



The San Diego Chemist

American Chemical Society
Volume 27, Number 7

San Diego Section
July 2015

FIFTY- AND SIXTY-YEAR MEMBER RECOGNITION LUNCHEON

SATURDAY, JULY 11, 2015

- TIME:** 11:00 AM Social gathering
12:00 PM Sit-down lunch
Two choices of entrée and dessert to be listed on Eventbrite. Please check the Eventbrite URL below after July 1st.
1:00 PM Introduction of 50- and 60-year members
- PLACE:** Vi at La Jolla Village, 8515 Costa Verde Blvd., San Diego, CA 92122
- DIRECTIONS:** <http://sandiego.viliving.com/contact/find-vi-at-la-jolla>
- COST:** Free! Parking by valet only, no charge, tips are not accepted.
- RSVP:** Please sign up at <http://fiftysixtyhonorsdacs15.eventbrite.com/> by Wednesday, July 8, 2015, or RSVP by phone message at 619-687-5570

FIFTY YEAR MEMBERS

Edward Cleve Alexander
George Fujimoto
Barry Vernon Gorewit
Steven James Gould
Fred Martin Hershenson
Joanne DiProssimo Katz
Robert Earl Klem
Patrick C Mowery
Vincent Happy Noto
Julius Rebek
Hobe Schroeder
Jagadish C Sircar
James Chieh Tou
Mark Philip Wentland

SIXTY YEAR MEMBERS

Ralph Alfred Reisfeld
William Harry Richardson
Gerrard Salomon
Richard Dale Wilson
Leslie K Wynston

The San Diego Section of the American Chemical Society

and

The UCSD Department of Chemistry and Biochemistry

invite you to attend the

18th ANNUAL SAN DIEGO MEDCHEM SYMPOSIUM

Friday, July 17, 2015

Price Center Theater at UCSD

For the full program and registration information please see page 3

CHAIR NOTES

Dear ACS Members:

This year's theme of "Chemistry Outside the Box" is proving to be popular amongst ACS members not typically involved in monthly meetings. In June, we had **Dr. Katerina Leftheris** from Celgene give a talk on a new approach to drug discovery. Also, the **Keeling Curve** was inducted as an ACS national historic chemical landmark. There have been numerous successful events thus far, and there are many more events coming up that you will not want to miss. Spread the word! Let's continue the trend.

Please see the rest of the current newsletter and check online at www.sandiegoacs.org for more information on the following events:

- Get the family excited for the **ACS Annual Family Picnic** on June 28th. Delicious food, drinks, desserts, bounce house and other games will be provided at San Dieguito County Park in Solana Beach. This is a very fun event for young and old, come and enjoy a beautiful day at the park with your fellow San Diego scientists. Thank you, **Jim Shih**, for planning this fun event! Please register at <http://sdacs2015picnic.eventbrite.com>
- The Annual **50- and 60-year Member Recognition Luncheon** will be held on Saturday, July 11th from 11am to 2pm. We will be returning to Vi at La Jolla Village, where we held the 2013 luncheon. Attendance is free and you will enjoy a beautifully prepared meal and some career highlights from our Honorees. Register at <http://fiftysixtyhonorsdacs15.eventbrite.com>
- The **18th Annual Medicinal Chemistry Symposium** will take place on Friday, July 17th, at the Price Center Theater at UCSD. Co-organizers of this event, **Mark Tichenor** and **David Wallace**, have put together a tremendous line-up of high profile industry and academic speakers. Please check out this newsletter for more details.

The next Executive Committee Meeting will be on Tuesday, July 7th. Every Executive Committee Meeting this year will have a theme, featuring a different tasty treat or beverage. If you would like to become more involved in the San Diego ACS or have an idea for an event, please join us.

All of these events are made possible by the generous contributions of our event and outreach sponsors. Please visit our website to view a list of our outreach sponsors and for more information about our upcoming events.

Best,

Ben Pratt

2015 Chair

American Chemical Society – San Diego Section

E-mail: bpratt@sandiegoacs.org

Web: www.sandiegoacs.org

FREE EVENT ANNOUNCEMENTS FOR NON-PROFIT ORGANIZATIONS!

Does your non-profit organization have an upcoming event that might be of interest to members of the ACS – San Diego Section? If so, please send your announcement to our 2015 Chair, Ben Pratt, at bpratt@sandiegoacs.org. Once approved, Ben will see that your announcement is published on our website (www.sandiegoacs.org) and, if received by the 23rd of the month before the event, in *The San Diego Chemist* newsletter. This is a free service of the ACS – San Diego Section. Take advantage of it!

ATTENTION ADVERTISERS

Did you know that *The San Diego Chemist* is the only monthly e-newsletter that targets chemists and chemical engineers in San Diego and Imperial Counties? As soon as our newsletter is uploaded on www.sandiegoacs.org a separate notification is sent to the **2,400 members** of the ACS-San Diego Section, each potential customers for your products and services! **Quick turnaround:** Ad copy submitted by the 23rd of each month will be published by the end of that month. For more information, please contact:

Renate Valois, renate@sandiegoacs.org.

