

# SCHEDULE - WEDNESDAY, MAY 2, 2012

CELEBRATING THE PAST,  
PLANNING FOR THE FUTURE

AZ WATER 2012 ANNUAL CONFERENCE PROGRAM — WEDNESDAY, MAY 2, 2012					
7:00 – 5:00	MANUFACTURER'S EXHIBITION.....Renaissance Glendale Hotel & Spa				
8:00 – 5:00	TECHNICAL PROGRAM.....Renaissance Glendale Hotel & Spa				
7:00 – 8:00	CONTINENTAL BUFFET BREAKFAST				
8:00 – 9:45	WELCOME / OPENING SESSION & KEYNOTE SPEAKER / PANEL DISCUSSION [Solana E]				
9:45 – 10:30	SERVICES AWARDS PRESENTATION [Solana E]				
10:30 – 12:00	MANUFACTURER'S EXHIBITION [Media Center]				
12:00 – 1:00	LUNCHEON / OPERATOR AWARDS [Solana E]				
	<b>TRACK 1</b>	<b>TRACK 2</b>	<b>TRACK 3</b>	<b>TRACK 4</b>	<b>TRACK 5</b>
	<b>Cira A</b>	<b>Cira B</b>	<b>Cira C -D</b>	<b>Solana F-G</b>	<b>Solana H</b>
	<i>Water Resources</i> Moderator: Warren Tenney	<i>Regulatory Block</i> Moderator: Kevin Chadwick	<i>Project Updates</i> Moderator: Dale Conover	<i>Instrumentation and Control</i> Moderator: Tom Braatelian	<i>Water Distribution – Reservoirs</i> Moderator: Lace Paccione
1:00 – 1:30	Water Resource Policy Updates and the Future – Panel Discussion	ADHS Field Inspection of Compliance Field Method Requirements for AZPDES and APP Permits	Effective Planning for the Future: The City of Surprise's EPA Water System Improvements Project	Mobile Devices for SCADA Integration and Beyond: Considerations, Security and Applications	City of Chandler – Water System Optimization and Reservoir Management – Maximizing treated surface water for cost savings, while minimizing water age for DBP control
1:30 – 2:00		Arizona Pollutant Discharge Elimination System (AZPDES) Permits Overview	ROMP Central Laboratory Complex – A New Facility for Pima County	Evolution of a SCADA System	Reservoir Renewal: The Tucson Water Reservoir and Tank Rehabilitation Program
2:00 – 2:30		ADEQ Reporting Requirements: Discharge Monitor Report (DMR) & Self Monitoring Report Form (SMRF) Overview	Casa Grande West Water Company – A Small Community Success Story	Evaluation of Water Quality Sensors in Response to Bacillus Thuringiensis	Reservoir Liner Alternative Analysis
2:30 – 3:00	MANUFACTURER'S EXHIBITION BREAK				
3:00 – 3:30					
	<i>Young Professionals</i> Moderator: Jeanne Jensen	<i>Regulatory Block</i> Moderator: Kevin Chadwick	<i>Wastewater Treatment</i> Moderator: Steve Wedwick	<i>Flow Metering</i> Moderator: David Snow	<i>Water Distribution – Reservoirs</i> Moderator: Mike Simpson
3:30 – 4:00	Build Your Career and Keep Your Head on Straight – Panel Discussion	EPA Drinking Water Regulatory Updates	The Changing Nature of Arizona Sewage and its Implications for Planning, Design, Operation, and Reuse	Accurate Flow Measurement of Pumping Stations	A Fortuitous Path: Finding the Optimum Approach for Improving Water Quality at the 1-ES1 (64th St. & Thomas) Reservoir Complex
4:00 – 4:30		ADEQ Water Quality Division Update	How "Activated" is Your Sludge – SOUR Will Tell You	Reorganizing Meter Reading and the Benefits of Converting to a Radio Read System	In-Reservoir TTHM Surface Aeration: A Year of Results, Experience and Lessons Learned
4:30 – 5:00		What the Regulator Looks for at a Sanitary Survey Inspection of a Public Water System	Comparison of Start-up of Large and Small MBR	How to Keep Your Water AMI Installation from Tanking – Lessons Learned from AMI Installation Projects	Modeling the Future Town of Payson Water Quality with the Proposed C.C. Cragin Reservoir Source
5:30 – 8:30	Annual Conference Barbecue at Margaritaville –Westgate City Center, Glendale				

Sessions and speakers are tentative and subject to change. Refer to the final conference program guide when you pick up your registration package.

