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**Mark your calendar for these upcoming events, and also the one on Page 3!**



**TRI-STATE SEMINAR  
ON-THE-RIVER At Primm, NV  
September 22~24, 2009**

Registration Packets for Pre-Registered Attendees will be mailed. The packet will include name badge, receipt and drink tickets. **THERE WILL BE A \$25 REPRINTING CHARGE IF YOU FORGET TO BRING YOUR PACKET.**

**PROGRAM INFORMATION:**

- \*SECURITY
- \*MAINTENANCE
- \*WATER DISTRIBUTION
- \*INSTRUMENTATION & ELECTRICAL
- \*WASTEWATER COLLECTIONS
- \*WASTEWATER TREATMENT
- \*BACKFLOW
- \*GROUNDWATER
- \*SAFETY
- \*MATH
- \*SURFACE WATER TREATMENT

**PDH'S / CONTACT HOURS**

**UP TO 20 HOURS AVAILABLE!!!!**

Attend the Sessions, Scan in and out, and complete the application for hours.

**EXHIBIT HALL HOURS**

**DESERT STAR ARENA @ BUFFALO BILL'S**  
Over 200 Exhibitors. For information, please go to [tristateseminar.com/exhibitors](http://tristateseminar.com/exhibitors).

Tuesday, September 23—3:30-7:00 PM

Wednesday, September 24—3:30-6:30 PM

For more information, visit [www.tristateseminar.com](http://www.tristateseminar.com)

**CWEA TRI-COUNTIES SECTION  
SEPTEMBER WORKSHOP At  
City of San Luis Obispo Corporation  
Yard  
25 Prado Road, San Luis Obispo, CA,  
93013**

**September 10th, 2009  
8AM ~ 3PM**

**PROGRAM INFORMATION:**

- \*P3S
- \*LABORATORY
- \*MAINTENANCE / SAFETY
- \*COLLECTION SYSTEM
- \*OPERATOR MATH
- \*SUPER GROUP / OPERATIONS

**4 CONTACT HOURS**

To receive your certificate, you must register, have this workshop schedule stamped by the moderator in the appropriate class and Plant Tour then return the completed form before leaving the training workshop.

**Pre-Registration Cost:** \$20.00 (Member), \$40.00 (Non-Member), \$5.00 (Full Time Student)

**At-The-Door Cost:** \$25.00 (Member), \$50.00 (Non-Member), \$5.00 (Full Time Student)

To receive CWEA Membership or Student Discount, please provide your membership number

**RSVP By September 4<sup>th</sup>, 2009!!**

For more information, visit CWEA website at [www.cwea.org/calendar](http://www.cwea.org/calendar)

**July LABS Dinner and Training Meeting – Advanced Water Recycling & Wastewater to Energy Technology Research At NASA** By Malika Jones

On July 23, 2009, the Los Angeles Basin Section (LABS) of the California Water Environment Association (CWEA) hosted a dinner and training meeting at the Proud Bird Restaurant in Los Angeles. At the event, Dr Sherwin Gormly, Water Process and Research & Development Engineer with NASA’s Ames Research Center, gave a presentation titled “Sustainable Water Recycle and Energy from Wastewater”. During the presentation Dr. Gormly discussed various research projects pertaining to two basic areas of sustainable water science including advanced water recycle technology development for human presence in space and wastewater to energy research.



Dr. Gormly discussed the historical (space station) approach to water recovery management using vapor compression distillation to recover water from urine and multifiltration beds to treat humidity condensate (Figure 1). In the future, the process will be modified to include thermal catalysis, thus yielding a more efficient (higher water recovery) treatment process.

