



Tuesday, April 7, 2009

7:30 a.m. - 4:30 p.m.

6 Professional Development Hours

(Approved for AZ Water/Wastewater)

Scottsdale Water Campus

8787 East Hualapai Dr., Scottsdale, AZ 85255

Space is limited to 30 attendees

Operation, Maintenance & Repair of Membrane Filtration Systems Workshop

- 7:30 - 8:00** **Registration / Check-in / Refreshments**
- 8:00 - 8:15** **Introduction & Welcome**
Lynne Gulizia, SWMOA Board Member
- 8:15 - 8:30** **Workshop Overview**
Art Nunez, City of Scottsdale
- 8:30 - 9:00** **Cost to Maintain a Low PSI MF System on Surface Water**
Gary Witcher, CalWater
- 9:00 - 9:30** **Interchangeability of Identical MF Modules between Water & Wastewater Treatment Systems**
Mike Helton, Arizona American Water
- 9:30 - 9:45** **Refreshment Break**
- 9:45 - 10:15** **Start-up & Commissioning of a Membrane Bioreactor**
Don Hawkes, City of Tempe
- 10:15 - 10:45** **Prescreening Breach of a Submerged MF System - Now What?**
Binga Talabi, City of Scottsdale
- 10:45 - 11:00** **Out with the Old & In with the New - Upgrade of a Pressurized MF System on Tertiary Effluent**
Buddy Boysen, SPI Engineering Consultant
- 11:00 - 11:45** **Tour of Scottsdale's Advanced Water Treatment Process - a 16 mgd MF/RO System on Tertiary Effluent for Potable Reuse**
Brian Smith, City of Scottsdale
- 11:45 - 12:30** **Lunch at Scottsdale Water Campus**
- 12:30 - 1:00** **Travel to Chaparral Water Treatment Plant for Hands-On Portion**
(30 mgd submerged MF System on Surface Water for Potable Water Distribution)
- 1:00 - 4:15** **Break into Two Groups:**
 - 1. Plant Tour of Chaparral WTP**
Art Nunez, City of Scottsdale
 - 2. Laboratory Bench Top SDI Analyses**
Binga Talabi, City of Scottsdale

- 3. Isolation of 3 mgd Train**
Brian Paulson, City of Scottsdale
- 4. Removal of 52 Module Cassette**
Kris Keil, City of Scottsdale
- 5. Removal & Repair of Single Module - Zenon 500 - D MF System**
Don Henderson, City of Scottsdale
- 3:00 - 3:15** **Refreshment Break**
- 4:15 - 4:30** **Workshop Wrap-up**
Lynne Gulizia, SWMOA Board Member

List of Hotels Near the Scottsdale Water Campus:

- Carefree Resort & Villas** (11 miles to facility)
37220 Mule Train Rd., Carefree, AZ 85377, Ph: 888-488-9034
- Country Inn & Suites by Carlson Scottsdale** (5 miles to facility)
10801 N. 89th Pl., Scottsdale, AZ 85260, Ph: 888-201-1746
- Extended Stay Deluxe Phoenix - Scottsdale** (6 miles to facility)
10660 N. 69th St., Scottsdale, AZ 85254, Ph: 480-483-1333

Special Thanks to Our Sponsors:

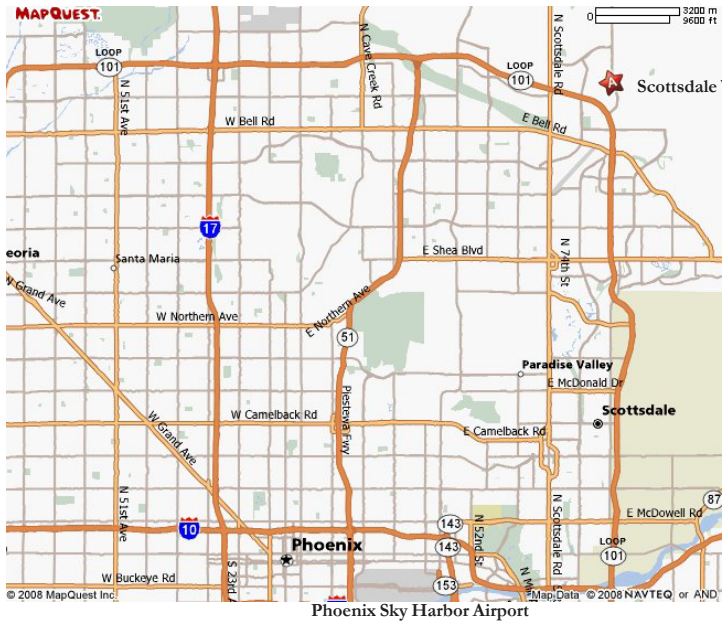


Special Thanks to Our Host Facility:



Supporting Affiliation:





City of Scottsdale
Scottsdale Water Campus
8787 East Hualapai Dr.
Scottsdale, AZ 85255
Ph: 480-312-8732

Directions to Scottsdale Water Campus:
 Take the AZ 101 Loop North (Pima Freeway). Take the Pima Rd. exit (exit 36) toward Princess Dr. Stay straight to go onto N. Pima Rd. Turn Right to remain on N. Pima Rd.. Turn Left onto E. Hualapai Dr. (first left-turn after the first traffic signate at Downing-Olson).

4/7/09 - REGISTRATION FORM

Southwest Membrane Operator Association (SWMOA)

PHONE: 888-463-0830 ♦ **FAX:** 772-463-0860

EMAIL: admin@swmoa.org **WEB:** www.swmoa.org

1035 East Vista Way, #103 ♦ Vista, CA 92084-4606

Name: _____ Title: _____

Company: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Cell: _____ Fax: _____

E-mail: _____ Website: _____

Member of (check all that apply): SWMOA - Membership# _____ AMTA - Membership# _____

License Type: _____ Grade (i.e., 1, 2, 3, etc.): _____ Lic.#: _____

SWMOA - Operation, Maintenance & Repair of MF Systems Training:

Amount

***Registration and Payment must be received by event date:**

Members/Affiliates (must be from the list above) \$100 _____

Non-Members - Certified Ops (includes 1 year Div.1B SWMOA membership) \$150 _____

(For other types of membership-please contact SWMOA for membership application)

***Limited space - available to the first 30 paid registrants**

Need 6 Professional Development Hours for AZ Water/Wastewater: \$ 25 _____

Total Registration Fee \$ _____

Cancellations/Refunds...

Written cancellation requests received on or before March 24, 2009 will receive a refund, less a \$50 processing fee. Full payment is required if cancellation is received on or after March 25, 2009 - no refunds and no credits for future events will be granted. However, substitutions may be made at any time. SWMOA reserves the right to make changes in programs and speakers, or to cancel programs when conditions beyond its control prevail. Every effort will be made to contact each enrollee if a program is cancelled. If a program is not held, SWMOA's liability is limited to the refund of the program fee only.

PAYMENT METHOD: Payable to: Southwest Membrane Operator Association

Mail to: 1035 East Vista Way, #103, Vista, CA 92084-4606

Check Enclosed for \$ _____ Please Invoice PO# _____

Visa M/C Amex Card # _____ + _____

(16 #'s + 3 #'s listed in the signature area on back of Visa/MC or + 4 #'s on front of AX)

Name on CC: _____

CC Mailing Address: _____ CC Mailing Zip: _____

Signature _____ Expiration Date: _____

Special Needs:	
<input type="checkbox"/>	Wheelchair Access
<input type="checkbox"/>	Visually Impaired
<input type="checkbox"/>	Hearing Impaired
<input type="checkbox"/>	Vegetarian Meals
<input type="checkbox"/>	Other: _____