

## 39<sup>th</sup> Annual WaterReuse Symposium

### PDH Request Form



Printed Name:	E-mail:
Signed Name:	Organization:

The WaterReuse Association is pleased to offer professional development hours (PDHs) for technical sessions at the 39<sup>th</sup> Annual WaterReuse Symposium. It is the attendee's responsibility to ensure that these sessions qualify with your state accreditation agency, as well as to submit the completed certificate to your state accreditation agency to request credit.

### Instructions

1. Use this form to record which presentations you attend.
2. Tally up the total hours on right hand corner of each section and on the last page.
3. Enter your contact information on the form.
4. Submit the form to [symposium@watereuse.org](mailto:symposium@watereuse.org)
5. A Certificate of Attendance will be emailed to you within 4 weeks.

**Monday, March 11, 2024**

**1:00 pm – 3:00pm**

<b>Water Reuse in Colorado Denver 5-6</b>	<b>Track 2: WORKSHOP Room: Denver 1-2</b>	<b>Track 3: WORKSHOP Room: Denver 3</b>	<b>Track 4: WORKSHOP Room: Denver 4</b>
100 Years & Not Yet Retired Colorado Springs Non- Potable Reuse  <div style="text-align: right;">_____</div> <div style="text-align: right;"><i>(0.5 hour)</i></div>	Communication Intensive	THE WATER RESEARCH FOUNDATION  Part 1  <b>Continues after Break</b>	WATER REUSE 101- INTRODUCTION TO WATER RECYLING FROM THE EXPERTS  Part 1: What is Water Reuse & How/ Where to Begin  <b>Continues after Break</b>
Denver One Water Plan: Collaborative Management of Integrated Resources  <div style="text-align: right;">_____</div> <div style="text-align: right;"><i>(0.5 hour)</i></div>			
DPR: Paving the way to get beyond the “lck” Factor  <div style="text-align: right;">_____</div> <div style="text-align: right;"><i>(0.5 hour)</i></div>			

Total hours from 1:00 pm – 3:00pm: \_\_\_\_\_



**Tuesday, March 12, 2024**

**11:00am – 12:00pm**

<b>Track 1: Agricultural Reuse Research &amp; Innovation</b>  <b>Room: PENROSE 1</b>	<b>Track 2: Climate Resiliency &amp; Adaptation</b>  <b>Room: Penrose 2</b>	<b>Track 3: Collaborating &amp; Trust Building to Advanced Reuse</b>  <b>Room: Denver 5-6</b>	<b>Track 4: Industrial Water Reuse: Food and Beverage</b>  <b>Room: Denver 1-2</b>	<b>Track 5: Potable Reuse Innovations &amp; Research</b>  <b>Room: Denver 4</b>	<b>Track 6: Water Reuse Planning, Governance, &amp; Management</b>  <b>Room: Denver 3</b>
Addressing Impediments & Incentives for Agricultural Water Reuse  <hr/> <i>(0.5 hour)</i>	Climate Financing Nature-Based Water Quality Improvements to Offset Carbon-Intensive Reuse  <hr/> <i>(0.5 hour)</i>	The Science of Communication: The Neuro-psychology Behind Effective Communication  <hr/> <i>(0.5 hour)</i>	Water Reuse in the Beverage Industry  <hr/> <i>(0.5 hour)</i>	Next Generation of Potable Reuse Trains: Are We Ready?  <hr/> <i>(1 hour)</i>	Navigating the Future: Water Reuse in a Water 2050 Paradigm  <hr/> <i>(1 hour)</i>
Agricultural Drainage Reuse Maximization Using Biological Concentrate Management  <hr/> <i>(0.5 hour)</i>	Floating Wetlands: Natural & Sustainable Tool for RO Concentrate Treatment  <hr/> <i>(0.5 hour)</i>	The 30-Year Marathon: Lessons from Pure Water San Diego  <hr/> <i>(0.5 hour)</i>	Danish Food & Beverage Successes Provide Blueprint for Sustainability  <hr/> <i>(0.5 hour)</i>		