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TECHNICAL PROGRAM.....Renaissance Glendale Hotel & Spa

CONTINENTAL BUFFET BREAKFAST

WELCOME / OPENING SESSION & KEYNOTE SPEAKER / PANEL DISCUSSION [Solana E]

SERVICES AWARDS PRESENTATION [Solana E]

MANUFACTURER'S EXHIBITION [Media Center]

LUNCHEON / OPERATOR AWARDS [Solana E]

TRACK 6	TRACK 7	TRACK 8	TRACK 9	TRACK 10
Solana I	Cascade A	Cascade B	Cascade C	Aurora A-B
<i>Water Treatment</i> Moderator: Richard Sacks	<i>Operator Certification Training</i> Moderator: Jerry Summers	<i>Operator Certification Training</i> Moderator: Amy Simons-Callahan	<i>Operator Certification Training</i> Moderator: Keith Greenberg	<i>Committee Meetings</i>
Conversion of Filter Media from Dual Media to GAC – A Discussion of the Experience at Union Hills WTP	Disinfection Jim Wright Statewide Disinfection Systems	Wastewater Lab Sampling and Analysis Dianne Frydrych Legend Technical Services	Cross Connection Control Vern Camp Rural Water Association of Arizona	Budget, Finance, Audit Committee Brandy Kelso, Chair
Tools to Maximize Performance of Coagulation and Activated Carbon for DBP Compliance at Minimal Cost				Young Professionals Committee Jeanne Jensen, Chair
Superchlorinated Chlorine Dioxide for TTHM				Awards Committee Darlene Helm, Chair

MANUFACTURER'S EXHIBITION BREAK

<i>Water Treatment</i> Moderator: Richard Sacks	<i>Operator Certification Training</i> Moderator: Jerry Summers	<i>Operator Certification Training</i> Moderator: Amy Simons-Callahan	<i>Operator Certification Training</i> Moderator: Keith Greenberg	<i>Committee Meetings</i>
Optimization of GAC Adsorption Systems for the Reduction of Overall Operating Costs	Math for Operators Lance Mason Brown and Caldwell	Water Lab Sampling and Analysis Dianne Frydrych Legend Technical Services	Instrumentation Dennis Plzak Severn Trent Environmental Services	Construction Committee Jim Curcio, Chair
Glendale Water System Optimization Part I – Water Production and Operation Optimization				
Glendale Water System Optimization Part 2 – Water Treatment Optimization Strategy of Blending Multiple Water Sources and Treatment				