THE SAN DIEGO CHEMIST, the official newsletter of the San Diego Section of the American Chemical Society, published on a monthly basis, can be viewed at <http://www.sandiegoacs.org/newsletter/>.

All contents are published at the discretion of the Section's Executive Committee. Events of interest to chemistry professionals in the community may be included in the events calendar as space permits and are subject to editing for brevity. Advertisements and announcements from the chemistry community are accepted at published rates. The deadline for items submitted is **the 23rd of the month** for publication by the end of that month.

Advertisers: Ad prices as of January 1, 2015:

Size (w x h)	Number of Issues & Price/Issue	1	3	6
2" x 3"		\$ 75	\$ 68	\$ 58
4.5" x 1.5"		\$ 80	\$ 74	\$ 67
4.5" x 4.75"		\$200	\$184	\$163
8.5" x 5.5"		\$400	\$360	\$310
full page		\$655	\$590	\$510

Discounts will be available for issues not shown
Please send your jpg to:

Renate Valois at renate@sandiegoacs.org.

Make checks payable to:

American Chemical Society and mail to:

Bill Szabo, Treasurer
3950 Mahaila Avenue, B-36
San Diego, CA 92122

SECTION E-MAIL LISTSERVER!

Get up-to-the-minute reminders of local events and develop dialogs with your fellow members!

To subscribe to our moderated listserver:

1. Send an e-mail with SUBSCRIBE TO LISTSERVER in the subject line, and your name and e-mail in the body of the message to Ken Poggenburg at jkp135@att.net.
2. If you receive a message from the postman, reply to confirm that you wish to be added to the list, otherwise it will not take effect.
3. You will receive reminders approx. 5-7 days prior to upcoming events and messages of general interest to members.
4. To post topics for discussion, or informational items to the listserver members, send the message to sandiego-chemist-l@ucsd.edu.
5. If the moderator approves the post, it will be sent to the members.

NOTE: That is the letter "l", not the number "one" following the word "chemist".

Executive Committee Meeting Dates 2015

6:00 – 8:00 pm

Tuesday	July	7
Thursday	August	6
Thursday	September	3
Thursday	October	1
Thursday	November	5

Meetings will be held at:
9381 Judicial Drive, Suite 160
San Diego, CA 92121



Organized by
Dr. Mark Tichenor and Dr. David Wallace, San Diego Section of the American Chemical Society
Dr. Emmanuel Theodorakis, UCSD Department of Chemistry and Biochemistry

- 8:30 AM **Registration and Continental Breakfast**
- 9:00 **Opening Remarks by Dr. Emmanuel Theodorakis**
- 9:05 **Dr. Dale Boger**, The Scripps Research Institute
 "Redesign of Vancomycin"
- 9:45 **Dr. Nick Carruthers**, Janssen Research & Development L.L.C.
 "Discovery of Selective Orexin-2 Antagonists for the Treatment of Primary Insomnia"
- 10:25 **Coffee Break**
- 11:05 **Dr. Ali Al-Mourabit**, Institute of Chemistry of Natural Products, CNRS, France
 "Marine Secondary Metabolites, Isolation, Synthesis and Bioactivity"
- 11:45 **Dr. Scott Hecker**, Rempex Pharmaceuticals/The Medicines Company
 "Discovery of RPX7009, a Cyclic Boronic Acid Beta-lactamase Inhibitor with Utility vs. Class A Serine Carbapenemases"
- 12:25 PM **Lunch Break**
- 1:30 **Opening Remarks by Dr. Mark Tichenor**
- 1:35 **Dr. Neal Devaraj**, University of California San Diego
 "Advancing Bioorthogonal Tetrazine Ligations for Applications in Cellular Imaging"
- 2:15 **Dr. Tom Wu**, Medicinal Chemistry, GNF
 "Small Molecule Immune Potentiators"
- ~3:00 **Symposium Conclusion**

Event Sponsors:



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To register please visit
<http://chemistry.ucsd.edu/go/medchem>

and follow the link to the Registration page.

Register online early and we will buy your lunch at Price Center food court on Friday, July 17.



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The San Diego Section of the American Chemical Society would like to thank our Corporate Sponsors. Here are a few examples of our annual outreach programs that are made possible by their generous donations:

Mad Science - Stage demonstrations for 4th and 5th graders which make science fun for kids! Last year the program was viewed by over 8000 students in low-income areas and from military families.

ChemExpo - A science event for middle and high school students held annually for the past 27 years, last year and this year at San Diego Miramar College. It features live stage demonstrations and interactive booths that teach kids about applied science. Last year over 1000 local students participated!

Monarch Elementary School Program - This unique school accommodates children who are impacted by homelessness, and who would otherwise have little or no exposure to hands-on science.

