



## MESSAGE FROM THE PRESIDENT

By: **ERIC OWENS**, *Separation Processes, Inc.*; SWMOA President

Dear SWMOA members,

This year we've gained four new board members, and next year we'll lose our last founding board member to term limits. Immediately following the Annual Symposium in San Diego, past and present board members will participate in a strategic planning session to map the future of SWMOA. As part of this planning session, we'll be evaluating our organization from the ground up, assessing what we've been doing right, and even what we've been doing wrong. The intent is to strengthen SWMOA, to adopt new ideas that will benefit SWMOA and its membership, and abandon old concepts that haven't been successful. So, while it remains to be seen exactly what will come out of this effort, we are striving to make SWMOA better for our members and easier for others to step in and take over control of this organization. Are you ready to take the reins yet?

*Eric R. Owens*  
Eric Owens

SWMOA President

## SWMOA'S BOARD OF DIRECTORS ELECTIONS

By: **JERRY VILANDER**, *Mesa Consolidated Water District*; SWMOA Nominations/Election Committee

The 2014 Board of Directors elections will be here sooner than you think. SWMOA is seeking dedicated members to take part in the election process. This is also a tremendous opportunity for a deeper level of networking and establishing professional relationships that has a great benefit to you and your agency. Look to the staff around you and encourage participation. So if you or your operators are interested in providing input, guidance, and direction to the Southwest Membrane Operator Association, please contact Jerry Vilander ([jerryv@mesawater.org](mailto:jerryv@mesawater.org)) or Janet Jaworski ([admin@swmoa.org](mailto:admin@swmoa.org)) to express your interest.

SWMOA's  
2013 Annual Symposium! on April 22-24, 2013

"Ins and Outs of Membrane Technology"

See Article on Page 2

Register Online Now!

### Inside this issue:

2013 Annual Symp.....Pg.2
Operator Certification Update...Pg.3
Legislative Update.....Pg.3
Letter from Affiliate.....Pg.3
Maui Workshop Recap.....Pg.4
Letter from the Editor.....Pg.5
Board of Directors.....Pg.5
Committee Chairs.....Pg.6
Welcome New Members.....Pg.7

Check out the Upcoming  
SWMOA Workshops Online  
at:

[SWMOA Calendar of Events](#)

### We Need Your Input for the SWMOA News

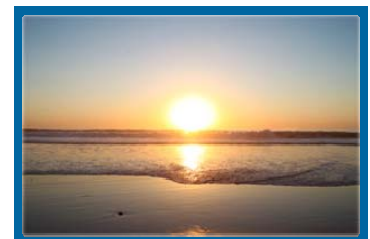
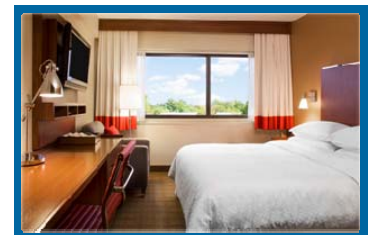
- Share your experiences with others
- Take this opportunity to place your company or plant in the news
- Member contributions are welcome. Please contact us at [publications@swmoa.org](mailto:publications@swmoa.org)

# MARK YOUR CALENDARS NOW FOR THE 2013 ANNUAL SYMPOSIUM!

By: **CHRISTIANA DAISY, P.E.**, *West Basin Municipal Water District; SWMOA Board of Directors*

The top ten reasons to attend the 2013 Annual SWMOA Symposium:

10. Meet others in the membrane field - this can lead to new opportunities for collaborative efforts
9. Gain inspiration, have fun and learn a whole bunch of new stuff you can take back to your workplace
8. San Diego is a great location in April
7. Keep current on technology and operational techniques - you are among a vast melting pot of expertise and interest
6. Great addition to your resume
5. Create networking opportunities - initiate unique, personal, and insightful conversations you can have with other people outside of the formal presentations
4. Gain visibility in your field
3. Share your research findings with others in your field
2. Learn what others in the field are doing can lead to new ideas
1. Maintain your contact hours



Looking forward to seeing you at this year's SWMOA Symposium. Please register ASAP!