Annual Conference Barbecue at Margaritaville –Westgate City Center, Glendale

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TIME	AZ WATER 2012 ANNUAL CONFERENCE PROGRAM — THURSDAY, MAY 3, 2012				
8:00 - 3:30	MANUFACTURER'S EXHIBITION.....Renaissance Glendale Hotel & Spa				
8:00 - 5:00	TECHNICAL PROGRAM.....Renaissance Glendale Hotel & Spa				
7:00 - 7:30	BREAKFAST				
7:30 - 8:00	BREAKFAST				
	<b>TRACK 1</b>	<b>TRACK 2</b>	<b>TRACK 3</b>	<b>TRACK 4</b>	<b>TRACK 5</b>
	<b>Cira A</b>	<b>Cira B</b>	<b>Cira C</b>	<b>Solana F-G</b>	<b>Solana H</b>
	<i>Water Resources</i> Moderator: Floyd Marsh	<i>Water Reuse Management</i> Moderator: Brian Biesemeyer	<i>Biosolids and Residuals</i> Moderator: Jon Bernreuter	<i>Pretreatment</i> Moderator: Gus Lopez	<i>Construction</i> Moderator: Ron Vokoun
8:00 - 8:30	Managing the Effects of Climate Change on Water and Energy Resources in the Southwestern U.S. using Embedded Resource Accounting	Outcomes of WaterReuse Foundation Project 08-04: Approaches to Maintain Consistently High Quality Recycled Water in Storage and Distribution Systems	Municipal Wastewater Sludge - Waste or Resource?	Overview of the National Pretreatment Program	Construction Highlights of the Ina Road WRF Upgrade Project
8:30 - 9:00	Determining the Highest and Best Use of the Next Increment of Reclaimed Water: A Decision Support Tool for Water Resources Managers	Does Increasing Solids Retention Time in the Wastewater Treatment Process Affect the Persistence of Antibiotic Resistance Genes?	Positive Impacts of Focused Pulsed (FP) Treatment on Hydrolysis Rate of Waste Activated Sludge in Methanogenic Systems and Microbial Electrochemical Cells (MXCs)	Pretreatment Program: Legal Authority	Zone 1, 1A, 2 Water Infrastructure Improvements Project: A Collaborative Approach to Improving Water Distribution Service to the Citizens of Phoenix
9:00 - 9:30	Adding Green to Our Water Resource Management for a Sustainable Future	TTHM Reduction Strategies for Tertiary Effluent: Stepped Chlorination, Chloramination and Peracetic Acid	The Role of Anaerobic Digester SRT in Siemens Water Technologies' Hybrid Process	Industrial User Permitting	The Do's and Don'ts of Coating Concrete
9:30 - 10:00	Connecting Environmental Water Needs to Arizona Water Planning	Sale of the Century: Determining the Price of Reclaimed Water to be Leased to the Largest Nuclear Power Plant in the United States	FOG Management in Tempe, Pilot Program Development	Pretreatment Training Basics: Local Limits	CAWCD Pumping Plant Trashrake Replacement Project
10:00 - 10:30	Conserve to Enhance: A Tool for Linking Consumer Water Efficiency and Environmental Enhancement	California: Arizona's Crystal Ball for Reuse Regulations?	The Basics of Thermal Hydrolysis Process	Civil and Criminal Enforcement: Resources and Funding	Lessons Learned from Connecting Over 2,100 Dwellings to a Sewer Collection System
10:30 - 12:00	MANUFACTURER'S EXHIBITION BREAK [Media Center]				
12:00 - 1:30	LUNCHEON, BUSINESS MEETING, AWWA SPEAKER [Solana E]				
	<b>TRACK 1</b>	<b>TRACK 2</b>	<b>TRACK 3</b>	<b>TRACK 4</b>	<b>TRACK 5</b>
	<i>Collection Systems</i> Moderator: Dana Biscan	<i>Modeling and Development of Reuse Systems</i> Moderator: Tim Thomure	<i>Biosolids and Biofuels</i> Moderator: Gary Newman	<i>Groundwater Recharge</i> Moderator: Bob Hollander	<i>Construction - Alternative Delivery</i> Moderator: Larry Ayers
1:30 - 2:00	The Do's and Don'ts of Large Diameter Trenchless Rehabilitation	Reclaimed Water Distribution Hydraulic Models: A Critical Step in Developing Effective Infrastructure Improvements	Phosphorus Recovery from Microorganisms: Sustainable Biofuel and Wastewater Treatment	City of Phoenix, Aquifer Storage and Recovery Well #299: Programming? Why is Programming Critical for ASR Options?	Construction Management at Risk - The Good, The Bad and The Ugly
2:00 - 2:30	When Rapid Industrial Growth Means Rapid Lift Station Design	Reclaimed Water Distribution System Evaluation and Conceptual Design Improvements for the City of Scottsdale	Low Cost Process for the Treatment of Wastewater Sludge to Exceptional Quality, Class A Biosolids	City of Phoenix, Aquifer Storage and Recovery Well #299: How Did You Unclog that Well? Radial Injection Surge Development	Innovative Approach of Pooling Public and Private Funding to Develop a Major Water Infrastructure Project
2:30 - 3:00	Expanding NASSCO's PACP 5 Rating to Triage Concrete Sewer Interceptor Pipe for Rehabilitation	The Challenges of Modeling Reclaimed Water Distribution Systems - Water Age and the Filling and Refilling Network Branches	Solids Reduction with Class A Results	Basin Recharge - Proper Planning Ensures Success	Design Build Approach for California's Largest UV Disinfection Facility
3:00 - 3:30	MANUFACTURER'S EXHIBITION BREAK				
	<i>Special Topics</i> Moderator: Kathy Mills	<i>Solar Distillation</i> Moderator: Doug Berschauer	<i>Special Topics</i> Moderator: Ryan Rhoades	<i>Treatment Processes</i> Moderator: Charlie He	<i>Treatment Processes</i> Moderator: Fred Kriess
3:30 - 4:00	Effective Management of Abandoned Subdivisions	Solar Membrane Distillation: An Alternative to Reverse Osmosis for Desalination/Water Purification in Remote Areas	AZ Water: Who Are We and How Did We Get Here?	Achieving Maximum Water Recovery	THM Mitigation at Desert Mountain Using Air Stripping and Subsequent THM Reformation
4:00 - 4:30	City of Phoenix Declining Water Usage and Wastewater Generation Overview Challenges and Opportunities	Field Study of Solar Membrane Distillation	The Architecture of Water Treatment	Removal of Contaminants of Emerging Concern from Wastewater Effluent by Solar Hydrogen Peroxide Photolysis	Arsenic Removal Using Sorptive Medias: A Short Course
4:30 - 5:00	The City of Safford and Severn Trent Services - Partners in Operational Excellence	Derivation of an Improved Energy Capture Equation for Use in a Decentralized Autonomous Solar Membrane Distillation Plant	Loan and Grant Funding for Rural Re-Development	Engineered Biofiltration: Reducing Biofilter EPS to Improve Hydraulics and Water Treatment Performance	Photocatalytic Nitrate Reduction in Ion Exchange Brine Using Titanium Dioxide
5:30 - 8:30	HOSPITALITY NIGHT (DINNER AND NETWORKING ON YOUR OWN)				