EarthFair - We participate in the world's largest free annual environmental fair, held in Balboa Park.

CONSIDER SPONSORSHIP OF THE ACS SAN DIEGO SECTION

The San Diego Section of the ACS is looking for organizations that are committed to advancing science and education in the greater San Diego area by providing financial support. There are several ways to get involved and each one comes with its own benefits and privileges.

For further information please contact: **Gulin Erdogan**, Chair, Fundraising Committee, gerdogan@sandiegoacs.org

IT IS NOT TOO EARLY----

---- TO THINK ABOUT THE ANNUAL SAN DIEGO ACS LOCAL SECTION ELECTIONS 2015

Nominations for Section offices are now in order. Per our Bylaws, the current Chair-Elect will assume the Chair, but other positions are open for election, including

**Chair-Elect • Secretary • Treasurer
3 Councilors • 3 Members-at-Large**

Councilors, Alternate Councilors, and Members-at-Large serve for three years, and all incumbents may succeed themselves. We encourage the active participation of our members! If you have an interest in becoming involved in the ACS-San Diego Section and want to make a self-nomination as a candidate for an elected position, please contact:

Jim Shih at jimshih@earthlink.net

Send your bios to **Jim Shih** and **Renate Valois** at renate@sandiegoacs.org

NOTE: VOTING WILL AGAIN BE DONE ELECTRONICALLY

We will use your e-mail address on record for the ACS. If you wish to receive a paper ballot instead, please call or e-mail **Jackie Trischman**, Election Coordinator, at 858-414-3323, or trischma@csusm.edu, by **Monday, November 2nd**, and leave your name and mailing address. You will be mailed a paper ballot.

If you do not request a paper ballot, you will receive instructions on how to vote via e-mail. Please be sure your e-mail address on file with the ACS is current! To update your email address with the ACS, use www.chemistry.org.

HELP ACS ENTREPRENEURS WITH YOUR EXPERT ADVICE!

Are you a chemistry professional with extensive experience in business development, product development, intellectual property, and/or developing management teams for early stage companies? If so, consider putting your experience to use by participating in one or more virtual ACS Tiger Team meetings organized by the ACS Entrepreneurial Resources Center to help chemistry entrepreneurs in need. For more information, visit the ACS Tiger Team webpage or the ACS ERC website at www.acs.org/erc

SHARE SCIENCE AS A CHEMISTRY AMBASSADOR

Become a compelling spokesperson for your profession, whether you have a lot of time, or a little. Present ACS's many and excellent resources to the audiences they are intended to serve. Connect with the people who live in your community.

By becoming a Chemistry Ambassador, you can help educate people about the importance of chemists and chemistry, while taking part in community activities that are engaging and fulfilling for you. The suggestions and tools in this program are largely designed for individuals on their own schedules, but there are resources for local section programming, as well. Who better to represent chemistry in the community than our 161,000 members?

Sign up now to receive additional information and resources.

ACS MEMBERS SAVE ON SHIPPING SERVICES

The ACS shipping program, managed by PartnerShip@, affords U.S.-based ACS members discounts of up to 26% on domestic and international envelope and small parcel shipments. Other available services include bulk and light freight transport. This free program gives ACS members [significant savings on their shipping needs](#), with no annual fees, minimum usage requirements, or additional obligations—just great savings!

THOUGHTS ON AN EVOLVING DRUG DISCOVERY STRATEGY

Katerina Leftheris, PhD

On Wednesday, June 3rd, the San Diego Section of the ACS held its monthly meeting at Celgene's premises on Campus Point Drive. Dr. Katerina Leftheris, Celgene's Senior Director of Chemistry in San Diego, gave an exciting talk on the ever changing face of medicinal chemistry.

Dr. Leftheris has overseen Celgene's San Diego chemistry team since 2013 and to date, under her guidance, her team has advanced multiple compounds into development.

The focus of her presentation was an alternative way to approach the classic design cycle in early stage drug discovery. By utilizing a Money-Ball-esque strategy to playing the numbers game, one could increase the shots on goal and so optimize the odds of success in the notoriously difficult arena of pharmaceutical research. This approach was backed up with a series of case studies of compounds which had advanced into the clinic.

This fascinating seminar had the sold-out auditorium captivated and was the launch pad for some lively discussion during the Q&A.



Graeme Freestone introducing the speaker



Katerina Leftheris



Sold-out auditorium

**THE KEELING CURVE
A NATIONAL HISTORIC CHEMICAL LANDMARK –
CHEMISTS AND CHEMISTRY THAT TRANSFORMED OUR LIVES**

The dedication of the "The Keeling Curve" as a National Historic Chemical Landmark at the National Oceanic and Atmospheric Administration's Mauna Loa Observatory took place in Hilo, Hawaii, on April 30, 2015, and at Scripps Institution of Oceanography, University of California, San Diego, in La Jolla, California, on June 12, 2015. Attending members of the ACS San Diego Local Section included Ben Pratt, Chair, Ken Poggenburg, Councilor, and Barbara Sawrey, ACS Board of Directors and Associate Vice Chancellor for Academic Affairs/Dean of Undergraduate Education, UC San Diego.



