Reverse Osmosis Operations & Maintenance Workshop
Thursday, April 12, 2018
8:00 a.m. - 5:15 p.m. (Space limited to 30 attendees)
8 Contact Hours Water - (TCEQ Course #1342 Approved)

City of Fort Worth Westside WTP
12200 Old Weatherford Rd., Fort Worth, TX 76008

7:30 - 8:00 Registration & Continental Breakfast
     Moderator Justin Sutherland, Ph.D., P.E., Carollo Engineers, Inc.
8:00 - 9:00 Session 1: RO Operations & Maintenance - Part 1
     “Introduction to Membrane Systems”
     Justin Sutherland, Ph.D., P.E., Carollo Engineers, Inc.
9:00 - 10:00 Session 2: RO Operations & Maintenance - Part 2
     “Water Quality, RO/NF Pretreatment, and Monitoring”
     Justin Sutherland, Ph.D., P.E., Carollo Engineers, Inc.
10:00 - 10:30 Refreshment Break
10:30 - 11:30 Session 3: RO Operations & Maintenance - Part 3
     “Turbidity, Control Systems, and Post Treatment”
     Justin Sutherland, Ph.D., P.E., Carollo Engineers, Inc.
11:30 - 12:30 Session 4: Data Interpretation
     “Normalization and Formulas”
     Robert “Buddy” Boysen, P.E., Hazen and Sawyer
12:30 - 1:00 Lunch (included)
1:00 - 2:00 Session 6: RO Chemical Cleaning - Part 1
     “Clean-In-Place, Fouling and Scaling”
     Tim Kirk, P.E., Avista Technologies, Inc.
2:00 - 3:00 Session 7: RO Chemical Cleaning - Part 2
     “Chemical Selection and Cleaning Procedure”
     Tim Kirk, P.E., Avista Technologies, Inc.
3:00 - 3:15 Refreshment Break
3:15 - 5:15 Session 5: RO Troubleshooting
     “Understanding & Solutions to Operational Issues”
     Robert “Buddy” Boysen, P.E., Hazen and Sawyer

Special Thanks to Host Facility:

SCMA is proud to offer this TCEQ Approved 8 hour course, Reverse Osmosis Operations & Maintenance Workshop. Completion of this course complies with the requirement in Title 30, Texas Administrative Code (TAC) §290.46(e)(2)(D) for training of RO/NF Plant Operators.

Hotels in the Area:
Holiday Inn Express & Suites Fort Worth West (5.7 miles)
2620 S Cherry Ln, Fort Worth, TX 76116
(817) 882-6234

Comfort Inn & Suites Fort Worth West (5.9 miles)
7801 Scott St, White Settlement, TX 76108
(817) 246-2402

Best Western Fort Worth Inn & Suites (4.4 miles)
201 W Loop 820 N, Fort Worth, TX 76108
(817) 246-8777

Sponsorship Opportunities

Major Sponsor available at $1000.00
Lunch Sponsor available at $500.00
Break Sponsor available at $350.00 (per break)
Click here for more information and sponsorship form
**REGISTRATION FORM**

**South Central Membrane Association (SCMA)**

**PHONE:** 512-617-6529  ♦  **FAX:** 772-463-0860

**EMAIL:** custsrv@scmembrane.org  ♦  **WEB:** www.scmembrane.org

14900 Avery Ranch Blvd.; Ste. C200 #300, Austin, TX 78717

**Name:** ___________________________  **Title:** ___________________________

**Company:** ___________________________

**Mailing Address:** ___________________________

**City:** ___________________________  **State:** _________  **Zip:** ________

**Phone:** ___________________________  **Cell:** ___________________________  **Fax:** ___________________________

**E-mail:** ___________________________  **Website:** ___________________________

I would like to receive email messages from SCMA about Events or Activities: □ YES □ NO

(Attendee materials will be sent approx. 2 weeks after event, provide an email address compatible to receive and/or access Hightail messages. If other than listed above, provide here:__________________________)

**Need Contact Hours:** □ State: ______  **License Type:** _________  **Grade (i.e., 1, 2, 3, etc.):** ______  **Lic.#:** ________

**SCMA - Workshop (includes CEUs/PDHs):**

<table>
<thead>
<tr>
<th>Amount</th>
<th><strong>Registration and Payment must be received by event date:</strong></th>
<th><strong>Mar. 23</strong></th>
<th><strong>On/After Mar. 24</strong></th>
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<tbody>
<tr>
<td></td>
<td><strong>Members</strong></td>
<td>$150</td>
<td>$200</td>
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<tr>
<td></td>
<td><strong>Non-Members</strong></td>
<td>$200</td>
<td>$250</td>
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(For other types of membership-please contact SCMA for membership application)

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

**Total Registration Fee** $_________

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**Cancellations/Refunds...**

Written cancellation requests received on or before March 23, 2018 will receive a refund, less a $50 processing fee. Full payment is required if cancellation is received on or after March 24, 2018. No refunds and no credits for future events will be granted. However, substitutions may be made at any time. SCMA 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, SCMA's liability is limited to the refund of the program fee only.

**PAYMENT METHOD:**

Payable to: South Central Membrane Association
Mail to: 14900 Avery Ranch Blvd.; Ste. C200 #300, Austin, TX 78717

☐ Check Enclosed for $___________  ☐ Please Invoice

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For Security Purposes, SCMA encourages you to use the Easy Online Registration and Secure Credit Card and eCheck Payment Processing Now Available at: [WWW.SCMEMBRANE.ORG](http://WWW.SCMEMBRANE.ORG)