatment Technology Pilot Project (ATTP) to select the best combination of treatment technologies for the final design that will meet the new permit requirements.

The ATTP is being conducted with air activated sludge (AAS) for nitrogen removal, followed by tertiary filtration and disinfection. The project involves granular media filtration (GMF), GMF with pre-ozonation, and membrane filtration as viable tertiary filtration technologies. Chlorination, ozonation, and ultraviolet disinfection will be evaluated as viable disinfection technologies.

The testing will occur during a 10-month period, and is designed to confirm process performance and provide information for full-scale design. The goals of the testing are to:

- Demonstrate permit compliance of AAS, filtration and disinfection processes;
- Demonstrate Title 22 equivalency for filtration and disinfection processes;
- Obtain full-scale design parameters for the AAS, filtration and disinfection processes;
- Where possible, recommend a treatment train alternative for full-scale implementation based on performance reliability and business case evaluation (BCE) results; and
- Identify additional pilot testing activities for consideration for Phase 2 testing to further screen technologies and/or that could result in potential cost savings at full-scale through optimization.

Overview of Events

Keynote Address

Integrated Water Management – Lessons from Australia

Rob Skinner, former CEO Melbourne Water, Professorial Fellow Centre for Water Sensitive Cities, Monash University, Australia

Rob will provide insights from his experience as a water sector leader in Australia into:

- Urban water reforms and key trends in water sensitive design in capital cities; and
- Emerging developments in integrated water management, including decentralized water supply systems, water planning and the water/energy/carbon nexus.

Awards Luncheon and Annual Membership Meeting

Monday, March 26, 2012

11:30 am – 1:00 pm

The Awards Luncheon recognizes excellent water reuse, reclamation, and recycling projects and practitioners. The California Section of the WaterReuse Association will present the following Awards of Excellence during the luncheon on Tuesday:

- Recycled Water Agency of the Year (Large, Medium, and Small)
- Recycled Water Community Outreach/Public Education Program of the Year
- Recycled Water Advocate of the Year
- Recycled Water Customer of the Year
- Recycled Water Staff Person of the Year

The California Section of the WaterReuse Association will also conduct its annual membership meeting during this luncheon.

Statutory Rewrite and Groundwater Recharge Regulations Plenary Session

Monday, March 26, 2012

1:15 pm – 3:00 pm

Draft Groundwater Recharge Regulations

In November, 2011, the California Department of Public Health (CDPH) issued draft groundwater recharge regulations for informal stakeholder review. The revisions from the 2008 version represent a substantial shift toward science-based regulation and are expected to profoundly influence existing and future potable reuse projects in California and elsewhere. Already, nearly 20 percent of California's population is connected to a water system in which potable reuse is an element of its water

supply portfolio. This session will include a description of the revised draft regulations from experts who have been engaged in review and comment on the new draft regulations, an update on CDPH's process (which calls for formal adoption of the regulations in a process set to begin in 2012), and a chance for you to engage in a discussion with the experts about the regulations and their expected effect on potable reuse.

Legislation to Revise California's Water Recycling Statutes

WaterReuse California has undertaken a major initiative to simplify, consolidate, clarify and reform California's water recycling statutes. The legislation is expected to bring together all relevant code sections into a new Water Recycling Code to highlight the importance of recycled water as a water supply source while continuing to protect public health and the environment. Important reform elements being considered include establishing a treatment threshold that would produce a product that is not considered a waste. Revisions to permitting mechanisms are also being considered. WaterReuse California's team that has developed and is working for passage of this legislation will describe and discuss it with session participants. Join the conversation about how to shape this legislation so recycled water can best serve the State's needs.

Gordon Cologne Breakfast

Tuesday, March 27, 2012

7:30 am – 9:00 am

Sacramento is the perfect location for this year's Gordon Cologne Breakfast, honoring Judge Gordon Cologne, author of the Porter-Cologne Act and the first lobbyist for the WaterReuse Association. The popular session includes the presentation of the annual Gordon Cologne Award which recognizes individuals who have made a significant contribution to the legislative or regulatory advancement of water recycling in California.