Ben Pratt, Barbara Sawrey, Ken Poggenburg

Ken Poggenburg/Renate Valois
Photo credit: Keith Lindblom/ACS

CHEMISTRY FOR YOU AND YOUR KIDS

Totally Sudsational...Dude!

An important quality of soaps and detergents how much suds they make and how long the suds last. Suds help spread out the soap and detergent molecules so more of them can work on the greasy dirt. Let's see which of your solutions is the sudsiest!

You will need

Eye protection - 5 small cups - bar soap - dish detergent - laundry detergent - shampoo - 5 straws - measuring spoon - water - metric ruler - newspapers

1. Cover your work surface with a double layer of newspaper. Use your soap and detergent mixers from the first activity or make new mixtures by following the instructions in the first activity.
2. Place 2 tablespoons of each mixture into its own labeled cup. Tilt the cup away from you and use a straw to blow gently into the liquid to produce bubbles. **Be sure to blow into the liquid - Do not suck the liquid in.** Let the bubbles pour out of the cup and pile up on the newspaper. Keep blowing until all the liquid in the cup is used up.
3. Use a ruler to measure the length of the pile. Also measure how wide and high the pile of bubbles is. Multiply the length by the width by the height to find the volume of your pile.
4. Use separate straws to blow bubbles from the rest of your cups and record your results. Which mixture makes the biggest volume of bubbles?

Mixture	Length of pile	Width of pile	Height of pile	Volume of pile (L x W x H)
Soap				
Dish detergent				
Shampoo				
Laundry detergent				

See if you can tell the difference between your cleaning solutions by blowing one bubble of each.

1. Put a teaspoon of each soap or detergent mixture into its labeled cup. Dip one end of a straw into one of your liquid. Take the straw out and gently blow into the other end to make a bubble. Look at the size of the bubble. What else do you notice about it?
2. Make a bubble from each of your liquids using a separate straw. Observe each bubble very closely. Do the bubbles from each liquid look the same? In what ways are they different? Can you tell which liquid was used to make a bubble just by looking at the bubble? Ask your adult partner to help you try it!

**SUMMARY OF SAN DIEGO SECTION
EXECUTIVE COMMITTEE MEETING MINUTES, JUNE 4, 2015**

Treasurer's Report – Since last meeting received ~\$3000; expenditures - SABPA/ACS additional \$930, State taxes and tax preparation \$335; expect to receive ~\$5500 for councilor travel; two Chememployment ads; currently \$8200 in receivables; Section has \$339K in assets, \$17K increase from last year

UCSD Career Seminar – Discussion on career choices after colleges and benefits of ACS participation; discussion format seems to work well

Patent Seminar –Justin Hasford, 5/28, topic: Non-obviousness in Patent Law (update on case laws), 14 attendees

May Monthly Seminar – Dr. Katerina Leftheris, Director of Chemistry, Celgene, Evolving Drug Discovery Strategy, engaged audience; lovely facility; high proportion of senior chemists in attendance compared to other seminars

Picnic – On schedule

Project SEED – Requests to USD and TSRI for status of students that Section helped fund

50-60 Yr Luncheon – Scheduled for Vi; invitations to honorees have been sent

MedChem Symposium – 6 confirmed speakers, great support from UCSD; commitments of \$4K from sponsors

August Monthly Seminar – Aug 12, Arnab Chatterjee –Director of Medicinal Chemistry at Calibr to be held at Calibr; how to start a company

Sept Monthly Seminar – Topic: Biosimilars, venue: Scintillon

Distinguished Scientist Award – Committee has met, but no decision on Distinguished Scientist Award

ChemExpo – Oct 24, made fliers (updated from last year); need to get insurance certificate to Miramar College, contract is in the works

ChemLuminaries Awards – 4 nominations for the Section including Best Large Section

Motion: Allot \$1K for Mark Tichenor as previous Chair to attend National Meeting for Awards Banquet, – **Approved**

AACT – National met its goal of enrolling over 2K teachers nation-wide in the first year

75th Section Anniversary – Section will plan to celebrate anniversary at SDSU and at National Meeting to be held in San Diego; will plan for a celebration near April 7 at SDSU

Mad Science – 9 sessions scheduled; May 21 event at Monarch School postponed due to State testing schedule

SABPA Annual Biopharma Conference - \$30 admission, Jun 13

Next meeting: July 7

ACS Webinars™

Featured Events

ACS Webinars® is a free, weekly online event serving to connect ACS members and scientific professionals with subject matter experts and global thought leaders in the chemical sciences. Each session is about 60 minutes, comprised of a short presentation followed by Q&A with the speaker. Live presentations are held on **Thursdays from 2-3pm ET**. Recordings of the webinars are available online to ACS members at <http://acswebinars.org/>.