Registration is available on the SWMOA Website: [www.swmoa.org](http://www.swmoa.org) or call 888-463-0830.

## What You Will Learn

SWMOA has been dedicated to educating and training owners and operators of membrane systems for over 5 years. But the job is not done, it can never be done. SWMOA continues to work tirelessly to bring valuable information to our members. Day One at the Annual Symposium, the event begins with two exciting Keynote Speakers: first, Glenn Reynolds with a talk on "Raising the Bar", followed by Bob Yamada announcing the "Carlsbad Desalination Project – From Inception to Approval, The Insider's View". This will be followed by an Overview of Basic Applications including MF and RO basics, as well as water chemistry. Day Two will include presentations on MBR, Recycling and Tertiary Treatment and an informative Interactive Session. Day Three offers a little something for everybody, with basic overview of topics ranging from RO, NF, MF and UF. You will not want to miss this opportunity to obtain real-world knowledge and experience for yourself and your agency.

To view the brochure: ["Ins and Outs of Membrane Technology"](#) or [SWMOA 2013 Annual Symposium](#)

## OPERATOR CERTIFICATION UPDATE

**By: SCOTT McCLELLAND**, *Sweetwater Authority; SWMOA Program Chair*

At the December 2012 Board meeting, the Board of Directors voted to extend to all college students enrolled in a "water treatment technologies" certification program a one year free membership. On March 6, 2013, students from Cuyamaca Community College's Water 117 class were the first to sign up for this offer. Not only does this provide students with a free membership but it also provides exposure to members of the fastest growing treatment technology in the water treatment industry. This membership provides a reliable training avenue once students have entered the field and can immediately provide networking opportunities for future employment.

The SWMOA Board is interested in offering to all potential students this valuable opportunity. If you or your class would like to participate in this and/or have a Board member come to talk with your group, please e-mail SWMOA at [admin@swmoa.org](mailto:admin@swmoa.org). For those students that have signed up, you will receive a student rate on the fast approaching Annual Symposium, which is taking place in San Diego from April 22-24, 2013. Hope to see you there!

## LEGISLATIVE UPDATE

**By: TOM KNOELL**, *Orange County Water District; SWMOA Legislative Committee*

On March 28, 2013, the California Department of Public Health (CDPH) Drinking Water Program released its revised draft regulations for replenishing groundwater with recycled municipal wastewater. The current draft replaces the previous version released in November 2011. CDPH is required to adopt the revised groundwater replenishment regulations by December 31, 2013. Article 5.2 – Indirect Potable Reuse: Groundwater Replenishment, outlines the proposed requirements of Groundwater Replenishment Reuse Projects (GRRPs). Of particular interest to SWMOA is Section 60320.201 – Advanced Treatment Criteria, which addresses full advanced treatment using reverse osmosis (RO). GRRPs will be required to select RO membranes that meet a minimum sodium chloride rejection of 99.0% (99.2% nominal) as determined by ASTM testing standards. During the first month of operation, GRRPs will be required to demonstrate an RO permeate TOC concentration of no greater than 250ppb, based on a minimum of weekly sampling. This section also addresses the requirement for continuous, in-line monitoring to ensure RO membrane performance and integrity. For additional details and a complete copy of the latest Groundwater Replenishment Reuse (DRAFT) Regulation, please visit the CDPH website at: <http://www.cdph.ca.gov>