This year we look forward to a high-tech hook-up with Gordon Cologne himself and several presentations from state policy makers about the issues surrounding recycling in the Capital city's legislative and regulatory arenas.

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3:00 pm – 7:00 pm	Exhibit Hall Open
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8:30 am – 9:30 am	Welcome, Keynote Address, and Reuse Survey Highlights
9:30 am – 10:00 am	Networking Break
9:30 am – 10:00 am	Poster Sessions

	A1: Current Regulations in Northern California	B1: Indirect Potable Re- use – Part 1	C1: Public Outreach	D1: Economics
10:00 am – 10:30 am	Results, Challenges, and Future Approaches to California’s Recycled Water Survey <i>Richard Mills, California Department of Water Resources</i>	Costs and Benefits of “Fail-Safe” Systems in Direct Potable Water Reuse <i>Erin Mackey, Carollo Engineers</i>	Developing Messages Regarding Potable Reuse <i>Marty Grimes, Santa Clara Valley Water District & Molly O’Shaughnessy, EMC Research</i>	The Development of an Economic/Financial Analyses Guidance and Tools for Water Recycling Projects <i>Gerald Horner, California State Water Resources Control Board</i>
10:30 am – 11:00 am	Rethinking Traditional Concepts of Recycled Water Ownership, Use and Conveyance <i>Craig Johns, California Resource Strategies</i>	Emerging Contaminant Removal via Conventional Activated Sludge and Membrane Bioreactor Systems – A True Comparison <i>Ufuk Erdal, CH2M HILL</i>	New Ways to Engage the Community: Interactive Experiences using iPad Tablets and Issues-Based Web Portals <i>Melanie Mow Schumacher, City of Santa Cruz and Soquel Creek Water District</i>	An Economic Analysis Guidance Document for Water Recycling Projects in California <i>Josue Medellin-Azuara, University of California, Davis</i>
11:00 am – 11:30 am	Finding the Optimum Potable Reuse Solution in Northern California - Santa Clara Valley Water District’s Feasibility Analysis <i>Tracy Ligon, Santa Clara Valley Municipal Water District</i>	Online Monitoring of Process Performance for Indirect Potable Reuse Treatment Trains <i>Daniel Gerrity, Trussell Technologies</i>	City of San Diego’s Advanced Water Purification Facility Tour Experience <i>Marsi Steirer, City of San Diego Public Utilities Department</i>	Sustainable Alternatives for Recycled Water Delivery in the Central Valley – A Case Study <i>Mallika Ramanathan, RMC Water and Environment</i>



11:30 am – 1:00 pm	Awards Luncheon and Annual Membership Meeting			
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3:00 pm – 3:30 pm	Poster Sessions			
	A2: Agriculture Re- use Case Study in Monterey County	B2: Indirect Potable Re- use – Part 2	C2: Regulatory Roundtable	D2: Economics and Planning
3:30 pm – 4:00 pm	Embracing Agricultural Reuse Integration to meet California's Recycled Water Goals – A Case Study and Panel Discussion <i>Art Baggett, Kennedy/Jenks Consultants</i>	OCWD's Mid-Basin Injection Demonstration: An Innovative Recycled Water Recharge Project <i>Jason Dadakis, Orange County Water District</i>	Key regulatory decision-makers will each describe their agency's current initiatives and challenges, and respond to audience questions about regulatory issues.	Life Cycle Cost and Inventory Assessment for Reuse of Tertiary Treated Municipal Wastewater in Power Plant Cooling Systems <i>Ranjani Theregowda, Carnegie Mellon University</i>
4:00 pm – 4:30 pm	<i>Kevin O'Brien, Monterey County</i> <i>Dale Huss, Ocean Mist Farms</i> <i>Curtis Weeks, Monterey Country Water Resource Agency</i>	Pilot-Scale UV/H ₂ O ₂ and O ₃ /H ₂ O ₂ AOP Performance Comparison for Groundwater Recharge <i>Sangam Tiwari, Trussell Technologies</i>	<i>Jon Bishop, Water Resources Control Board</i> <i>Leah Godsey Walker, California Department of Public Health</i>	Allocation Program to Enable Expansion of Recycled Water Urban Reuse <i>John Wuerth, Eastern Municipal Water District & Bruce Davis, Albert A. Webb Associates</i>
4:30 pm – 5:00 pm	<i>Bob Holden, Monterey Regional Water Pollution Control Agency</i>	Trace Organic Compound Removal at Clark County: Lessons Learned from an Indirect Potable Reuse System <i>Douglas Drury, Clark County Water Reclamation District</i>		Beyond Irrigation: Approaches to Identify and Serve Industrial Customers <i>Kraig Erickson, RMC Water and Environment</i>
5:30 pm – 7:00 pm	President's Reception			