7/9/2015

The Entrepreneurial Chemist: Bridging the Bench and the Boardroom

Learn how two women Ph.D. chemists transformed hair care products created on the bench into an entrepreneurial upstart with Tashni-Ann Dubroy.

7/16/2015

Catalyzing Innovation through Molecular Design

Discover how new approaches to designing and using catalysts are eliminating hazardous materials and minimizing waste.

7/23/2015

The Creator's Code: Six Skills of Extraordinary Entrepreneurs

Unlock the six essential skills that turn small notions into big breakthroughs with Amy Wilkinson.

2015 Drug Design and Delivery Symposium Symposium Schedule

Module 2: Activity/Potency Screening for Drug Lead and Candidate Optimization

7/30/2015 X-ray Crystallography in Drug Discovery

Module 3: Enabling Drug Delivery

8/27/2015 Choices and Trends in Solid Dosage Form Section (Salt, Cocrystal) Prodrug or Amorphous?)

9/24/2015 Delivery Options to Support Dose Escalation in Preclinical Toxicology and Pharmacodynamic Activity Studies

Module 4: Pharmacokinetics

10/29/2015 Pharmacokinetic Considerations in Drug Design and Development

11/19/2015 Prodrugs in Drug Discovery

Visit the site to register for the monthly series:

<http://www.acs.org/content/acs/en/events/upcoming-ac-s-webinars/drug-design-2015.html>

10/20/2015

Tales of Lab Safety: How to Avoid Rookie Mistakes

<http://www.acs.org/content/acs/en/acs-webinars/program-in-a-box.html>

2015 ACS REGIONAL MEETINGS

Midwest (MWRM)	Oct. 21-24	St. Joseph, MO
Southeast (SERMACS)	Nov. 4-7	Memphis, TN
Western (WRM)	Nov. 6-8	San Marcos, CA

2016 ACS REGIONAL MEETINGS

CERM	May 18 – 21	Cincinnati, OH
MARM	June 9 - 12	Riverdale, NY
NORM	June 26 - 29	Anchorage, AK
ICS (Specialty)	July 16 - 19	New Orleans, LA
NERM	October 5 - 8	Binghamton, NY
SERMACS	October 23 – 26	Columbia, SC
MWRM	TBD	Manhattan, KS
SWRM	October 10 - 14	Galveston, TX

Conference on Small Molecule Science

August 17-19, 2015 • Sheraton Hotel & Marina, San Diego, CA

Space is limited • Visit www.CoSMoScience.org to learn more and to register

The Integrated Analytical Methods Conference

Develop your ability to employ a variety of technologies in the face of rapidly changing demands

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The Society for Small Molecule Science

- **Expand** your analytical abilities
- **Learn** about new applications
- **Hear** experts discuss cutting edge research
- **Network** with professionals across multiple fields

Experience scientific discussions as a participant rather than a spectator!

2015 Session highlights

4th Method Development Olympics – compete against other labs to solve an analytical problem

Complex mixture sessions – multi-dimensional chromatography, extractables & leachables and modern natural product research

Analytical Quality by Design (QbD)

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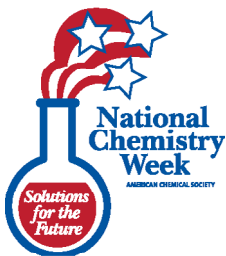
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Presented by The Society for Small Molecule Science – A volunteer 501(c)(3) nonprofit for the advancement of analytical science



ChemExpo 2015

SAN DIEGO
MIRAMAR
COLLEGE

Celebrating Our 28th Year!

Saturday, October 24, 2015

11 AM - 3 PM

Students: Come early!

**Extra credit handouts
end at 2:00 pm**

Open to anyone interested
in Chemistry.
All ages welcomed!

In collaboration with San Diego
Miramar College Chemistry Faculty,
the San Diego Section of the American
Chemical Society (ACS) will celebrate
National Chemistry Week (NCW) by
hosting the CHEM EXPO at

*San Diego Miramar College,
10440 Black Mountain Rd,
San Diego, CA, 92126*

It's Free! It's Fun! It's Educational!

**The CHEM EXPO instills greater public
awareness of the importance of chemistry
in our everyday lives and the roles
that chemists play in our community.**

WHAT TO EXPECT:

- Exhibits by Local Companies & Organizations
- Chemistry Demonstrations
- Hands-On Activities
- Free Raffles
- Middle & High School Extra Credit (at teacher discretion)
- and Much More!

Local Companies & Organizations:
Sign Up to Showcase Your Exhibits! No Charge!

To volunteer and for free space for educational exhibits contact:
Paul Bruinsma at paulb@sandiegoacs.org

Sponsored by the San Diego Section of the American Chemical Society • www.sandiegoacs.org.

