



# Arizona Water Reuse

## 2016 SYMPOSIUM PROGRAM

### Sunday, July 24<sup>th</sup>

3:00 pm - 4:30 pm **WaterReuse AZ Section board meeting on the lawn**

4:30 pm - 7:00 pm **Registration on the lawn**

5:00 pm - 7:00 pm **Welcome Reception and Purple Water Balloon Battle**

### Monday, July 25<sup>th</sup>

7:30 am - 8:30 am **Breakfast and Registration Sponsored by // Brown and Caldwell and Greeley & Hansen**  
**Location: Ballroom BC**

#### General Session

**Moderated by: Rob McCandless, Brown and Caldwell**

8:45 am - 10:15 am Introduction // Channah Rock, WaterReuse Arizona Chapter President, UofA and Marie Pearthree, AZ Water Association President, CAP

Welcome // Brad Hill, Flagstaff Public Utilities Director and Jerry Nabours, Flagstaff Mayor

Keynote Address // John McCain, US Senator - Arizona

10:15 am - 10:30 am **Break Sponsored by Arcadis and Carollo**

#### Location: Flagstaff Room

#### Session 1A: Advances in Technology

**Moderated by: Brad Tackett, Greeley and Hansen**

10:30 am - 12:00 pm Tertiary MBR Industrial Reuse Application // Troy Walker, Hazen and Sawyer

UV-Oxidation: Accomplishing Multiple Objectives in Potable Reuse // Adam Festger, Trojan Technologies

Integrated Ozone Enhanced Biofiltration for Water Reuse // Abigail Antolovich, Xylem

#### Location: Ballroom A

#### Session 1B: Water Reuse in Arizona 101

**Moderated by: Robin Bain, City of Peoria**

Water Reuse in Arizona 101 and 102 // Maria Brady, Stantec Consulting & Rob McCandless, Brown and Caldwell

Potable Reuse Operator Training and Certification Framework // Erin Mackey, Brown and Caldwell

The Slow Demise of Direct Delivered Reclaim Water // Mark Holmes, City of Goodyear

12:00 pm - 1:30 pm **Lunch Sponsored by Stantec and Sundt // Scholarship Awards, and Water Reuse Awards**  
**Location: Ballroom BC**

#### Location: Flagstaff Room

#### Session 2A: Public Outreach

**Moderated by: Jeff Biggs, Tucson Water**

1:30 pm - 3:00 pm Customer Outreach for Tucson's Recycled Water Program // Fernando Molina, Tucson Water

Beyond the Mirage: The Future of Water in the West // Cody Sheehy, Video Producer, University of Arizona (Wi-Fi will be provided for the interactive portion of this presentation - bring your iPads or tablets)

#### Location: Ballroom A

#### Session 2B: Advances in Research

**Moderated by: Adam Festger, Trojan**

DPR Decision Tool: Nanofiltration Rejection Model for Recalcitrant CECs // Steven Jones, Garver USA

Contaminants of Emerging Concern: Environmental Fate and Transport // Clinton Williams, USDA-ARS

The Realities of Antibiotic Resistance and its Connection to Water Reuse // Jean McLain, University of Arizona



3:00 pm - 3:30 pm Break Sponsored by HDR, Inc. and Montgomery & Associates

**Location:** Flagstaff Room  
**Session 3A: Smaller Community Experience**  
**Moderated by:** Erin Young, City of Flagstaff  
Preserving Options // Charles Mosley, City of Sedona  
On the Water Hunt – Marana’s search for renewable supplies // John Kmiec, Town of Marana  
Reduce, Reuse, Recycle - Smart Investment With WIFA // Melanie Ford, Water Infrastructure Finance Authority of Arizona

**Location:** Ballroom A  
**Session 3B: Inland Potable Reuse**  
**Moderated by:** Rob McCandless, Brown and Caldwell  
Potential for Accumulation of Recycled Water Contaminants // Peter Fox, Arizona State University  
DPR Pilot Testing Results for El Paso’s Advanced Water Purification Facility //George Maseeh, Arcadis  
Comparing the Sustainability of RO- and Non-RO Based Potable Reuse Treatment Schemes // Jim Lozier, CH2M

5:30 pm & 6:30 pm Shuttles to Dinner Sponsored by Stantec and Sundt // Location: Hotel Lobby Entrance

6:00 pm - 7:15 pm Reception and Poster Contest // Location: Arizona Snow Bowl Hart Prairie Lodge

7:15 pm - 9:00 pm Dinner // Location: Arizona Snow Bowl Hart Prairie Lodge

8:45 pm & 9:15 pm Return Shuttles Sponsored by Stantec and Sundt

## Tuesday, July 26<sup>th</sup>

7:30 am - 8:30 am Registration and Breakfast Sponsored by Hazen and Sawyer & Trojan Technologies  
Location: Ballroom BC

**Location:** Ballroom BC  
**Session 4A: Future of Reuse In Arizona**  
**Moderated by:** Channah Rock, UofA  
8:30 am - 10:00 am ADEQ Reclaimed Rules // Chuck Graf, ADEQ  
The Advisory Panel on Emerging Contaminants (APEC): A Progress Report // Dan Quintanar, Tucson Water  
Guidance Framework Document for Arizona Potable Reuse // Jeff Mosher, National Water Research Institute

10:00 am - 10:15 am Break Sponsored by NCS and PCL

**General Session**  
**Moderated by:** Guy Carpenter, aquaTECTURE  
10:15 am - 12:00 pm **Keynote Address:**  
1. Guy Carpenter, President, WaterReuse Association  
2. Doug Owen, Co-Chair, Water Environment and Reuse Foundation (WERF) - How Research needs are Driven by the Diversification of Reuse Options  
3. Sarah Porter, Director, Kyl Center for Water Policy, Morrison Institute, ASU

12:00 pm Closing Remarks