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7:30 am – 12:00 pm	Registration			
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9:00 am – 3:00 pm	Exhibit Hall Open			
	A3: Current Regulations in Southern California	B3: Desalination & Salinity – Part I	C3: Small Systems	D3: Environmental & Water Resources Institute Session – Part 1
9:00 am – 9:30 am	<p>Recycled Water Proves not to be a Dry Subject in the Desert of Indio, CA</p> <p><i>Inge Wiersema, Carollo Engineers & Debra Kaye, City of Indio</i></p>	<p>CV-SALTS Implementing the Recycled Water Policy: Aligning Similar Policy Objectives</p> <p><i>Gary Carlton, Kennedy/Jenks Consultants & Pamela Creendon, Central Valley Regional Water Quality Control Board</i></p>	<p>Economics of Sustainable Reuse in the Napa Valley</p> <p><i>Graham Wadsworth, Town of Yountville & Theodore Whiton & Mary Grace Pawson, GHD</i></p>	<p>PANEL DISCUSSION: Current Status and Risks to California’s Baseline Hydrology</p> <p>How is the Hydrologic Baseline Changing and What are the Implications to Water Users?</p> <p><i>Jeff McDonnell, Oregon State University (invited)</i></p> <p><i>Levi Brekke, Bureau of Reclamation</i></p> <p><i>Thomas Painter, NASA</i></p>
9:30 am – 10:00 am	<p>Advanced Water Purification: Past, Present and Future</p> <p><i>Greg Bradshaw, RMC Water and Environment</i></p>	<p>Camp Pendleton’s Salt and Nutrient Management Plan - Impact on the Use of Recycled Water</p> <p><i>Robert Beggs, Brown and Caldwell</i></p>	<p>Permitting the Obvious? A Recycled Water Success Story in Hermiston, Oregon</p> <p><i>Mark Cullington, Kennedy/Jenks Consultants</i></p>	<p><i>Jeff McDonnell, Oregon State University (invited)</i></p> <p><i>Levi Brekke, Bureau of Reclamation</i></p> <p><i>Thomas Painter, NASA</i></p>
10:00 am – 10:30 am	Networking Break			<i>Thomas Painter, NASA</i>
10:00 am – 10:30 am	Poster Sessions			<i>Katharine Hayhoe, Texas Tech University and ATMOS Research (invited)</i>
10:30 am – 11:00 am	<p>Securing New Water Sources: Groundwater Replenishment Master Planning for the City of Los Angeles</p> <p><i>Jennifer Thompson, CDM</i></p>	<p>The Impact of Salt and Nutrient Management Plans in the Los Angeles Region: A Regulatory Perspective</p> <p><i>Ginachi Amah & Elizabeth Erickson, Los Angeles Regional Water Quality Control Board</i></p>	<p>North Bay Water Reuse Program</p> <p><i>Kevin Booker, Sonoma County Water Agency & Andria Loutsch, CDM</i></p>	<p><i>Martha Conklin, University of California, Merced (invited)</i></p>
11:00 am – 11:30 am	<p>Challenges and Accomplishments of the Inland Empire Utilities Agency Regional Recycled Water Program</p> <p><i>Sylvie Lee, Inland Empire Utilities Agency</i></p>	<p>Sustainable Treatment of Inland Saline Waters</p> <p><i>Karl Longley, California Water Institute</i></p>	<p>Fish Versus Frost - Using Recycled Water to Preserve Ukiah Valley’s Lifestyle</p> <p><i>Tim Eriksen, City of Ukiah & Tracy Clinton, Carollo Engineers</i></p>	
11:30 am – 1:00 pm	Luncheon Presentation			