Theme: "Chemistry Colors Our World!"
Exploring the chemistry of Dyes, Pigments and Light!

CHEMPLOYMENT 774**POSITION TITLE:**

Manager, Analytical Development

JOB DESCRIPTION:

Develop and execute the Company's Analytical Development efforts to support pre-formulation, formulation, process development, and clinical supply and CMC requirements. Oversee the group responsible for developing, qualifying and validating analytical methods; will complete hands-on bench work as well. Develop phase appropriate methods to support Otonomy's development programs. Transfer methods to contract labs and manage related technical activities including ongoing and new stability programs. Assist in preparing CMC input and documents for regulatory submissions. Operate as a key member of the CMC Team.

QUALIFICATIONS DESIRED:

Ph.D. degree in Analytical Chemistry or related disciplines or the equivalent education and experience. Qualified candidates will also have in-depth scientific knowledge and hands-on relevant industry experience of at least 5-7+ years in the development and validation of analytical methods. Hands-on experience in more than one of the following techniques is a must: HPLC, UPLC, GC, SEC, Particle Size, Mass Spectrometry, and Dissolution. Hands-on experience with effectively managing external contract sites is a must. Ability to exercise independent judgment in developing methods and evaluation criteria needed to obtain results is required. Must have excellent working knowledge of cGMP practices, ICH Quality Guidelines and other regulatory requirements. Good knowledge of solid state characterization (e.g. XRPD, IR, NMR, Adsorption Isotherm, DSC, TA, Surface Area Measurement, Particle Size Measurement, and Flow Properties) is a plus. Familiarity with characterization of sustained and controlled release formulation is a plus. Must have experience in completing quality sections for regulatory submissions. Must be self-motivated, detail oriented, and flexible in handling project assignments

DESCRIPTION OF COMPANY:

Otonomy is a clinical stage biopharmaceutical company with the mission to develop and commercialize novel and best-in-class therapeutics to address the significant unmet medical needs in the emerging otology market. To overcome many of the limitations of delivering drugs to the middle and inner ear, we have developed a proprietary technology that is designed to deliver drug that is retained in the ear for an extended period of time following a single local administration, which we refer to as "sustained-exposure". Utilizing this technology, we have advanced three product candidates into development including AuriPro™ which has completed Phase 3 clinical trials.

APPLICATION INSTRUCTIONS:

Please send your résumé to humanresources@otonomy.com or mail to Otonomy, Inc. at 6275 Nancy Ridge Drive, Suite 100, San Diego, CA 92121.

Otonomy is an Equal Opportunity Employer

**AMERICAN CHEMICAL SOCIETY 45TH WESTERN REGIONAL MEETING (WRM 2015)
NOVEMBER 6-8, 2015**

The Orange County Section of the American Chemical Society (OC ACS) is pleased to announce that the 45th Western Regional Meeting of the American Chemical Society will take place on the beautiful campus of California State University – San Marcos, which is located in North San Diego County, only a short drive from the City of San Diego, Riverside County, and Orange County. The meeting will feature presentations, poster sessions, an exposition, receptions and an educators' day. Please join us for the 2015 WRM to network and connect with our fellow chemists and chemical engineers in the Western Region! Please bookmark: <http://www.acswrm.org/> and check back regularly for more information.



There will be a wide variety of planned technical sessions and symposia, including:

The symposium sessions include "Analytical Chemistry," "Biochemical Technology," "Celebration of Western Regional Nobel Laureates," "Chemical Education," "Chemical Safety," "Chemistry of Beer and Wine," "Crystallography," "Colloids and Surface Chemistry," "Energy and Fuel Chemistry," "Entrepreneurship," "Environmental Chemistry," "Fire & Water," "Green Polymers," "Inorganic Chemistry," "The Many Faces of CHAL," "Medicinal Chemistry," "Nanomaterials," "Natural Products," "Organic Chemistry," "Organometallic Chemistry," "Pharmaceutical Sciences," "Physical Chemistry," "Process Organic Chemistry," "Renewables and Green Chemistry," "Women Chemists," as well as general poster sessions.

There will be many special events, such as:

- Special Symposium on Fire & Water
- Celebration of Western Region Nobel Laureates
- Women's Networking Luncheon
- Craft Beer and Networking Reception
- Poster Sessions
- Educational Workshops

We are also looking for intriguing symposium topics and symposium chairs to help us organize the symposia, sponsors and exhibitors. Please contact us if you have any exciting ideas to share!

When attendees aren't at the meeting, they can visit the wineries in Temecula, the San Diego Zoo, the Safari Park, LEGOLAND, various local renowned craft breweries, Oceanside and San Diego, along with other local attractions and parks.

Abstracts are due by 11:59 PM EDT on August 24. Meeting and hotel registration will also open very soon.

Questions?