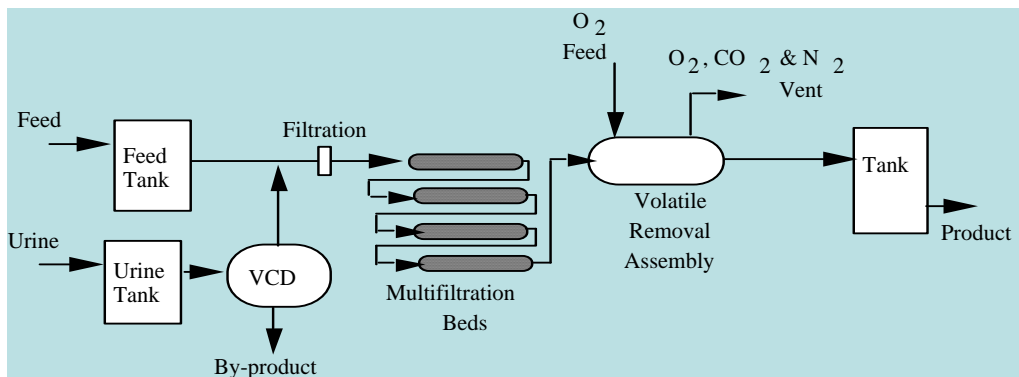


Figure 1: Water Recovery Process – Space Station Strategy

An alternative water recovery process under development is a distillation based/catalytic oxidation process called vapor phase catalytic ammonia removal (VPCAR). VPCAR is a one step process that accepts a combined waste stream (condensate, urine, and hygiene) and treats it to meet spaceship potable water standards. Although VPCAR provides more efficient water recovery than the space station water recovery system, it requires more power consumption.

Another process being researched for water recycle is the direct osmotic concentration system (DOC). The DOC system is an advanced membrane process for the treatment of urine, humidity condensate, and hygiene wastewater. The system consumes less power than other competing systems and is uniquely designed to address membrane fouling issues. The system consists of three major subsystems including combined reverse osmosis (RO) and pretreatment forward osmosis (FO) membrane processes for treatment of hygiene wastewater, a membrane distillation (MD) process for

treatment of humidity condensate and urine, and an aqueous phase catalytic oxidation (APCO) process for post treatment of the product water from both the RO permeate and MD distillate.

Two smaller scale water recovery systems that Dr. Gormly discussed were the lightweight contingency water recovery systems or LWC-WRS (for the new Orion spacecraft), and the osmotic distillation (OD) system (for the next generation lunar lander). The Orion system treats urine in two steps by removing the majority of the total organic carbon with a disposable activated carbon treatment bed in the first step. The second step involves removing solids, inorganics, and residual organics using a forward osmosis membrane bag that also provides disinfection. The end product from the system is a potable liquid similar in composition to a sports drink.

Dr. Gormly concluded his presentation by discussing wastewater to energy research projects including a forward osmosis power process, which combines membrane wastewater treatment and power generation. Another research project in the works is the OMEGA Algae Biofuels Program, a project that entails cultivating algae in the ocean to generate a sustainable biofuel.



### **Sustainable Wastewater Operations**

The American Academy of Environmental Engineers (AAEE) is presenting a dinner and networking seminar on September 24, 2009 at Loyola Marymount University in the Ahmanson Auditorium.



**Rich Atwater** is the General Manager and CEO of the Inland Empire Utility Agency (IEUA). Mr. Atwater manages renewable energy, water recycling, and water resource programs that serve 800,000 people.



**Tim Haug** is the Deputy City Engineer and Wastewater Program Manager for the City of Los Angeles. Dr. Haug manages state-of-the-industry wastewater programs that serve 4.5 million people.

**Program:** 6 PM Networking  
6:30 Dinner  
7:30 Presentations  
8:30 Adjourn

**Cost:** \$40

Roma Italian Buffet Dinner includes Caesar Salad, Grilled Italian Vegetables, Chicken Italiano, Rotelli Marinara, Pesto Linguini, Garlic Bread and Tiramisu

**RSVP by:** September 17, 2009

preferred method send check payable to: "LACSD-AAEE event" attn: Sylvia Williams 1955 Workman Mill Road, Whittier, CA 90601 Or via email [swilliams@lacs.org](mailto:swilliams@lacs.org)

**Location:**  
1 LMU Dr #1000  
Los Angeles, CA  
90045-2677

Directions are available at [www.lmu.edu/resources/Campus\\_Maps.htm](http://www.lmu.edu/resources/Campus_Maps.htm)

The Ahmanson Auditorium is located in LMU's University Hall approximately 4 miles north of LAX off Lincoln Blvd. University Hall is marked, it's the very large building immediately adjacent to the Lincoln Blvd. entrance. Please park for the event on levels L2 or L3. Meet in the Macintosh Center on the 3<sup>rd</sup> Floor for dinner and then proceed downstairs.



