CHAPTER MEETING

11 OCTOBER 2016
11:00 AM – 1:00 PM

WESTERN MUNICIPAL WATER DISTRICT
14205 Meridian Parkway, Riverside, CA 92518
First Floor Training Room (120)
CHAPTER BUSINESS:

WRCA Leg/Reg Committee Representative Appointment:
Andy Ramirez, Parks & Streets Superintendent, City of San Jacinto

WRCA Awards Committee Representative Appointment:
Mike Boeck, Senior Project Manager, MBI

Ad Hoc Committees to be considered:
Non Potable Reuse (NPR) Committee
New Technology Committee
Public Relations & Outreach Committee

LUNCH: Provided by Infrastructure Engineering Corporation

MESSAGE FROM THE PRESIDENT:
Guy Carpenter: Support From National For Our Chapter & Members

LEG/REG UPDATE:
DPR special briefings summary by: Dave Ahles, EMWD

OPEN FORUM:
Desalting of water is usually associated with oceans, but not in the Inland Empire. Western began investing in desalting technology two decades ago to diversify its water supplies with construction of the Arlington Desalter, which was the first groundwater desalter created in Southern California.
CALIFORNIA SECTION APPOINTMENTS:

WRCA Leg/Reg Committee Representative Appointment:
Andy Ramirez, Parks & Streets Superintendent, City of San Jacinto

WRCA Awards Committee Representative Appointment:
Mike Boeck, Senior Project Manager, MBI
AD HOC COMMITTEES FOR CONSIDERATION:

- Non Potable Reuse (NPR) Committee
- New Technology Committee
- Public Relations & Outreach Committee
AD HOC COMMITTEE PARTICIPATION:

✓ Number of Committee Members: up to 7 on each
✓ Officers: Chairman; Secretary (appointed by Committee members)
✓ Terms: Two years as member, one year as officer
✓ Meetings: First Tuesday, every other month, normally by teleconference

TO VOLUNTEER: CONTACT JANET FORDUNSKI, Chapter Secretary, jfordunski@rmcwater.com
NON POTABLE REUSE (NPR) COMMITTEE

- Track and compile NPR technology and use in the IE, and public agency interaction with users and the public.
- Distribute new information to members, increase awareness of NPR use in the region, and create a forum for sharing best practices and lessons learned on irrigation design, component and plant selection, long term affects, and ongoing maintenance to ensure sustainable recycled water use.
NEW TECHNOLOGY COMMITTEE

- Track and compile emerging indirect potable reuse (IPR) and direct potable reuse (DPR) technology, as well as new wastewater treatment technologies of interest.

- Identify studies, pilot and full-scale projects in the Inland Empire, as well as applicable national and global information.

- Distribute new information to members, and bring awareness of how IPR, DPR, and other new treatment technology is evolving in the region and around the world.
PUBLIC RELATIONS AND OUTREACH

✓ Increase awareness and interest in the WateReuse Association and Inland Empire Chapter activities.
✓ Recruit and welcome new members, and maintain active engagement of all members through participation in industry outreach activities and maintenance of the Chapter’s social media pages.
✓ Members will work with the Director of Membership & Community Outreach to produce the Chapter’s Newsletter.

# MEMBRANEPOWER    # PURPLEISTHENEWBLUE
Guy Carpenter
President, National WaterReuse Association
Association Board of Directors for 6 years

- BS in Chemistry from Northern Arizona University, PE (Civil) in Arizona.
- 25-year Senior water executive
- Central Arizona Project Board Member - delivering Colorado River water to 85% of Arizona’s population.
- Advisory Board member: U of A Water Resources Research Center, and ASU Kyl Center for Water Policy at the Morrison Institute.
- Prior Carollo Engineers’ National Water Reuse Technical Practice Director
- Senior Vice President of Strategic Operations for AquaTecture
WateReuse Association
Delivering Value to Our Members

- National Advocacy
- State Support
- Communications
- Conferences
- Networking
- Membership
National Advocacy: More Focused

Leadership

• National Legislative & Regulatory Committee reorganized with balanced representation of voting members and great participation

Action

• Successful Washington Fly In – next one is March 19-25, 2017
• Study on State Revolving Funds requested by Senate Committee on Environment and Public Works and quoted in the Water Resources Development Act of 2016 S.2848

Tools

• Eight Position Papers (four on policy, four on funding), all posted on the website
• Signed onto more than 20 letters of support for a variety of policies
• Coming Soon: “Members Only” Toolkit (proposed language for legislation, talking points, committee profiles)
Committee Members