General Chair: Dr. Sandra Thompson (WRM2015Chair@gmail.com)

Program Co-Chairs: Dr. Michael Kleinman (mtkleinm@uci.edu), Dr. Keisuke Ikehata (kikehata@pacewater.com)

The Orange County Section of the American Chemical Society, P.O. Box 211, Placentia, CA 92871

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BRIDGES ACROSS THE PACIFIC: PACIFICHEM 2015

Pacificchem 2015: "Chemical Networking: Building Bridges Across the Pacific," will take place December 15-20, 2015, in Honolulu, HI.

Housing for Pacificchem 2015 is currently open until **Friday, November 13, 2015**

Early registration for Pacificchem 2015 will close on Thursday, October 15, 2015. For other key dates, technical program updates, and all the latest meeting details, visit the Pacificchem 2015 website at www.pacificchem.org

WHEN YOU CAN'T BE THERE: ACS PRESENTATIONS ON DEMAND

ACS is always aiming to increase and enhance member access to chemistry-based scientific information, be it from *Chemical & Engineering News*, ACS Journals, or Chemical Abstracts Service. In an effort to give ACS Members exposure to the many and varied talks that are given at ACS National Meetings, [ACS Presentations on Demand](http://presentations.acs.org) was created as a medium for ACS Members who couldn't attend a national meeting, or who missed a presentation due to a scheduling conflict.

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Do you hire student workers?

If you have open positions in chemistry and biochemistry that would be of interest to college students, such as summer internship opportunities, here is a list of contacts you'll want to keep handy. The people listed below are the faculty advisors of the ACS Student Affiliate groups for all chemistry programs in San Diego County. These professors can get the word out to all chemistry and biochemistry majors at their schools about jobs, career fairs, open houses, etc.

California State University, San Marcos

Jacqueline Trischman

trischma@csusm.edu

760-750-4206

Palomar College

Greg Elliot

gelliott@palomar.edu

858-531-1149

Point Loma Nazarene University

Sara Choung

SaraChoung@PointLoma.edu 619-849-2627

San Diego Mesa College

Dwayne Gergens

dgersens@sdccd.edu

619-388-2609

San Diego Miramar College

Fred Garces

fgarces@sdccd.edu

619-388-7493

San Diego State University (SDSU)

Mikael Bergdahl

bergdahl@sciences.sdsu.edu 619-594-5865

Southwestern College, Chula Vista

David Hecht

dhecht@swccd.edu

619-421-6700x5461

University of California, San Diego

Joe Cribari

jcribari@ucsd.edu

858-822-4055

Gourisankar Ghosh

gghosh@ucsd.edu

858-822-0469

Judy Kim

judyk@ucsd.edu

858-534-8080

University of San Diego

Tammy Dwyer

tdwyer@sandiego.edu

619-260-4030



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Please contact Renate Valois at

renate@sandiegoacs.org

UPCOMING EVENTS

SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST

*Coco's Bakery Restaurant
4280 Nobel Drive, San Diego, CA 92122
Thursday, July 9, 2015 at 9:30 AM*

FIFTY-/SIXTY-YEAR MEMBER RECOGNITION LUNCHEON

*Vi at La Jolla Village
8515 Costa Verde Blvd., San Diego, CA 92122
Saturday, July 11, 2015*

18TH ANNUAL SAN DIEGO MEDCHEM SYMPOSIUM

*Price Center Theater at UCSD
Friday, July 17, 2015*

250TH ACS FALL NATIONAL MEETING & EXPOSITION

*Boston, Massachusetts
August 16-20, 2015*

DR. ARNAB K. CHATTERJEE, PH.D.

Director of Medicinal Chemistry, California Institute for Biomedical Research (Calibr)

"Calibr: A New Model For Integrated Medicinal Chemistry Approaches

In A Non-Profit Translational Research Environment"

Calibr, 11119 N Torrey Pines Rd #100 La Jolla, CA 92037

Wednesday, August 26, 2015

CHEMEXPO

*THEME: Exploring the Chemistry of Dyes, Pigments and Light
San Diego Miramar College, 10440 Black Mountain Road, San Diego
Saturday, October 24, 2015*

HOLIDAY PARTY

*The Butcher Shop
5255 Kearny Villa Road, San Diego, CA 92123
Thursday, December 3, 2015*

**THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY
WELCOMES ITS NEW MEMBERS**

Thomas Bartholow
Joshua Brooks
Colin Cartwright
Andrea Dorigo
Myles Drance
Zachary Evans
Marcus Farmer
Shelby Friends
Adam Henke
David Hughes
David Lin
Kevin Martin
Sadie Martin
Timothy Mauldin
Emmanuel Mercado

Logan Monje
Michelle Niu
Melanie Pribich
Joseph Provost
Sean Purcell
Michael Rebagliati
Stephen Rudisill
Tony Rummani
James Senyard
Stephen Thomson
Yukiko Uchida
Christopher Vickery
Meret Vollenweider
Mark Wentland
Pierre Winter