Total hours from 11:00 am – 12:00pm: \_\_\_\_\_

Tuesday, March 12, 2024

2:00pm – 3:00pm

<b>Agricultural Reuse Research &amp; Innovation</b>  <b>Room: PENROSE 1</b>	<b>Climate Resiliency &amp; Adaptation: Stormwater Capture &amp; Reuse</b>  <b>Room: PENROSE 2</b>	<b>Collaboration &amp; Trust Building to Advance Reuse</b>  <b>Room: DENVER 5-6</b>	<b>Industrial Reuse DENVER 1-2</b>  <b>Room: DENVER 1-2</b>	<b>Potable Reuse Innovations: Pathogen &amp; Chemical Control</b>  <b>Room: DENVER 4</b>	<b>Water Reuse Planning, Governance, &amp; Management</b>  <b>Room: DENVER 3</b>
Supporting Agribusiness with Wastewater Reuse in North Dakota  <hr/> <i>(0.5 hour)</i>	Urban Stormwater Reuse to Enhance the Public Realm  <hr/> <i>(0.5 hour)</i>	Show, Don't Tell: Water Reuse Visitor Centers  <hr/> <i>(1 hour)</i>	Permitting Fit-for-Purpose Treatment & Reuse of Produced Water  <hr/> <i>(1 hour)</i>	Validating Pathogen Removal in Ozone/BAF Advanced Water Treatment Trains _____  <hr/> <i>(0.5 hour)</i>	One Water Program Management: Elevating Industry Best Practices  <hr/> <i>(0.5 hour)</i>
Risk-Based Treatment Needs for Water Reuse in Protein Processing Facilities  <hr/> <i>(.5 hour)</i>	Decentralized Stormwater Reuse: A Sustainable Solution in the Bronx  <hr/> <i>(0.5 hour)</i>			Establishing Virus Credits for Uncredited Processes: CFS & Sub-Residual Ozone  <hr/> <i>(0.5 hour)</i>	Creative Collaborations & Cost Sharing Strategies to Implement Multi-Benefit Projects  <hr/> <i>(0.5 hour)</i>

Tuesday, March 12, 2023

3:30-5:00 pm

<p><b>Elevating Opportunities: Water Reuse Case Studies</b></p> <p>Room: PENROSE</p>	<p><b>Climate Resiliency &amp; Adaptation: Groundwater</b></p> <p>Room: PENROSE 2</p>	<p><b>Piloting the Right Solution</b></p> <p>Room: DENVER 5-6</p>	<p><b>Industrial Reuse Innovative Approaches</b></p> <p>Room: DENVER 1-2</p>	<p><b>Potable Reuse Innovations: Enhanced Process Control &amp; Monitoring</b></p> <p>Room: Denver 4</p>	<p><b>Water Reuse Planning, Governance, &amp; Management</b></p> <p>Room: DENVER 3</p>
<p>Imagining a More Sustainable Integrated Water Supply System at USAFA</p> <p style="text-align: center;">_____ (.5 hour)</p>	<p>Laguna County Pioneers Deep Well ROC Injection for California IPR</p> <p style="text-align: center;">_____ (.5 hour)</p>	<p>Connecting through Demonstration: City of Boise’s Advanced Water Treatment Pilot</p> <p style="text-align: center;">_____ (.5 hour)</p>	<p>High Purity Water &amp; Reuse for an Electric Vehicle Manufacturing</p> <p style="text-align: center;">_____ (.5 hour)</p>	<p>Machine Learning Soft Sensors for Potable Reuse</p> <p style="text-align: center;">_____ (.5 hour)</p>	<p>Constructing a Drivers-Based Framework for Assessing Water Reuse Potential</p> <p style="text-align: center;">_____ (.5 hour)</p>

Water Flowing Underground: Lessons Learned from Pure Water  <hr/> <i>(.5 hour)</i>	Groundwater Modeling to Support Managed Aquifer Recharge  <hr/> <i>(.5 hour)</i>	Sydney Water's IPR Demonstration Plant & Regulatory  <hr/> <i>(.5 hour)</i>	Possibilities for Sustainable Industrial Water Reuse around the Great Lakes  <hr/> <i>(.5 hour)</i>	Development of a Rapid Virus Monitoring System in Potable Reuse Projects  <hr/> <i>(.5 hour)</i>	Alternative Water Supplies in the Midwest: Reuse Roadmapping  <hr/> <i>(.5 hour)</i>
Waking Up Southeast Queensland's Western Corridor Recycled Water Scheme  <hr/> <i>(.5 hour)</i>	Brackish Groundwater Reclamation Program for Future Storage of Recycled Water  <hr/> <i>(.5 hour)</i>	Pure Water Colorado: Three Years Experience with Mobile DPR Demonstration  <hr/> <i>(.5 hour)</i>	Agricultural Reuse of Industrial Wastewater: A Valuable Resource in California  <hr/> <i>(.5 hour)</i>	Online Strontium Analyzer for Potable Reuse Reverse Osmosis Integrity Monitoring  <hr/> <i>(.5 hour)</i>	What DPR-Ready Means for Valley Water?  <hr/> <i>(.5 hour)</i>

