Monday, October 15, 2018
8:30 a.m. - 4:15 p.m. (Space limited to 40 attendees)
CA Contact Hours (CA Water - (8 Credit Hours Approved))

Eastern Municipal Water District
Operation & Maintenance Office
2270 Trumble Rd., Perris, CA 92572
If Lost - Ph: 951-928-3777 x0

RO/NF Membrane Operations & Troubleshooting

7:30 - 8:30  Registration & Continental Breakfast
8:30 - 11:30  SESSION 1: Technology, Overview & Tour
Moderator  Justin Brazil, Sweetwater Authority
8:30 - 9:00  Challenges in Groundwater Treatment by NF/RO in South Carolina
Silvana Ghiu, Ph.D., Hazen and Sawyer
9:00 - 9:30  High Flow Large Diameter Filters for Municipal Water & Wastewater Treatment I
Billy McCowan, 3M Separation and Purification Sciences Division
9:30 - 10:00  Refreshment Break
10:00 - 10:30  Membrane System Cleaning
Rob Goodlett, Avista Technologies, Inc.
10:30 - 11:00  RO Membrane Autopsy Provides Invaluable Info about System Performance and Diagnosis
Nagham Najeeb, Avista Technologies, Inc.
11:00 - 11:30  Liqui-Cel Dissolved Gas Control
Billy McCowan, 3M Separation and Purification Sciences Division
11:30 - 12:30  Lunch
12:30 - 4:15  SESSION 2: Facility Tour, Demonstrations, Operations/Troubleshooting Group Discussion
Moderator  Wayne Wright, Irvine Ranch Water District-Retired
12:30 - 2:00  Operations/Troubleshooting Group Discussion
Wayne Wright, Irvine Ranch Water District-Retired
2:00 - 2:30  Plant Overview - Menifee/Perris Desalination Facility
Khos Ghaderi, Eastern Municipal Water District
2:30 - 3:00  Refreshment Break and Drive to Facility
3:00 - 4:00  Facility Tour: Eastern Municipal Water District
Phil Lancaster, Eastern Municipal Water District
4:00 - 4:15  Workshop Wrap-Up
Wayne Wright, Irvine Ranch Water District-Retired

Special Thanks:
Host Facility:

Break Sponsor:
King Lee Technologies

Registration Now Open
www.swmoa.org
1-888-463-0830
SWMOA - Workshop:
*Registration (includes CEUs/PDHs) and Payment must be received by event date:

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Members</td>
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<tr>
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<tr>
<td>Non-Members - Non-Ops-Individual</td>
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(For other types of membership-please contact SWMOA for membership application)

*Limited space - available to the first 40 paid registrants

Written cancellation requests received on or before Oct. 1, 2018 will receive a refund, less a $50 processing fee. Full payment is required if cancellation is received on or after Oct. 2, 2018 - 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.

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