**2015 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY**

EXECUTIVE COMMITTEE

<i>Chair</i>	Ben Pratt, Akarna Therapeutics, bpratt@sandiegoacs.org	(2015)	858-945-7893
<i>Chair-Elect</i>	Graeme Freestone, Dart NeuroScience LLC, gfreestone@sandiegoacs.org	(2015)	858-246-8137
<i>Past-Chair</i>	Mark Tichenor, Janssen Pharmaceuticals, Inc., mtichenor@sandiegoacs.org	(2015)	858-334-8914
<i>Secretary</i>	William Tolley, Seacoast Science, Inc., w_tolley@juno.com	(2015)	858-780-0978
<i>Treasurer</i>	Bill Szabo, bszabo@sandiegoacs.org	(2015)	858-550-0306

Councilors

Thomas R. Beattie	(2015)	858-587-1210
Hui Cai, WuXi AppTec	(2016)	858-361-8838
Desiree Grubisha, CSUSM	(2015)	858-254-5497
John Palmer, UCSD	(2017)	858-534-5906
Ken Poggenburg	(2016)	760-635-2573
David Wallace, Wallace Scientific Consulting	(2015)	858-638-1866

Alternate Councilors

Paul Bruinsma, Hewlett-Packard Company	(2017)	858-655-8322
Surya K. De, Sanford-Burnham Medical Research Institute	(2016)	858-337-4961
Julann Miller, Waters Corporation	(2017)	800-252-4752 x6802
John Schindler	(2016)	858-353-3943
Jim Shih, Eli Lilly & Co	(2017)	626-826-3561
Ruo Steensma, Steensma Consulting, Inc.	(2016)	858-205-9371

Members-at-Large

Ryan Clark, Inception Sciences, Inc.	(2017)	858-774-2095
Gulin Erdogan, Vertex Pharmaceuticals	(2015)	619-540-8321
Mark Rosen, Aethria Therapeutics	(2017)	858-692-0639
Patrick Andrew Staley	(2015)	858-483-4297
Jean Wang, IriSys Inc.	(2015)	858-623-1520

STANDING & SPECIAL COMMITTEES

Award Nomination Committee

Thomas R. Beattie (Chair)	858-587-1210
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ChemExpo

Paul Bruinsma (Chair), Hewlett-Packard Company	858-655-8322
Julann Miller, Waters Corporation	800-252-4752 x6802

Communications Committee

Paul Bruinsma (Chair), Hewlett-Packard Company	858-655-8322
Surya K. De, Sanford-Burnham Medical Research Institute	858-337-4961
Desiree Grubisha, CSUSM	858-254-5497
Ken Poggenburg	760-635-2573
David Wallace, Wallace Scientific Consulting	858-638-1866
Renate Valois (Newsletter Editor)	619-692-0638

Education Committee

Haim Weizman (Chair), UCSD	858-534-2963
Joann Um (Co-Chair), Southwestern College	510-823-8637

EarthFair

Julann Miller, Waters Corporation	800-252-4752 x6802
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Finance Committee

Bill Szabo (Chair)	858-550-0306
Tom Beattie	858-587-1210
Graeme Freestone, Dart NeuroScience LLC	858-246-8137

Fundraising Committee

Gulin Erdogan (Chair), Vertex Pharmaceuticals	619-540-8321
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Government Affairs Committee

Hui Cai, WuXi AppTec (Chair)	858-361-8838
Ken Poggenburg	760-635-2573

Law Committee

Ryan C. Smith, Duane Morris LLP	619-744-2220
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Mad Science Program

Thomas R. Beattie	858-587-1210
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MedChem Symposium

Mark Tichenor (Co-Chair), Janssen Pharmaceuticals, Inc.	858-334-8914
David Wallace (Co-Chair), Wallace Scientific Consulting	858-638-1866

Membership Committee

Mark Rosen, Aethria Therapeutics	858-692-0639
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Nominations Committee

Jim Shih, Eli Lilly & Co.	626-826-3561
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Picnic Committee

Jim Shih, Eli Lilly & Co.	626-826-3561
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Professional Development Committee

Ruo Steensma, Steensma Consulting, Inc.	858-205-9371
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Public Relations Committee

John Schindler	858-353-3943
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Retired Chemists Committee

Ken Poggenburg (Chair)	760-635-2573
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Seniors Breakfasts

Thomas R. Beattie	858-587-1210
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Women Chemists Committee

Gulin Erdogan (Chair), Vertex Pharmaceuticals	619-540-8321
Abhi Sharma, Drug Delivery Experts	619-807-9044
Jayashree Srinivasan, Accelerate-Research	619-826-8004

Younger Chemists Committee

Jean-François Brazeau (Co-Chair), Celgene	858-882-5263
Corey Anderson, (Co-Chair), Vertex Pharmaceuticals	858-405-4734

Voice Mail – San Diego Section

619-687-5570