Total hours from 2:00pm – 5:00pm: \_\_\_\_\_

Wednesday, March 13, 2023

8:00am – 10:30pm

<p><b>Advancing Reuse in Small &amp; Underrepresented Communities Room: PENROSE 2</b></p>	<p><b>Emerging Research &amp; Compliance Strategies</b>  Room: PENROSE 1</p>	<p><b>Onsite and Decentralized Water Recycling Systems</b> Room: DENVER 5-6</p>	<p><b>Removing Policy &amp; Funding Barriers to Reuse</b>  Room DENVER 3</p>	<p><b>Water Reuse Communications, Education, &amp; Outreach</b> Room: DENVER 4</p>	<p><b>Water Reuse Operations</b>  Room: DENVER 1-2</p>
<p>Identifying &amp; Quantifying Social Equity Impacts from Reuse Projects</p> <p style="text-align: center;">_____ (1 hour)</p>	<p>Unified Treatment Strategies for Low Nutrient Limits &amp; Potable Reuse</p> <p style="text-align: center;">_____ (0.5 hour)</p>	<p>Innovative Decentralized Reuse for Denver Water “RUFUS:” Challenges &amp; Opportunities</p> <p style="text-align: center;">_____ (0.5 hour)</p>	<p>Benefits &amp; Barriers to Reuse in the Mountain West</p>	<p>Communication Strategies for Advancing Public Acceptance of Potable Reuse Projects</p> <p style="text-align: center;">_____ (.5 hour)</p>	<p>Life Cycle Assessment and Cost Analysis of Potable Reuse: IPR, Ozone BAC &amp; RO (GA)</p> <p style="text-align: center;">_____ (0.5 hour)</p>
<p>Decentralized Reuse: The Future of Distributed Infrastructure</p> <p style="text-align: center;">_____ (0.5 hour)</p>	<p>Real-Time Detection of VOCs in RO-Based Potable Reuse</p> <p style="text-align: center;">_____ (0.5 hour)</p>	<p>Onsite Non-Potable Water Systems: Decentralized Wastewater Treatment in Washington</p> <p style="text-align: center;">_____ (0.5 hour)</p>	<p style="text-align: center;">_____ (1 hour)</p>	<p>Beyond Beer: Using Pure Water Kombucha to Engage Larger Audiences</p> <p style="text-align: center;">_____ (.5 hour)</p>	<p>Implementing Reuse in the Water DROP Initiative in Miami-Dade County (FL)</p> <p style="text-align: center;">_____ (0.5 hour)</p>



<p>Overflowing Opportunities: Water-Abundant Regions Can Reuse Too</p> <p style="text-align: right;"><u>                    </u> (0.5 hour)</p>	<p>Using GAC Post RO to Target Low Molecular Weight VOCs</p> <p style="text-align: right;"><u>                    </u> (0.5 hour)</p>	<p>Sewer Mining for Decentralized Water Reuse</p> <p style="text-align: right;"><u>                    </u> (0.5 hour)</p>	<p>How WIFIA Financing Helps Communities Implement Water Reuse Projects</p> <p style="text-align: right;"><u>                    </u> (0.5 hour)</p>	<p>Reviving the Global Map of Reuse for Drinking around the World</p> <p style="text-align: right;"><u>                    </u> (0.5 hour)</p>	<p>Recycled Water Program Perspective on Contract Management</p> <p style="text-align: right;"><u>                    </u> (0.5 hour)</p>
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Wednesday, March 13, 2024