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**AZ WATER 2012 ANNUAL CONFERENCE PROGRAM — THURSDAY, MAY 3, 2012**

**MANUFACTURER'S EXHIBITION.....Renaissance Glendale Hotel & Spa**

**TECHNICAL PROGRAM.....Renaissance Glendale Hotel & Spa**

**BREAKFAST**

TRACK 6	TRACK 7	TRACK 8	TRACK 9	TRACK 10
Solana I	Cascade A	Cascade B	Cascade C	Aurora A-B
<i>Membranes in Water Treatment</i> Moderator: Doug Kobrick	<i>Operator Certification Training</i> Moderator: TBD	<i>Operator Certification Training</i> Moderator: James Krikawa	<i>Operator Certification Training</i> Moderator: John Bannen	<i>Committee Meetings</i>
Pilot Study for Regulated Wetlands for Concentrate Treatment: First Year Results				IT Committee Patrick Goodfellow, Chair
Demonstrating Ozone and Biofiltration for Reducing Reclaimed Water RO Concentrate Organic Fouling SROG Concentrate Minimization Demonstration Pilot Testing Project Update				
Membranes Made of PVC? – Validating Innovative Ultrafiltration Membrane Through a Cooperative R&D Agreement	Disinfection Jim Wright Statewide Disinfection Systems	Wastewater Lab Sampling and Analysis Dianne Frydrych Legend Technical Services	Cross Connection Control Vern Camp Rural Water Association of Arizona	Luncheon Program Committee Lisa Culbert, Chair
Considerations in Design and Operation of Flat Panel Membrane Bioreactor (MBR) System in Kingman, Arizona				Research Committee Kevin Rose, Chair
Chandler MF Replacement: The Universal Train Concept				

