

American
Chemical Society
Orange County
Local Section

OCACS Elements

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APRIL 15, 2011

Upcoming Dates...

**April 20: Executive
Committee Meeting,
Irvine 6:30PM**

**April 28: Environ-
mental Committee
Presentation**

**April 28: College
Awards Dinner**

**May 10: Executive
Committee Meeting,
Teleconference, 6PM**

**May 26: High School
Awards Dinner**

**May 26: Environ-
mental Committee
Presentation**

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Environmental Solutions

The April Environmental Program Presentation is on April 28 at 7:30PM. It is entitled "Renewable Energy Production and Energy Efficiency Improvements in Wastewater Treatment Facilities" by Mark McDannel, P.E., BCEE, the Supervising Engineer at the Los Angeles County Sanitation Districts.

Specifically, treatment of municipal wastewater requires large sums of energy for pumping, aeration, and water removal from residual solids. They also provide the opportunity to make renewable power from digester gas generated during solids treatment. This presentation will provide an overview of energy usage, efficiency, and generation at wastewater treatment plants operated by the Los Angeles County Sanitation Districts. Key topics to be covered are:

How and where is energy is used in wastewater treatment, how much is used, and how much it costs.

An overview of the Districts Energy Efficiency Management Program, which since its start in 2006 has resulted in savings of over \$7.5 million through reduced energy usage, utility rebates, and finding mistakes in utility bills.

The Districts digester gas-to-energy program, which has been in place

since 1938. A review of available power generation technologies will include technical issues, air emissions, and costs.

Biography

Mark McDannel is a Supervising Engineer in the Energy Recovery Engineering Section at the Los Angeles County Sanitation Districts. The Districts operate nine renewable power plants, six landfills, and 12 wastewater treatment plants. The Energy Recovery Engineering Section is responsible for a variety of activities at the Districts including development of renewable energy projects, purchase and sale of electricity, energy efficiency, and regulatory affairs. Mr. McDannel has over 30 years experience in air quality, combustion, and energy. He holds an M.S. from the University of California Irvine Combustion Laboratory.

Location: Kennedy/Jenks Consultants, 2355 Main St, Suite 140, Irvine, CA - 92614

Reservations: Limited to first 25 with reservations. E-mail reservations to Ganesh Rajagopalan [RGanesh@KennedyJenks.com] by 4-26-11.



Join OCACS Online

The Orange County Local Section is online and there are several ways to connect, get information and join the conversation.

Our website is always the first and best place to start for all of the information about our Section. You can connect there at www.ocacs.org. We have information about our Section, along with links to the other Southern California Local Sections.

To get weekly bits and bites about the Section's activities, awards and upcoming events - become a Fan on Facebook. Our Section can be found at www.facebook.com, then search for American Chemical Society (Orange County Local Section).

If you are looking for updates, but only have room in your day for 140 characters or less - then look for us on Twitter. You can find us by

searching @OCACSCHEM at www.twitter.com.

If you want to speak at one of our Dinner Meetings, invite us to videotape one of your lectures or presentations for our website or get involved in the Local Section, E-mail us at:

OCACSCHEM@gmail.com

OCACS@sbcglobal.net or

sthompson@buchalter.com.

***"Advertise with
OCACS and
reach 1200
Chemical
Professionals in
the Orange
County area."***

OCACS WCC Happenings

Our first Happy Hour and Joint Networking Event between the Women's Chemist Committee and the Orange County Chapter of the Society of Women Engineers was a hit! Both groups had members who attended and business connections were made that may well extend into other opportunities.

Our next event will be Tuesday, May 31 at Haven Gastropub in Orange from 5:30-7:30PM. This restaurant and pub is a gem off the circle in Orange. They have local microbrews and cater to all types of foodies—including vegetarians. Their signature dishes include baked "spaghetti" (spaghetti squash), Brussels sprouts, flatbreads, truffle fries and chips, seafood and pork.

Please drop me an E-mail, if you can attend, so that I can ensure we have space to chat and have appetizers or dinner. I would also love to hear from you, if you would like to host and/or plan a future event.