## LETTER FROM AFFILIATE

**By: ERIC OWENS**, *Separation Processes, Inc.; SWMOA President*

SWMOA is a regional affiliate of the American Membrane Technology Association (AMTA). For the past two years, the Membrane Technology Conference and Exposition (MTC) has been a joint effort between AWWA and AMTA. This year's conference (MTC13) was held February 25-28 in San Antonio, Texas. Several of SWMOA's board members were in attendance at MTC13, including Eric Owens, Tom Knoell, and Scott McClelland. While at MTC13, SWMOA President Eric Owens and Secretary Tom Knoell had the opportunity to sit down with AMTA's new Executive Director, Harold Fravel to discuss ways SWMOA and AMTA can better serve their respective members. This was a very productive meeting and promises to offer new ways for SWMOA and AMTA to benefit from one another. Eric Owens and SWMOA Past-President Scott McClelland also attended the AMTA board meeting following the 2013 MTC. Scott and Eric are both voting members of the AMTA board, with Scott as an elected AMTA Director and Eric serving as the appointed SWMOA Liaison. Also currently sitting on the AMTA board are past SWMOA board members Lynne Gulizia and Mehul Patel. If you're a SWMOA member but have never heard of AMTA, consider visiting their website to learn more about your national affiliate ([www.amtaorg.com](http://www.amtaorg.com)).

## MAUI WORKSHOP RECAP

By: **LYNNE GULIZIA**, *Toray Membrane USA, Inc.*; SWMOA Planning Committee Co-Chair



### Membranes in Paradise

#### AMTA/SWMOA Joint Workshop – Maui, Hawaii

The AMTA/SWMOA joint workshop December 12-13<sup>th</sup> was a great success. The 66 attendees were treated to two days of very tropical presentations, discussions and a tour of a working microfiltration plant on the island.

A brief power outage during one of the presentations led to the opportunity for some lively debate on proprietary vs non-proprietary UF systems. As this area of the industry evolves over the next several years, AMTA and SWMOA will continue to be your best resource to keep up with the growth and changes that are expected.

Presentations included discussions of the types of systems located on the islands, case studies as well as a good perspective from the Hawaii Department of Health on the regulatory considerations for the State for drinking water plants.

The social event gave us a great chance to network and as usual, the food was fabulous!

Thanks to Dr. Steve Duranceau for his help putting together the speakers and topics. I had many attendees tell me the workshop was very worthwhile and they hope to see us back in the islands again for more training and education soon. Let's not wait another five years to return to Membranes in Paradise!



## UPCOMING EVENTS

April 22-24, 2013

2013 Annual Symposium

"Ins and Outs of Membrane Technology"

Sheraton San Diego Hotel and Marina

San Diego, CA

July 11, 2013

Hands-On Ultrafiltration Membrane Plant

Operator Training Workshop

Encinitas, CA

October 22, 2013

One-day Technology Transfer Workshop

Stockton, CA

October 24, 2013

One-day Technology Transfer Workshop

Costa Mesa, CA



## LETTER FROM THE EDITOR

By: **TOM KNOELL**, *Orange County Water District*; SWMOA Secretary and Chair

It was mid-December when I came back to the office, took off the raingear and checked my e-mail. One of them was from a fellow SWMOA member. I opened the e-mail, clicked on the image, and there it was: our blue SWMOA baseball cap lying on the beach next to a beer, casting shadows on the Maui sand during sunset. For those of us less fortunate and unable to attend this AMTA/SWMOA workshop, I could only wonder what could have been – warm weather, shaved ice and a Loco Moco plate, as I glance at my raingear. Mahalo and aloha to you too!



Over the past few weeks, I attended the AMTA/AWWA Membrane Technology Conference and the California WaterReuse Conference. Attendance was up and the technical programs clearly indicated that membrane technology and its use continues to grow. The WaterReuse Conference contained a number of panel discussions and presentations that focused on the State’s initiative to increase research and education toward the development of direct potable reuse. Has membrane technology advanced to the point where this water supply could actually be utilized in this capacity? The fact that this is being considered is a testament to our members – the individuals who operate the membrane systems and prove the technology that inevitably drives these initiatives. As a regional member of AMTA, SWMOA has been instrumental in advancing the development and use of membrane technology.

