



Reverse Osmosis Operations & Maintenance Workshop

Thursday, February 7, 2019

7:30 a.m. - 5:15 p.m. (Space limited to 30 attendees)

8 Contact Hours Water - (TCEQ Course #1342 Approved)

City of Abilene

Hamby Wastewater Treatment Facility

19000 County Road 309, Abilene, TX 79601

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., Water Standard
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., Water Standard

Special Thanks to Host Facility:



Thanks to the Sponsors:

Major



Lunch

Enprotec / Hibbs & Todd, Inc.

King Lee Technologies

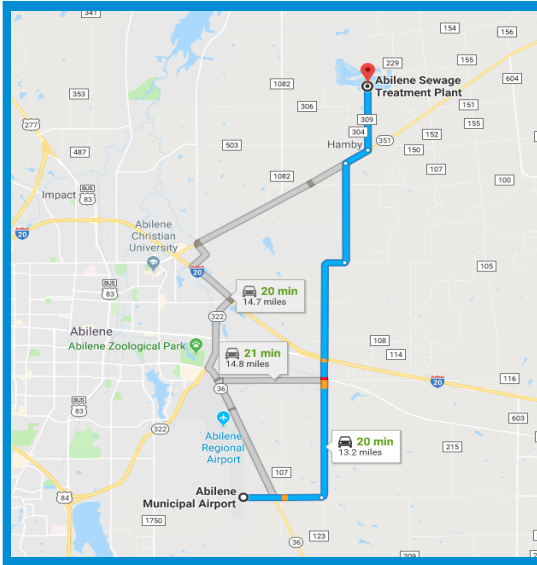
SCMA is proud to offer this TCEQ Approved 8 hour course, Reverse Osmosis Operations & Maintenance Workshop. Completion of this course complies with the requirement in Title 30, Texas Administrative Code (TAC) §290.46(e)(2)(D) for training of RO/NF Plant Operators.

Hotels in Abilene, TX

Courtyard by Marriott Abilene Northeast (7.1 miles)
2141 Scottish Rd, Abilene, TX 79601
(325) 673-0400

Holiday Inn Express & Suites Abilene (7.4 miles)
1802 E Overland Trail, Abilene, TX 79601
(325) 675-9800

Quality Inn (7.4 miles)
1758 E, I-20, Abilene, TX 79601
(325) 676-0203



City of Abilene

Hamby Wastewater Treatment Facility

19000 County Road 309, Abilene, TX 79601

If Lost - Ph: 325-548-2237 or 325-660-6401

Directions to Plant from Municipal Airport:

Exit the Airport & head northeast on Elmdale Rd toward TX-36 N for 1.8 mi.; Turn left onto Elmdale Rd S, then in 6.5 mi. Turn left onto Elmdale Rd N; in 2.6 mi. Turn right onto TX-351 E; after .6 mi. Turn left onto Co Rd 309 and in 1.7 mi. you have arrived at 19000 Co Rd 309, Abilene, TX 79601

REGISTRATION FORM

South Central Membrane Association (SCMA)

PHONE: 512-617-6529 ♦ **EMAIL:** support@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: _____
 E-mail: _____ Website: _____

Special Needs:
 Food Allergies (provide specifics)
 Gluten Free
 Halal Meals
 Vegan Meals
 Vegetarian Meals
 Wheelchair Access
 Other: _____

- YES NO Emails about SCMA/Affiliate Events, Newsletters, and/or Upcoming Activities are welcome.
 YES NO Networking with other SCMA Members, Operators, Attendees, Speakers, Moderators, Sponsors, Board Members, and others interested with membranes is approved, share my contact information (cell phone # will not be shared).

(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):

*Registration and Payment must be received by event date:	Jan. 24	On/After Jan. 25	<u>Amount</u>
SCMA Members	\$175	\$225	_____
Non-Members	\$225	\$275	_____

(Please contact SCMA for membership application)

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

Total Registration Fee \$ _____

Cancellations/Refunds...

Written cancellation requests received on or before **Jan. 24, 2019** will receive a refund, less a \$50 processing fee. Full payment is required if cancellation is received on or after **Jan. 25, 2019** - 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

For Security Purposes, SCMA encourages you to use the Easy Online Registration. Secure Credit Card and eCheck Payment Processing is Now Available at:

WWW.SCMEMBRANE.ORG