**MANUFACTURER'S EXHIBITION BREAK [Media Center]**

**LUNCHEON, BUSINESS MEETING, AWWA SPEAKER [Solana E]**

TRACK 6	TRACK 7	TRACK 8	TRACK 9	TRACK 10
<i>Research Topics</i> Moderator: Kevin Rose	<i>Operator Certification Training</i> Moderator: Jerry Summers	<i>Operator Certification Training</i> Moderator: James Krikawa	<i>Operator Certification Training</i> Moderator: John Bannen	<i>Committee Meetings</i>
Searching for the Goldilocks pH: Finding the "Just Right" Option	Math for Operators Lance Mason Brown and Caldwell	Water Lab Sampling and Analysis Dianne Frydrych Legend Technical Services	Instrumentation Dennis Pizak Severn Trent Environmental Services	Pretreatment Committee Gus Lopez, Chair
Microencapsulation of Arsenic-Bearing Solid Residuals for Long-Term Stabilization under Landfill Conditions				Water Resources Committee Warren Tenney, Chair
Removal of Emerging Contaminants by Point-Of-Use (POU) Devices: A New Concept with Major Implications for Water Management				

**MANUFACTURER'S EXHIBITION BREAK**

<i>Research Topics</i> Moderator: Kevin Rose	<i>Operator Certification Training</i> Moderator: TBD	<i>Operator Certification Training</i> Moderator: James Krikawa	<i>Operator Certification Training</i> Moderator: John Bannen	<i>Committee Meetings</i>
Fate of Estrogenic/Androgenic Activity and Estrogen/Androgen Mimics during Sludge Digestion	Valve and Hydrant Maintenance C. Scott McElroy M.E. Simpson, Co.	Wastewater Collection System Cleaning and QA/QC Gary Hall, AWI and Brian Conroy Duke's Root Control	Wastewater Treatment Process Control Jeromy Brush Severn Trent Environmental Services	Biosolids and Residentials Committee Fernando Sarmiento, Chair
Single Particle-ICP Technique for Analysis of Nanoparticle in Effluent of Wastewater Treatment Plant				
The Fate of Trace Organic Contaminants in the Lower Santa Cruz River Watershed				