So to the fellow SWMOA member who sent that image, I extend a sincere mahalo to you for making me see the bigger picture. SWMOA is expanding and continues to be an invaluable resource. The future of our association and the membrane industry is strong. Like all of our members, I’m excited to be a part of it and look forward to the upcoming Annual Symposium in San Diego.

## BOARD OF DIRECTORS

### EXECUTIVE OFFICERS

<u>Member</u>	<u>Term</u>	<u>Company</u>	<u>Phone</u>	<u>Email</u>
Eric Owens - President	2012-2014	Separation Processes, Inc.	760-400-3660	<a href="mailto:eowens@spi-engineering.com">eowens@spi-engineering.com</a>
Seth Ginter - Vice President	2011-2013	GE Water and Process Technologies	760-685-8561	<a href="mailto:seth.ginter@ge.com">seth.ginter@ge.com</a>
Miller Truby - Treasurer	2012-2014	Professional Water Technologies	760-639-4400	<a href="mailto:miller.truby@pwtchemicals.com">miller.truby@pwtchemicals.com</a>
Tom Knoell - Secretary	2012-2014	Orange County Water District	714-378-3357	<a href="mailto:tknoell@ocwd.com">tknoell@ocwd.com</a>
Scott McClelland-Past President	2011-2013	Sweetwater Authority	619-409-6825	<a href="mailto:smcclelland@sweetwater.org">smcclelland@sweetwater.org</a>

### BOARD OF DIRECTORS

<u>Member</u>	<u>Term</u>	<u>Company</u>	<u>Phone</u>	<u>Email</u>
Christiana Daisy	2011-2013	West Basin Municipal Water District	310-660-6233	<a href="mailto:christianad@westbasin.org">christianad@westbasin.org</a>
Dave Smith	2012-2014	Olivenhain Municipal Water District	760-753-6466	<a href="mailto:dsmith@olivenhain.com">dsmith@olivenhain.com</a>
Jerry Vilander	2011-2013	Mesa Consolidated Water District	949-574-1000	<a href="mailto:jerry@mesawater.org">jerry@mesawater.org</a>
Gary Witcher Jr.	2010-2012	California Water Services Company	661-872-6400	<a href="mailto:gwitcher@calwater.com">gwitcher@calwater.com</a>