**Run for Water Team at San Francisco Marathon**

By Wendy Wert

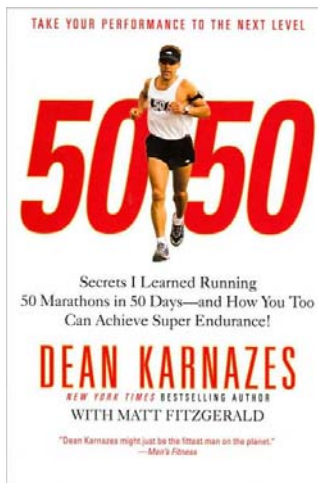


**Left:** Run for Water Team at the SF Expo Program Director Sabrina Walasek holds the sign.

**Center:** LACSD employee Wendy Wert with Dean Karnazes.

**Right:** 2007 Global Relay Ambassadors Rudy van Prooyen, Laurel Dudley, Mary Chervenak, David Christof, Paul Rogan, Heiko Weiner with Program Director Sabrina Walasek and LACSD employees Kevin Monroe and Wendy Wert.

On July 26, 2009, Run for Water Team traveled 26.2 miles through the San Francisco marathon to lend support to the Blue Planet Run Foundation. The City of San Francisco (SF) held a historic marathon this year that recognized the Blue Planet Run Foundation as one of the designated charities through the Run for Water Team. The Run for Water Team enlisted the support of many celebrities including Dean Karnazes-Ultramarathon Man. TIME magazine named Dean Karnazes as one of the "Top 100 Most Influential People in the World." Men's Fitness hailed him as the fittest man on the planet. An internationally recognized endurance athlete and best-selling author, Dean has pushed his body and mind to inconceivable limits. On ten different occasions, he's run a 200-mile relay race solo, racing alongside teams of twelve. Dean has swum the San Francisco Bay, scaled mountains, bike raced for 24-hours straight, and surfed the gigantic waves off the coast of Hawaii and California. His long list of competitive achievements include winning the world's toughest footrace, the Badwater Ultramarathon, running 135 miles nonstop across Death Valley during the middle of summer. His most recent endeavor was running 50 marathons, in all 50 US states, in 50 consecutive days, finishing with the NYC Marathon, which he ran in three hours flat. Nobody thought this would be humanly possible prior to Karnazes historic undertaking. Dean promoted the Run for Water by meeting with team members in advance to encourage participants. For more on Dean Karnazes go to [www.ultramarathonman.com](http://www.ultramarathonman.com).



The Run for Water SF Marathon proved to be a huge success! Over 70 runners participated as Run for Water lead athletes. Approximately \$15,500 in online donations has been raised and more in offline checks are still coming in. The money raised will help provide safe water in India and Vietnam. Another objective of the program is to develop a strong educational program to build awareness and encourage sustainable actions that help solve our global water situation.

Water is life. Pass it on.



It's Time for the Annual  
**SARBS/LABS**  
Combined Event  
Wed., Sept 9, 2009 @ 5PM



*Join us as we tour West Basin MWD's  
Edward C. Little Water Recycling Facility*

Ron Wildermuth, the Public & Governmental Affairs Manager for West Basin MWD, is one of the principal architects of West Basin's Water Reliability 2020 Plan. Ron will talk about West Basin's water recycling program and their 2020 Plan, which is a road map to increase dependable local supplies in the West Basin Service area.

The Edward C. Little Water Recycling Facility (ELWRF) is the largest water recycling facility of its kind in the United States. The ELWRF is the only treatment facility in the country that produces five different qualities of "designer" or custom-made recycled water that meet the unique needs of West Basin's municipal, commercial and industrial customers.

**~Select a Sandwich and a Salad~**

**Sandwich Choice:**

**Cobb:** Carved turkey breast, bacon, avocado, lettuce, hard-cooked egg, tomato & bleu cheese on a rosemary olive roll.

**Cowboy Steak:** Marinated skirt steak, grilled onion, pepperjack cheese, tomato & shaved cabbage w/ cilantro aioli on a panini roll.