**HOSPITALITY NIGHT (DINNER AND NETWORKING ON YOUR OWN)**

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TIME	AZ WATER 2012 ANNUAL CONFERENCE PROGRAM — FRIDAY, MAY 4, 2012				
8:00 - 3:30	TECHNICAL PROGRAM.....Renaissance Glendale Hotel & Spa				
7:00 - 8:00	BREAKFAST				
	<b>TRACK 1</b>	<b>TRACK 2</b>	<b>TRACK 3</b>	<b>TRACK 4</b>	<b>TRACK 5</b>
	Cira A	Cira B	Cira C	Solana F-G	Solana H
	<i>Water Resources</i> Moderator: Wally Wilson	<i>Water For People</i> Moderator: Brent Pennington	<i>Energy and Power</i> Moderator: Jenny Zapana	<i>Utility Leadership and Personnel</i> Moderator: Robin Bain	<i>Water Distribution – Water Mains</i> Moderator: Dawn Slauter
8:00 - 8:30	Benefits of Integrated Water Resources Master Planning	Keeping Our Promise “How the Indian Health Service Continues to Bring Water to the People of the Navajo Nation”	CAP Smart Energy – Designing an Outreach Program for a Critical Water/Energy Issue	Leadership, Succession Planning and Understanding the Matures, Boomers, Xers, Yers and Millennials	Effective Microbial Control Strategies for Main Breaks and Depressurization
8:30 - 9:00	Taking the Scenic Route – An Indirect Approach to Direct Delivery of CAP Water	Analysis of Large Water Distribution Systems in Honduras and Unique Solutions	The Evolution of a 2 Mega Watt Solar Project at Gilbert’s Neely WRF	Core Competencies of Operational Managers and Leaders	Understanding Mechanisms of Leaks, Breaks and Failures in Distribution Mains
9:00 - 9:30	Peoria’s Water Resources: Roadmap to the Future	Sustainability Assessment of Arsenic Treatment Systems in West Bengal, India	Power Management for a 2 Mega Watt Solar Project at Gilbert’s Neely WRF	Training the Next WWTP Workforce	Waterline Assessment and Rehabilitation – A New Approach to an Old Problem
9:30 - 10:00	Arizona Water Festivals: Effective Water Education for YOUR Community	Volunteering for Water For People	Energy Benchmarking and Modeling for WWTPs	An Award Winning Certified Utilities Apprentice Program	Is Rehabilitation an Option for Extending the Life of My Pressure Pipe?
10:00 - 10:30	BREAK [Solana Ballroom Lobby]				
	<i>Odor Control</i> Moderator: Leisa Williams	<i>Groundwater</i> Moderator: Dale Conover	<i>Energy and Power</i> Moderator: Asha Pai	<i>Utility Management Tools</i> Moderator: Robin Bain	<i>Disinfection</i> Moderator: Jim Wright
10:30 - 11:00	A Radical Solution to Odor Control	Groundwater Temperature: Not Too Hot To Handle!	VFD Pump Starter Control Strategies	Operational After Action Reviews – Operating to Improve	Reliable Disinfection without Tertiary Filtration and Low Detention Times
11:00 - 11:30	A to Z: Conducting an H2S (Hydrogen Sulfide) Odor Study	Cost-Benefit Analysis of Dual Rotary Drilling for Water Supply Wells	Real Time Modeling for Energy Optimization – Case Study with Missouri American Water Company	Bringing Compliant Laboratory Analyses In-house: Increasing Productivity with a Decreasing Budget	Treatment Technologies for Mitigating Disinfection Byproduct (DBPs) Formation at Marine Corps Air Station in Yuma, AZ
11:30 - 12:00	The Odor Control Struggle and What Scottsdale is Doing About It	An Innovative Zero Liquid Discharge Water Treatment Solution for Complex Water Quality Well at Coyote Creek, NM	Automation – A Helping Hand in Building a Green Future	Geospatial Patterns Supporting Water Utility Operations	Oxidant and Disinfection System Improvements to Address TTHM and LCR
12:00 - 1:30	LUNCHEON, GAVEL PASSING, AND WEF SPEAKER [Solana E]				
	<b>TRACK 1</b>	<b>TRACK 2</b>	<b>TRACK 3</b>	<b>TRACK 4</b>	<b>TRACK 5</b>
	<i>Wastewater Treatment</i> Moderator: Fred Rouse	<i>Pretreatment – Sampling and Flow Metering</i> Moderator: Gus Lopez	<i>Operations</i> Moderator: Travis Nuttall	<i>Utility Management Tools</i> Moderator: John Masche	<i>Disinfection</i> Moderator: Mike Caruso
1:30 - 2:00	Improved Nitrogen Removal Using Collection System Bioaugmentation at the Homestead Village Wastewater Treatment Plant	Vistancia Non-Potable System	Life After Commissioning: Process Optimization to Maximize WTP Performance	Supply Chain Management Strategies for Resilient Operations	Occurrence and Transformation of NDMA Precursors in the Valley of the Sun
2:00 - 2:30	Understanding and Overcoming Potential Losses in Microbial Fuel Cells for Practical Application in Wastewater Treatment	Sample Monitoring with S::CAN – Field Testing Experience at 23rd Avenue WWTP	Nitrite Lock: Incomplete Nitrification Effects on Downstream Processes During Commissioning in Kingman, Arizona	Panoview: Streamlining Access to Assets & Infrastructure Management via Virtual Environments	Activated Carbon for N-Nitrosodimethylamine (NDMA) Precursor Removal from Drinking Water Treatment Plant Influent
2:30 - 3:00	Anaerobic Digesters Push the Boundaries with New Cambia Thermal	Wastewater Sampling – The Challenges of Representative Wastewater Sampling	Computerized Surge Analysis of Various Water System Configurations and Remedies	Sewer Model for Utility CIP – Decisions and Challenges with First Time Implementation	Infrastructure Improvements for Improved CT Control to Assist in TTHM Mitigation Strategy
3:00 - 3:30	Air Bearing Turbo Blowers... Just a Bunch of Hot Air? The Latest on the Operation of Turbo Blowers	Wastewater Sampling City of Phoenix and the SROG Experience	It Looks Good On Paper, But Does It Work?	A Practical Approach to Utilizing CIP Optimization Tools and Techniques Within a Utility Framework	Reduction of DBP Formation Using Titanium Dioxide Photocatalysis