## COMMITTEE CHAIR

	<u>Member</u>	<u>Company</u>	<u>Phone</u>	<u>Email</u>
<u>AMTA Liaison:</u>	Eric Owens	Separation Processes, Inc.	760-400-3660	<a href="mailto:eowens@spi-engineering.com">eowens@spi-engineering.com</a>
<u>Awards:</u>	Seth Ginter	GE Water and Process Technologies	760-685-8561	<a href="mailto:seth.ginter@ge.com">seth.ginter@ge.com</a>
	Christiana Daisy	West Basin Municipal Water District	310-660-6233	<a href="mailto:christianad@westbasin.org">christianad@westbasin.org</a>
<u>Bylaws &amp; Policies:</u>	Eric Owens	Separation Processes, Inc.	760-400-3660	<a href="mailto:eowens@spi-engineering.com">eowens@spi-engineering.com</a>
<u>Nomination/Election:</u>	Jerry Vilander	Mesa Consolidated Water District	949-574-1000	<a href="mailto:jerryv@mesawater.org">jerryv@mesawater.org</a>
<u>Executive (officers):</u>	Eric Owens	Separation Processes, Inc.	760-400-3660	<a href="mailto:eowens@spi-engineering.com">eowens@spi-engineering.com</a>
<u>Finance:</u>	Miller Truby	Professional Water Technologies	760-639-4400	<a href="mailto:miller.truby@pwtchemicals.com">miller.truby@pwtchemicals.com</a>
<u>Legislative:</u>	David Smith	Olivenhain Municipal Water District	760-753-6466	<a href="mailto:dsmith@olivenhain.com">dsmith@olivenhain.com</a>
<u>Membership:</u>	Gary Witcher Jr.	California Water Services Company	661-872-6400	<a href="mailto:gwitcher@calwater.com">gwitcher@calwater.com</a>
	Christiana Daisy	West Basin Municipal Water District	310-660-6233	<a href="mailto:christianad@westbasin.org">christianad@westbasin.org</a>
<u>Operator Certification:</u>	Scott McClelland	Sweetwater Authority	619-409-6825	<a href="mailto:smcclelland@sweetwater.org">smcclelland@sweetwater.org</a>
<u>Publications/Newsletter:</u>	Tom Knoell	Orange County Water District	714-378-3357	<a href="mailto:tknoell@ocwd.com">tknoell@ocwd.com</a>
<u>Program:</u>	Christiana Daisy	West Basin Municipal Water District	310-660-6233	<a href="mailto:christianad@westbasin.org">christianad@westbasin.org</a>
	Lynne Gulizia	Toray Membrane USA, Inc.	858-218-1518	<a href="mailto:gulizia.lynne@toraymem.com">gulizia.lynne@toraymem.com</a>
	David Smith	Olivenhain Municipal Water District	760-753-6466	<a href="mailto:dsmith@olivenhain.com">dsmith@olivenhain.com</a>
	Jerry Vilander	Mesa Consolidated Water District	949-574-1000	<a href="mailto:jerryv@mesawater.org">jerryv@mesawater.org</a>
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	Miller Truby	Professional Water Technologies	760-639-4400	<a href="mailto:miller.truby@pwtchemicals.com">miller.truby@pwtchemicals.com</a>
	Eric Owens	Separation Processes, Inc.	760-400-3660	<a href="mailto:eowens@spi-engineering.com">eowens@spi-engineering.com</a>

## UPCOMING BOARD MEETINGS

April 24, 2013

SWMOA Board Meeting  
Sheraton San Diego Hotel and Marina  
San Diego, CA

May 7, 2013

SWMOA Board Meeting  
Hyatt Vineyard Creek Hotel & Spa  
Santa Rosa, CA

# WELCOME NEW MEMBERS!

THE SWMOA ORGANIZATION IS NOW 300 MEMBERS STRONG!

PLEASE WELCOME THE FOLLOWING NEW MEMBERS:

**Chris Ackerman**  
City of Kingman Wastewater

**George Agnew**  
City of Lodi

**Lee Anthony Aponte**  
Inland Empire Utilities Agency

**Raul Arevalo**  
City of Corona

**Abel Arroyo**  
City of Santa Monica

**Michael Baffi**  
Life Technologies

**Gregg Bingham**  
Inland Empire Utilities Agency

**Justin Birney**  
Cuyamaca Community College/Arrieta Construction

**Sam Bogale**  
Santa Clara Valley Water District

**Jason Burkland**  
City of Lodi

**Mike Chandler**  
Irvine Ranch Water District

**Kenny Chau**  
Hazen and Sawyer, P.C.

**Nicholas Chekouras**  
Nalco Energy Services

**William Corwin**  
City of Kingman Wastewater

**Rick Cunningham**  
Inland Empire Utilities Agency

**Josette Descalzo**  
City of Santa Monica

**Ed Dillhoefer**  
Irvine Ranch Water District

**Gilberto Garcia**  
Cuyamaca Community College

**Glenn Garrett**  
City of San Juan Capistrano

**Michael Graves**  
Garver

**Lynn Grijalva**  
Hazen and Sawyer, P.C.

**Eric Hall**  
City of Santa Fe/BDD

**Chris Hanigan**  
Cuyamaca Community College

**Derrick Hardy**  
3M Purification, Inc.

**Kevin Hongthong**  
Inland Empire Utilities Agency

**Steve Houck**  
SMM-Pogo

**Kerry Huss**  
Inland Empire Utilities Agency

**Steve Jaynes**  
Jurupa Community Services District

**Travis Kahrs**  
City of Lodi

**Casey King**  
Irvine Ranch Water District

**Jason Lewis**  
Long Beach Water Department

**Kirk Lewis**  
Cuyamaca Community College

**Robert Lindsay**  
Cuyamaca Community College

**Ralph Meier**  
Cuyamaca Community College

**John Mellin**  
Inland Empire Utilities Agency

**Walt Mooshoolzadeh**  
City of Santa Monica

**Jeff Moss**  
City of Santa Monica

**Dina Muralt**  
Cuyamaca Community College

**Mark Nelson**  
Irvine Ranch Water District

**Brian Noh**  
Inland Empire Utilities Agency

**Brian Ortiz**  
Inland Empire Utilities Agency

**Larry Parlin**  
City of Lodi

**David Paulson**  
Irvine Ranch Water District

**Jack Pilkington**  
3M Purification, Inc.

**Jason Rice**  
Cuyamaca Community College

**Andrew Richle**  
City of Lodi

**Steven Rock**  
Nalco Energy Services

**Heinz Roehler**  
Orange County Water District

**Alex Sahagun**  
Inland Empire Utilities Agency

**Michael Salvati**  
Cuyamaca Community College

**Randy Sugrue**  
City of Santa Fe/BDD

**Robert Tock**  
Jurupa Community Services District

**Andres Villarreal**  
American Water - EMC

**Troy Walker**  
Hazen and Sawyer, P.C.

**Harold Wetjen**  
Sonoma County Water Agency

**Keelan Yarbrough**  
City of Kingman Wastewater

**Clyde Young**  
County of Hawaii,  
Department of Water Supply

**Luis Saul Zavala**  
Cuyamaca Community College

Visit Us Online!

Go to the [Members Only](#) page, sign in and find all the great benefits you receive with being a member of the Southeast Membrane Operator Association (SWMOA) at [www.swmoa.org](http://www.swmoa.org)



Let your friends at other water districts know about  
SWMOA

We are dedicated to providing a forum for membrane system operators to exchange information, experience and knowledge. As important, we provide educational credits through our workshops and hands-on training necessary for Operator Certification. Our goal is to make our vital industry stronger and the technology more reliable. Prospective members can find application information online on our website at [www.swmoa.org](http://www.swmoa.org).

## SWMOA's Upcoming Workshop

SWMOA would like to announce the upcoming "Hands-On Ultrafiltration Membrane Plant Operator Training" in Encinitas, CA on July 11, 2013.

The SWMOA Workshop will be held at the Olivenhain Municipal Water District (OMWD).



Workshop is approved 5 Contact Hours for CA Water.



Hours for

Thank you Major Sponsor:

Southwest Membrane  
Operator Association  
1035 E. Vista Way, #103

Ph: 888-463-0830  
Fax: 772-463-0860  
Email: [publications@swmoa.org](mailto:publications@swmoa.org)

Check Us Out Online  
[www.swmoa.org](http://www.swmoa.org)

SWMOA was formed in 2006 as an affiliate of the American Membrane Technology Association (AMTA). It is dedicated to the improvement of the quality of water supplies through desalting, reuse and other water sciences. The Corporation's members are concerned with design, research and development, equipment manufacture, operation and maintenance, environmental regulations and legislation.

The Corporation's objectives include promotion, both to the public and to elected officials, of available technologies that improve water quality; education, training and certification of plant operation personnel; communication within the membership; development of meaningful interface with regulatory agencies; technology transfer; and protection of the environment.

The Corporation is committed to the advancement of its objectives throughout the Southwest United States region including but not limited to Arizona, California, Hawaii, Nevada, Utah, Colorado, and New Mexico within the limits of its resources.