	A4: Operation & Maintenance	B4: Desalination & Sa- linity – Part 2	C4: Innovative Treatment	D4: Environmental & Water Resources Institute Session – Part 2
1:00 pm – 1:30 pm	Development of a County-Wide Dual Plumbed Guide for San Diego <i>Elmer Alex, Winzler & Kelly</i>	Pretreatment Requirements and Trends for Desalination <i>Joseph Wong, Brown and Caldwell</i>	The Suitability of Nitrification for Reliable Disinfection of Recycled Water Using Free-Chlorine <i>Gordon Williams, Trussell Technologies</i>	PANEL DISCUSSION: Adaptations and Required Improvement What are the Suite of Actions that are being Implemented in Meeting those Threats?
1:30 pm – 2:00 pm	Going “Green” Utilizing a Pretreatment Process for Recycled Water Use in Cooling Towers <i>Joel Bowdan, RBF Consulting</i>	Increasing Your Recycled Water Supply Through TDS Reduction <i>Gregg Cummings, Kennedy/Jenks Consultants</i>	Improving Groundwater Recharge: What to do to Reduce Basin Fouling <i>Greg Bradshaw, RMC Water and Environment</i>	<i>Paul Fleming, Seattle Public Utilities</i> <i>Robert Skinner, Melbourne Water (invited)</i> <i>Francisco Cubillo, Canal de Isabel II (invited)</i>
2:00 pm – 2:30 pm	The Time for Interchangeable Filtration Modules is Here <i>Scott Lacy, Separation Processes</i>	Novel BWRO System Design Solution for Highly Variable Feed Water <i>Erik Tynes, GHD Pty. Ltd.</i>	Overcoming Engineering and Full-Scale Testing Challenges in Validating the Performance of a UV Treatment Facility Expansion <i>Sudhir Mohleji, Elsinore Valley Municipal Water District & Azadeh Rahvarian, MWH</i>	<i>Paul Reiter, International Water Association</i>

1:30 pm – 5:00 pm	Sacramento Regional Wastewater Treatment Plant - Advanced Treatment Technology Pilot Project Technical Tour			PANEL DISCUSSION: (CONTINUED) <i>Alvin Bautista, Los Angeles Department of Water & Power</i> <i>Jim Fiedler, Santa Clara Valley Water District</i> <i>Byron Buck, State and Federal Contractors Water Agency</i>
2:30 pm – 3:00 pm	Networking Break			
2:30 pm – 3:00 pm	Poster Sessions			
3:00 pm – 3:30 pm	Pulling It All Together - Lessons Learned in the Startup of a City's Entire Recycled Water System <i>Reymundo Trejo, Upper San Gabriel Valley Municipal Water District</i>	Groundwater Replenishment System RO Membrane Replacement – Looking Beyond Permeability and Salt Rejection <i>Tom Knoell, Orange County Water District</i>	Ozonation of a Non-Nitrified Secondary Effluent Before Water Reuse Treatment <i>Fredrick Gerringe, Trussell Technologies & Rajen Budhia, West Basin Municipal Water District</i>	
3:30 pm – 4:00 pm	Converting a Legacy Non-Potable Water Distribution System to 21st Century Recycled Water Standards <i>Brenda Meyer, Western Municipal Water District of Riverside County</i>	Environmental and Regulatory Considerations in Developing Seawater Desalination in California <i>Joe Monaco, Dudek</i>	Challenge Projects on Low Energy Treatment Schemes for Water Reuse <i>Andrew Salveson, Carollo Engineers</i>	
4:00 pm – 4:30 pm.	Operational and Maintenance Challenges; The Growing Pains of the Recycled Water System at Eastern Municipal Water District <i>Rebecca Rathbone, Eastern Municipal Water District</i>	Desalination: A Path to Reliability <i>John Ruetten, Resource Trends</i>	A Detailed Facility Planning at the Laguna County Sanitation District Water Reclamation Facility <i>Ufuk Erdal, CH2M HILL</i>	