**Grilled Portobello:** Portobello mushroom, mesclun greens, Swiss cheese w/ sweet pepper vinaigrette on a sesame Kaiser roll.

**Salad Choice:**

**Fresh Fruit Salad or Pasta Primavera Salad.**  
Meals also include chips, cookies and beverage.

**\*\*Special Event Pricing\*\***

Members & Non-members: **\$20**

Students & Retirees: **\$10**

(Pay at Door)

**Facility Tour:**

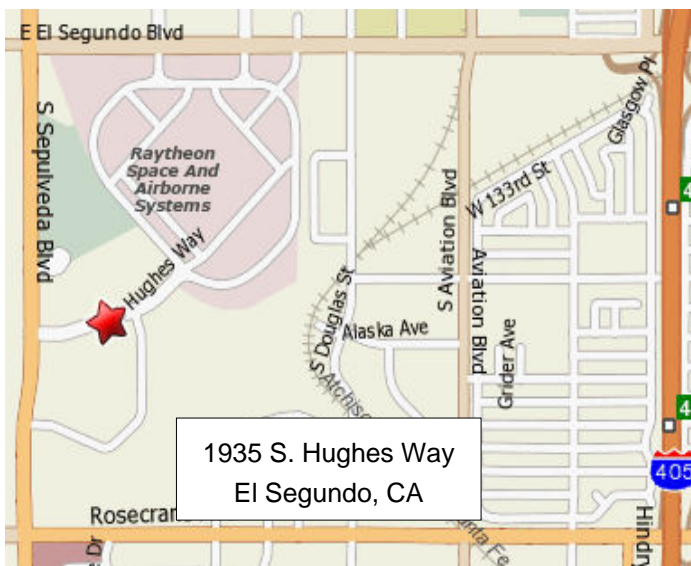
5:00 P.M. – 6:00 P.M.

**Dinner & Discussion:**

6:30 P.M. – 7:30 P.M.

**Reservations:**

RSVP with **Sandwich & Salad** choice by  
Mon., Sept. 7 to Pat McDaniel via  
Email (preferred) [pmcdaniel@biocope.com](mailto:pmcdaniel@biocope.com)  
or  
Phone (214) 244-8692





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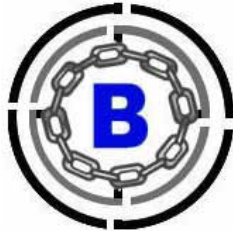
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Southern CA Rep:	Debra Bogdanoff	(562) 908-4288 x-2734

### SPECIAL EVENTS CALENDAR

Sept 9 <sup>th</sup>	Annual LABS/SARBS Combined Event; West Basin MWD's Edward C. Little Water Recycling Facility; <a href="http://labsforcwea.com/wp-content/uploads/2009/08/labs_sarbs-combined-event-09-09-09.pdf">http://labsforcwea.com/wp-content/uploads/2009/08/labs_sarbs-combined-event-09-09-09.pdf</a>
Sept 10 <sup>th</sup>	CWEA Tri-Counties Section September Workshop; San Luis Obispo, CA; <a href="http://www.cwea.org/">www.cwea.org/</a>
Sept 16 <sup>th</sup> ~ 18 <sup>th</sup>	Northern Regional Training Conference; Redding, CA; <a href="http://www.cwea.org/conferences">www.cwea.org/conferences</a>
Sept 22 <sup>nd</sup> ~ 24 <sup>th</sup>	Tri-State Seminar On-The-River; Primm, Nevada; <a href="http://www.tristateseminar.com">www.tristateseminar.com</a>
Oct 10 <sup>th</sup> ~ 14 <sup>th</sup>	WEFTEC 2009; Orlando, Florida; <a href="http://www.weftec.org/home.htm">http://www.weftec.org/home.htm</a>
Oct 28 <sup>th</sup>	CWEA Northern Safety Conference; Woodland, CA; <a href="http://www.cwea.org/conferences">www.cwea.org/conferences</a>

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