- Paul Jones, Chair, Southern California
- Prabhakar Somavarapu/Sac Regional Sanitation Agency and Elizabeth Wells/El Dorado Irrigation District, Northern California
- Jeff Biggs, Arizona
- Richard Leger, Colorado
- Bart Weiss, Florida
- Jordan Bunker, Nevada
- Eva Steinle-Darling, Texas
- Gilbert Trejo, At-Large
- Sharon Green, At-Large
State Support: More Responsive

State Information Exchange Committee

- Established last year to promote communication and knowledge sharing among the state sections
- Adopted a “charter” which establishes mission, goals, objectives to guide the committee
- Building infrastructure to improve communication, collaboration and coordination to support state efforts

Actively Provide Comment Letters on Proposed Regulatory Reform

- Prepare and submitted letters on proposed regulatory reform (Nevada)
- Provide research to help guide comment letters (Nevada and Florida)

Support for State Initiatives

- Staff support for conferences (California), workshops (Oklahoma) and special events (Florida Homebrew Beer Tasting Contest)
- Staff support for communications and membership drives
Changing Minds – One Pint at a Time

• Start a conversation about reuse and the nature of water

• Demystify water purification and the urban water cycle

• Showcase innovative water technology to inform how water can be used
Communication: More Modern & Relevant

New Brand
- Identity Guidelines
- Section Logos

New Website
- Sessions: 119,879
- Users: 69,095
- Pageviews: 334,588
- Pages per Session: 2.79
- Length of Session 2:39

Webinars
- 30 events (including 20 in partnership with Research Foundation)
- 4,520 views
Communication: More Modern & Relevant

Press
• 35 Press Releases
• 5 TV/Radio Interviews
• 4 OpEds (Including New York Times)

Social Media
• 3,209 Twitter followers (2,061 new followers); 952 mentions; 899 retweets
• 2,647 LinkedIn followers, 14,568 post impressions
• 816 Facebook page likes
• 15,199 YouTube views

World Water: Water Reuse & Desalination
• Partnership with WEF
• 24,000 print and digital distribution
Conferences: More Knowledge Sharing

31st Annual Symposium, 2016
- Tampa, FL
- Attendees: 525

2015 Industrial Reuse Conference
- Austin, Texas
- Attendees: 225

2016 Potable Reuse Summit
- Oklahoma City, Oklahoma
- First event of this kind
www.iwareuse2017.org

Call FOR ABSTRACTS

Abstracts are Due October 21, 2016
Networking: More Services

Job Bank
• Introductory offer of $30 per job per 30 day job posting

Member Directory
• Members Only Directory
Water Environment & Reuse Foundation

Merger Update

• Successful merger of WateReuse Research Foundation and Water Environment Research Foundation

• Unanimously approved by both Boards of Directors on May 5

• Total research portfolio valued at more than $200 million

• Continued partnership with WateReuse Association – Melissa Meeker is the Executive Director for both organizations, share space, overlap of many Directors on the Board

• Benefits of partnership include free and discounted research and discounts on the annual research conference
LEG/REG UPDATE:

DPR Special Briefing Summary: Dave Ahles, EMWD
Briefing on Draft Report to Legislature for Feasibility of Developing Uniform DPR Criteria

2016
State Water Resources Control Board
# Statutory Requirements

<table>
<thead>
<tr>
<th>Task</th>
<th>Deadline</th>
<th>Status</th>
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<tbody>
<tr>
<td>Adopt Groundwater Recharge Regulations</td>
<td>Dec 31, 2013</td>
<td>✓</td>
</tr>
<tr>
<td>Adopt Surface Water Augmentation Regulations</td>
<td>Dec 31, 2016</td>
<td>On track</td>
</tr>
<tr>
<td>Submit Final Report to the Legislature</td>
<td>Dec 31, 2016</td>
<td>On track</td>
</tr>
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Investigation must include

1. Recommendations of the Expert Panel;

2. Recommendations of the Advisory Group;

3. Regulations and guidelines on DPR from jurisdictions in other states, federal government, and other countries;
Advise State Water Board on public health issues and scientific and technical matters regarding:

• Development of uniform water recycling criteria for indirect potable reuse through surface water augmentation
• Investigation of the feasibility of developing uniform water recycling criteria for DPR
• Assess needs for additional research and recommend an approach for completion
Safe Practice to Criteria

• Our experience with the development of IPR criteria has shown that it is a sizable step, however,
  – from being confident that something can be safe
  – to producing criteria that assure that it will be accomplished safely, in every case, all the time.
Knowledge Gap

Chemical Peak Attenuation

• Regarding short-term discharges of chemicals into the wastewater collection system -

• “… incorporating a final treatment process … after the advanced water treatment train may result in some “averaging” of these potential chemical peaks.”