Poster Presentations

Celebrating 50 Years of Excellence in Potable Reuse at the Montebello Forebay

Monica Gasca, Los Angeles County Sanitation Districts

Eastern Municipal Water District Recycled Water Program

Hossein Juybari, Eastern Municipal Water District

EPA 2012 Guidelines for Water Reuse—Progress Update

Robert Matthews, CDM

Novel Tracer Test Equipment for Systems with Short Detention Times

Greg Stanczak, Trussell Technologies

Optimization of the San Elijo Recycled Water Facility: High Quality Effluent For a Fraction of the Cost

Brett Faulkner, Trussell Technologies

Pilot-Scale Tests on Using Tertiary Treated Wastewater as Makeup Water for Recirculating Cooling System in Power Plants

Wenshi Liu, University of Pittsburgh

Update of the Water Purification Demonstration Project

Marsi Steirer, City of San Diego Public Utilities Department

Water Recycling Protects our Environment While Conserving our Drinking Water Supply

Peter Rodriguez, Upper San Gabriel Valley Municipal Water District

Registration Information

Register early and save! The Early Bird Registration deadline is February 13, 2012. All registration forms accompanied by full payment and received on or before February 13, 2012 will qualify for the Early Bird Registration rate. All registrations received after February 13, 2012 will be charged an additional \$50.

The Advance Registration Deadline is March 12, 2012. Registrations received after March 12, 2012 will not be processed and you will need to register onsite at the Sheraton Grand Sacramento hotel. There will be an additional \$50 fee for all onsite registrations.

Badges and conference materials may be picked up at the conference registration desk onsite at the Sheraton Grand Sacramento hotel beginning March 25.

Confirmations

All registrants will receive a confirmation via e-mail once registration and full payment have been processed. This confirmation will also serve as your receipt of payment. Please allow two weeks from the time your registration is submitted until you receive your confirmation via e-mail.

Cancellation Policy

All cancellations must be submitted in writing by March 12, 2012 to qualify for a refund. A \$50 administrative fee will be deducted from all refund requests received by March 12, 2012. No refunds will be made after March 12, 2012. Refunds are not given for no-shows.

E-mail cancellation or substitution requests to:
ctharpe@watereuse.org.

Register Three Ways

Online

<http://www.watereuse.org/conferences/california/12>

Fax

(703) 548-5085

Faxed registration must be accompanied by full payment.

Mail

WaterReuse Association
1199 North Fairfax Street, Suite 410
Alexandria, VA 22314

WHAT'S INCLUDED WITH YOUR REGISTRATION

	Member	Nonmember	Full Time Student	One Day Registration
Technical Tours	No	No	No	No
Pre-Conference Workshops	No	No	No	No
Technical Sessions	Yes	Yes	Yes	Registered Day Only
Exhibit Hall	Yes	Yes	Yes	Registered Day Only
Welcome Reception (Sunday)	Yes	Yes	Yes	Sunday Only Registrants
Monday Breakfast	Yes	Yes	Yes	Monday Only Registrants
Awards Luncheon (Monday)	Yes	Yes	Yes	Monday Only Registrants
President's Reception (Monday)	Yes	Yes	Yes	Monday Only Registrants
Gordon Cologne Breakfast (Tuesday)	Yes	Yes	Yes	Tuesday Only Registrants
Luncheon and Presentation (Tuesday)	Yes	Yes	Yes	Tuesday Only Registrants

Advance Registration Form

Contact Information

Full Name		First Name (as it should appear on your badge)	
Title		Organization	
Address			
City	State / Province	Postal / ZIP Code	Country
Phone		Fax	
E-Mail Address		cc: E-Mail Address	

Additional Information

Please check that all apply

This is my first WaterReuse California Section Conference

I have the following dietary restrictions: _____

I am also a member of: ACWA AMTA AWWA IWA NACWA AMWA WEF

How did you hear about the 2012 WaterReuse California Annual Conference?