Our June/July event will also be a casual networking event at the Bruery in Placentia. This unique brewery and tap room is casual, out of the way, and something you don't want to miss! Bring some jeans to work and enjoy a taste of Orange County that you probably didn't know existed! Don't tell anyone—but I'm trying to arrange a tour of the brewery part of the Bruery before this event. More details to follow!

We will be rotating networking events between Irvine, middle OC and northern OC, so that everyone has an opportunity to attend and meet others.

Upcoming events will include networking lunches, trips to local sporting events, happy hours and activities with local women's professional groups. Find details about upcoming events and activities at www.ocacs.org or follow us on Facebook and Twitter!

Advertise and Post Job Openings With the OCACS

Our Electronic Newsletter will be sent out to over 1200 Orange County chemistry professionals, teachers and students once a month on or around the 15th.

Your company can be front and center to members of our Local Section on a monthly or quarterly schedule.

If you would like to put your ad or job posting in our electronic newsletter, please send your ad and/or job posting, in PDF form (color or black and white) to:

OCACSCChair@gmail.com

Our rates are as follows:

Monthly:

1/4 page: \$25

1/2 page: \$50

Full page: \$100

Quarterly (3 issues):

1/4 page: \$60

1/2 page: \$125

Full page: \$250

Job Postings

We are also starting a Job Postings section in our newsletter and online for those companies who want to post a job opportunity. Our rates are \$10/month for a combined online and newsletter job posting. In order to post your job posting, we need the Company Information, Job Title, Job Location, Job Description, Requirements for Application and Deadline for Applications (if available). Send that information to OCACSCChair@gmail.com.

Don't miss this opportunity to reach out to the Orange County chemistry community!

OCACS Education Matters

Our Orange County Section April Dinner Meeting is combined with the College Awards Dinner Meeting on Thursday, April 28 at Concordia University. This year, the speaker is Bruce Houlihan from the Orange County Crime Lab and his presentation is entitled "The Influence and Impact of Forensic Science as a Career". The event starts at 6PM with dinner, the Presentation and the Awards Program to follow.

As to the presentation, the Orange County Crime Lab (OCCL) is responsible for handling over 50,000 items of evidence a year related to the crimes and investigations in Orange County. Established in 1948, the OCCL is a nationally recognized leader in crime lab services, including: DNA, fingerprinting, toxicology, driving under the influence of alcohol and drugs, explosives, firearms, controlled substances, crime scene investigation (CSI), and other vital services. Mr. Houlihan will be discussing a history of OCCL in the forensic field; specific cases involving homi-

cide, armed robbery, and serial killers that used DNA and forensic techniques; what it is like to testify in court as an expert witness on life and death cases; and how to prepare and apply for a career in forensic sciences.

Biography: Mr. Bruce Houlihan is Director of the Orange County Crime Lab in Santa Ana, California, and has been with the County of Orange for 24 years. He spent much of his childhood living in Tokyo, Japan, and also Southern California where he was born. After completing an undergraduate degree in chemistry and physics, he spent a year doing graduate study in chemistry at the University of California, Irvine, and another two years of graduate leadership study at Vanguard University in Costa Mesa. He continued teaching science at Vanguard University for many years as a part-time adjunct while working for the Sheriff-Coroner as a criminalist. After being hired in the mid 1980's, he began work in the forensic chemistry areas, specifically analyzing drugs in both biological samples and solid dose forms. Mr. Houlihan serves at one of

the largest crime labs in the country, with over 130 forensic specialists, forensic scientists, and support staff. He lives with his family in Orange County, and in his spare time enjoys reading, creative thinking, and puzzles.

Reservations: Please contact Dr. Allison Gotoh no later than April 21, 2011 12 noon to make your reservation. She can be contacted by E-mail: agotoh@cypresscollege.edu.

All requests for any change in reservation must be received by 12 noon on 04/25. Guests will be billed for the full amount for all cancellations received after the 04/25 deadline. Menu: Italian Buffet **Vegetarian option available with advance request** Cost: \$20 per person. Please pay on arrival (cash or check to OCACS) Directions: From the 405 Freeway, take Jeffrey-University exit, and then drive west toward UC Irvine. Turn left from University onto Ridgeline, then immediately right onto Concordia. Gate attendant will direct you to free parking and OCACS College Awards Dinner.



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