  – How much “averaging” is necessary and how do we specify it?
Further Research

1. Source control and monitoring
2. LRV risk assessment
3. Confirm wastewater data
4. Outbreak data
5. Average peaks
6. Identify unknowns
EP Findings

It's technically feasible

Multiple barriers (A+B+C+D=Good)

Diverse treatment processes

Parallel trains

Parallel trains

Chemicals => Chemicals

Chemical diversion of off-spec water
ADVISORY GROUP

Highlights and Recommendations
Tasks of the Advisory Group

• Advise the Expert Panel regarding investigation of the feasibility of developing uniform water recycling criteria for DPR

• Make recommendations to DDW on any other relevant topics such as:
  – Practical considerations for regulations that are protective of public health and achievable by project proponents
Advisory Group Recommendations

• Consensus on 19 recommendations
• DPR, when implemented appropriately, has the potential to provide a reliable source of water supply that is protective of public health for communities in California
• Two types of recommendations:
  – Related to the feasibility of developing criteria
  – Not related to the feasibility of developing criteria
### Advisory Group Recommendations

#### Examples by Type

<table>
<thead>
<tr>
<th>Related to the Feasibility of Developing Criteria</th>
<th>Not Related to the Feasibility of Developing Criteria</th>
</tr>
</thead>
</table>
| • Wastewater source control, operation optimization, and planning requirements for DPR  
  • Operator training and certification  
  • Technical, Managerial, and Financial (TMF) capacity  
  • Changes to Consumer Confidence Report  
  • Research priorities | • Communications and public outreach  
  • Phasing of potable reuse regulations  
  • Potable reuse terminology  
  • Environmental justice  
  • Environmental impact  
  • Impact to water rates |
Operator Certification Recommendations

• A training and certification program is needed for operators employed at advanced water treatment facilities (AWTF)

• Protection of public health is paramount for successful implementation of DPR projects
  – Operation by experienced and well-trained staff to make sure the treatment processes function properly, regulatory requirements are met consistently, and water produced is safe for public consumption
Investigation on the Feasibility of Developing Uniform Water Recycling Criteria for Direct Potable Reuse

STATE WATER RESOURCES CONTROL BOARD

Report to the Legislature
September 2016 - Public Review Draft

In Compliance with Water Code Section 13563

STATE OF CALIFORNIA
Gavin Newsom, Governor

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
Matthew Rodriquez, Secretary

STATE WATER RESOURCES CONTROL BOARD
P.O. Box 100 Sacramento, CA 95812
(916) 322-3360

Web page: http://www.waterboards.ca.gov

DRAFT
Report Contents

• Exec summary
• Introduction, history, projects
• Independent input
• Feasibility
• Conclusions
• Implementation plan
• Appendix
DPR Types

1. Small environmental buffer

2. Inlet to SWTP

3. Inlet to distribution system
Conclusions
Schedule

• Public Comment Period for Draft Report
  – 45 days per CWC § 13563
  – Comments are due Oct 25, 2016, at noon

• Public Workshops
  – Oct 4, 2016 at Metropolitan WD, Los Angeles
  – Oct 6, 2016 at CalEPA HQ, Sacramento

• Final Report to the Legislature: Dec 31, 2016
Submission of Written Comments

- Written comments are due **Oct 25, 2016, at noon**
- Send comment letters addressed to: **Jeanine Townsend, Clerk to the Board**
- Indicate on subject line: “Comment Letter – Report to the Legislature on DPR”
- By e-mail: (PDF format, max 15 MB) [commentletters@waterboards.ca.gov](mailto:commentletters@waterboards.ca.gov)
- By fax: (916) 341- 5620
- By mail:
  - **Hand/ Courier Delivery**
  - **U.S. Mail**
    - 1001 I Street, 24th Floor
    - P.O. Box 100
    - Sacramento, CA 95814
    - Sacramento, CA 95812-0100
Subscribe to SWRCB Listserve for updates:

http://www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml

Drinking Water → “Recycled Surface Water Augmentation & Direct Potable Reuse”

DDW Report to the Legislature:

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/rw_dpr_criteria.shtml

DDW Contact

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OPEN FORUM

ADJOURN