10:30am – 12:00pm

Advancing Reuse in Small & Underrepresented Communities PENROSE 2	Innovation & Emerging Research PENROSE 1	Onsite & Decentralized Water Recycling Systems DENVER 5-6	Water Reuse Policy DENVER 3	Water Reuse Communications, Education, & Outreach DENVER 4	Water Reuse Operations DENVER 1-2
<p>Smaller Utilities Face Big Challenges with Direct Potable Reuse</p> <p style="text-align: right;">(0.5 hour)</p>	<p>Unlocking the Nationwide Potential for Water Reuse: Fresh Research Insights</p>	<p>Successful Implementation of Onsite Systems Through Public-Private Partnerships</p>	<p>Panel: Federal &amp; State Policy Developments</p>	<p>Engaging the Medical &amp; Public Health Community in Water Reuse)</p> <p style="text-align: right;">(0.5 hour)</p>	<p>Overcoming Resource Challenges in Advanced Water Purification Projects</p> <p style="text-align: right;">(1 hour)</p>
<p>Aqua Pura: Adapting to Climate Change in Northern New Mexico</p> <p style="text-align: right;">(0.5 hour)</p>	<p style="text-align: right;">1 hour</p>	<p style="text-align: right;">(1 hour)</p>	<p style="text-align: right;">(1 hour)</p>	<p>Atmospheric Water Capture: An Emerging Way to Reuse Water from the Air</p> <p style="text-align: right;">(0.5 hour)</p>	<p>Case for High Recovery RO in Potable Reuse Trains</p> <p style="text-align: right;">(0.5 hour)</p>

Total hours from 10:30am – 12:00pm: \_\_\_\_\_

**Wednesday, March 13, 2024**

**12:00pm – 3:00pm**

<b>Industry Innovations: Part 1</b>  <b>PENROSE 2</b>	Innovation & Emerging Research  PENROSE 1	Onsite & Decentralized Water Recycling Systems DENVER 5-6	Water Reuse Regulations  DENVER 3	Water Reuse Operations  DENVER 1-2	<b>Global Dialogue Operations</b>  <b>Denver 4</b>
Carbon-Based Advanced Treatment: Where We Are & Where We Are Going  _____ (0.5 hour)	Water Reuse Consortium: Research Findings	The River Mile: Taking Distributed Reuse to the Mile High	Water Reuse Regulator Summit Briefing & Panel	Operations: Rising to the Challenges of Potable Reuse	International Expert Panel
Cherokee Indirect Potable Reuse Project: High Recovery Reverse Osmosis  _____ (0.5 hour)	_____ (1 hour)	_____ (1 hour)	_____ (1 hour)	_____ (1 hour)	_____ (1 hour)

Total hours from 12:00pm – 3:00pm: \_\_\_\_\_

**Wednesday, March 13, 2024**

**3:00pm – 4:30pm**

<b>Industry Innovations: Part 2</b>  <b>PENROSE 2</b>	<b>PFAS Removal in Reuse Systems</b>  <b>PENROSE 1</b>	<b>Public Health Considerations for Water Reuse</b>  <b>DENVER 5-6</b>	<b>Removing Regulatory &amp; Permitting Barriers to Reuse</b>  <b>DENVER 3</b>	<b>Water Reuse Workforce Development</b>  <b>DENVER 1-2</b>	<b>Global Dialogue on Water Reuse</b>  <b>Denver 4</b>
Reduce Before We Reuse: Innovative Solutions to Advance Water & Energy Savings  _____ (0.5 hour)	Potable Reuse Leads the PFAS Game: Lessons from WRF 5082  _____ (.5 hour)	Cost-Effective Approaches for Control of Multiple CECs in Watersheds  _____ (1 hour)	A Tale of Two States: The Why's Behind DPR Frameworks  _____ (1 hour)	Water Reuse Workforce: A Discussion on Recruitment, Training, & Retention  _____ (1 hour)	Roundtable Discussion  _____ (1 hour)
The Role of Decentralized Solutions in Driving Water Reuse, & Supporting Technologies  _____ (0.5 hour)	PFAS Removal in Advanced Water Treatment for Indirect Potable Reuse  _____ (0.5 hour)	Public Health Implications & Water Reuse: The Risk of Antibiotic Resistance  _____ (0.5 hour)	_____ (1 hour)	_____ (1 hour)	_____ (1 hour)