- | | | |
|--|--|---|
| <input type="checkbox"/> Registration Brochure | <input type="checkbox"/> Exhibitor/Sponsors Prospectus | <input type="checkbox"/> Blast E-mail from WaterReuse |
| <input type="checkbox"/> WaterReuse Website | <input type="checkbox"/> Print Ad in a Publication | <input type="checkbox"/> Blast E-mail from another Organization |
| <input type="checkbox"/> Colleague | <input type="checkbox"/> Speaker | <input type="checkbox"/> Other: _____ |

Why are you attending the 2012 WaterReuse California Annual Conference? *Check all that apply*

- | | | |
|--|---|---|
| <input type="checkbox"/> Quality Technical Program | <input type="checkbox"/> Networking Opportunities | <input type="checkbox"/> Education/Professional Development Hours |
| <input type="checkbox"/> Location/Hotel | <input type="checkbox"/> Exhibitor Opportunity | <input type="checkbox"/> Sponsorship Opportunity |
| <input type="checkbox"/> Speaker | <input type="checkbox"/> Other: _____ | |

Technical Sessions

Technical Sessions are included in your registration fee; there is no additional cost.

Please select one session per time slot.

Monday, March 26

- A1 B1 C1 D1
 A2 B2 C2 D2

Tuesday, March 27

- A3 B3 C3 D3
 A4 B4 C4 D4

WATEREUSE CALIFORNIA ANNUAL CONFERENCE

Registration Fees

Please circle the appropriate fees that apply

Registration Rates	Before 2/13/12	Between 2/14/12 – 3/12/12	Onsite Registration After 3/12/12
WaterReuse Association Members	\$350	\$400	\$450
Nonmembers	\$425	\$475	\$525
Full-Time Student	\$125	\$175	\$225
One Day Rate - Monday	\$200	\$250	\$300
One Day Rate - Tuesday	\$200	\$250	\$300

Pre-Conference Workshops		
WS1: California's Water Challenge – The San Francisco Bay Delta Gridlock		\$75
WS2: Commercial, Industrial, and Institutional Recycled Water Use and Outreach		\$75
WS3: Talking About the Water Cycle: the Right Words and Context		\$75

Technical Tour

Sacramento Regional Wastewater Treatment Plant \$45

Guest Tickets

Guest at Sunday's Welcome Reception \$35

Name of Guest _____

Guest at Monday's Awards Luncheon \$25

Name of Guest _____

Guest at Monday's President's Reception \$30

Name of Guest _____

Guest at Tuesday's Gordon Cologne Breakfast \$20

Name of Guest _____

Payment

Full payment must accompany your advance registration form. Your signature below authorizes the WaterReuse Association to charge your credit card the total payment and acknowledges that there are no refunds after March 12, 2012.

Check payable to the WaterReuse Association VISA MasterCard AMEX

Card Number _____

Expiration Date _____

Security Code _____

Billing Address _____

Print Cardholder Name _____

Total Due _____

Signature _____

Date _____

Mail or fax completed registration forms to:

WaterReuse Association
1199 North Fairfax Street, Suite 410
Alexandria, VA 22314

Fax (703) 548-5085
Faxed registration must be
accompanied by full payment.

WATEREUSE CALIFORNIA

ANNUAL CONFERENCE • 2012
SHERATON GRAND SACRAMENTO
SACRAMENTO, CA • MARCH 25-27, 2012



Travel Information

Hotel Accommodations

The 2012 WateReuse California Annual Conference will be held at the Sheraton Grand Sacramento in Sacramento, CA. The hotel is located in the beautifully restored Historic Public Market Building and situated in the heart of downtown Sacramento.

Special rates have been secured for conference attendees at the hotel. Please refer to the 2012 WateReuse California Annual Conference when making reservations in order to obtain the conference rate. We have a limited block of rooms at the hotel; therefore, all rooms are on a first-come, first-served basis. All reservations must be made by March 2, 2012 in order to ensure the special conference room rate.

Sheraton Grand Sacramento

1230 J Street
 Sacramento, CA 95814
 (916) 447-1700

Room Rate:

\$139 per night plus tax
 (room rate includes 50%
 discount on in-room, high
 speed internet access)

Upcoming Events

16th Annual Water Reuse & Desalination Research Conference

Hyatt Regency Mission Bay
 San Diego, CA
 June 4-5, 2012

27th Annual WateReuse Symposium

Westin Diplomat Resort & Spa
 Hollywood, FL
 September 9-12, 2012

28th Annual WateReuse Symposium

Denver Marriott City Center
 Denver, CO
 September 15-18, 2013



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