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TECHNICAL PROGRAM.....Renaissance Glendale Hotel & Spa

BREAKFAST

TRACK 6	TRACK 7	TRACK 8	TRACK 9	TRACK 10
Solana I	Cascade A	Cascade B	Cascade C	Aurora A-B
<i>Water/Wastewater Demand Trends</i> Moderator: Eric French	<i>Operator Certification Training</i> Moderator: TBD	<i>Operator Certification Training</i> Moderator: James Cavanaugh	<i>Operator Certification Training</i> Moderator: Roy Finch	<i>Committee Meetings</i>
Introduction to Water Demand and Wastewater Generation Trends				
Implications for Water Production and Distribution	Disinfection Jim Wright Statewide Disinfection Systems	Water Lab Sampling and Analysis Dianne Frydrych Legend Technical Services	Cross Connection Control Vern Camp Rural Water Association of Arizona	Lab Practices Committee Matt Rexing, Chair
Implications for Wastewater Collection and Treatment				Water Distribution Committee Matt Tasch, Chair
Implications for Water Resources and Financial Planning				

BREAK [Solana Ballroom Lobby]

<i>Disinfection</i> Moderator: Kevin Chadwick	<i>Operator Certification Training</i> Moderator: Jerry Summers	<i>Operator Certification Training</i> Moderator: James Cavanaugh	<i>Operator Certification Training</i> Moderator: Roy Finch	<i>Committee Meetings</i>
Total and Hexavalent Chromium Occurrence Analysis: Implications for Arizona	Math for Operators Lance Mason Brown and Caldwell	Wastewater Lab Sampling and Analysis Dianne Frydrych Legend Technical Services	Instrumentation Dennis Pizak Severn Trent Environmental Services	Water For People Committee Venkat Radhakrishnan, Chair
Avoiding Unnecessary Whole Effluent Toxicity Test Failures at Wastewater Treatment Plants				
The Case Against Copper				

LUNCHEON, GAVEL PASSING, AND WEF SPEAKER [Solana E]

TRACK 6	TRACK 7	TRACK 8	TRACK 9	TRACK 10
<i>Water Distribution</i> Moderator: Rob Buss	<i>Operator Certification Training</i> Moderator: TBD	<i>Operator Certification Training</i> Moderator: James Cavanaugh	<i>Operator Certification Training</i> Moderator: Roy Finch	<i>Committee Meetings</i>
Tucson Water Booster Pump Energy Efficiency Program	Valve and Hydrant Maintenance C. Scott McElroy M.E. Simpson, Co.	Wastewater Collection System Cleaning and QA/QC Gary Hall, AWI and Brian Conroy Duke's Root Control	Water Treatment Process Control Jeremy Brush Severn Trent Environmental Services	Tap Into Quality Committee Meeting Christina Hoppes, Chair
Using GIS and Wireless Technology to Improve your Fire Hydrant Maintenance Program				
Pilot Study of Three Distribution System Contamination Warning Technologies: Results and Applications				
Systematic Planning Leads to Successful Commissioning				Technical Conference Program Committee Lisa Jackson, Chair

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