



# The San Diego Chemist

American Chemical Society  
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San Diego Section  
August 2015

***Calibr: A new model for integrated medicinal chemistry approaches in a nonprofit translational research environment***

**Dr. Arnab K. Chatterjee, Ph.D.**  
Director of Medicinal Chemistry  
California Institute for Biomedical Research (Calibr)

**DATE:** Wednesday, August 26, 2015

**TIME:** 6:00 PM Social hour, light appetizers  
7:00 PM Presentation

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

**RESERVATIONS:** By Monday, August 24, 2015  
Eventbrite: [arnab-chatterjee.eventbrite.com](http://arnab-chatterjee.eventbrite.com)

**SPONSORED BY:**



## ABOUT THE SPEAKER:

**Arnab K. Chatterjee** was born in Calcutta, India, in 1975. After completing a Bachelor of Arts in Chemistry from Northwestern University in 1997, he proceeded on to Caltech in 1998 in the laboratory of Professor Robert H. Grubbs. His doctoral research focused on understanding the selectivity patterns of olefin cross-metathesis reactions using catalytic ruthenium alkylidenes. Upon completion of his doctoral research in September 2002, Arnab joined the Genomics Institute of the Novartis Research Foundation. His work over the last 10+ years has been focused on optimization in several medicinal chemistry projects ranging a variety of therapeutic areas (neuroscience, oncology, respiratory disease, and infectious diseases). He is currently at the newly formed nonprofit California Institute for Biomedical Research (Calibr) where he leads the chemistry efforts.

The California Institute for Biomedical Research (Calibr) is an independent, not for profit organization focused on translational research. Calibr's mission is to discover and develop innovative therapies that address unmet medical needs through partnerships with experts in academia and industry. Scientists at Calibr work across a wide range of disease areas to produce paradigm-changing medicines. Calibr's drug discovery efforts are fueled by world-class technologies. At this ACS-sponsored event, Arnab K. Chatterjee, Ph.D., Director of Medicinal Chemistry at Calibr, will describe how Calibr represents a new paradigm for translational research, and share examples of the innovative research that is being prosecuted at Calibr.

## CHAIR NOTES

Dear ACS Members:

You don't have to be a climate scientist to appreciate a good thunderstorm to clear the air and saturate the soil. Record-breaking rainfall for the month of July has put us one step closer to a hopeful recovery from the multi-year drought here in Southern California.

While the rain has not wiped the slate clean, we have moved past the half-way point in the year and have enjoyed two of the marquee events of the SDACS, the annual family picnic and the UCSD/SDACS MedChem Symposium. The picnic went off in prime form with a record attendance, delicious food, creative desserts and tasty beverages. A special thanks to **Jim Shih** and **Julann Miller** who spearheaded our most delectable annual event. The MedChem Symposium was co-organized this year by **Mark Tichenor** and **David Wallace** and, as has been the case for many years, furnished a crowd of 300+ attendees and talks from chemistry leaders in industry and academia. Also sporting a healthy attendance count was the ACS 50-and 60-Year Member Recognition Luncheon, organized by Retired Chemists Committee Chair **Ken Poggenburg**. Look for photos and accounts of the aforementioned events in the pages of this month's SDACS newsletter.

Upcoming events:

- Our August monthly meeting is being organized by Jonathan Lockner and will feature **Dr. Arnab Chatterjee**, Director of Medicinal Chemistry at Calibr, on August 26th. The title of his talk is "Calibr: A new model for integrated medicinal chemistry approaches in a non-profit translational research environment". Please register at <https://arnab-chatterjee.eventbrite.com>
- The SDACS Law Committee, led by **Ryan Smith**, will be organizing the September monthly meeting to be held at the Scintillon Institute. Our speaker, **Dr. Vicki Norton**, will be talking about biosimilars. More details to come as they are available.
- The SDACS will be holding elections for Executive Committee positions and councilors. A full list of available positions is in the newsletter. This is a great way to become involved in the Local Section. Look for your e-mail ballot and cast your vote!

The next Executive Committee Meeting will be held on Thursday, August 6<sup>th</sup>. Every Executive Committee Meeting this year has a theme, featuring a different tasty treat or beverage. Last month featured chocolate-filled treats and assorted red wines. If you would like to become more involved in the San Diego Section of the 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](mailto:bpratt@sandiegoacs.org)

Web: [www.sandiegoacs.org](http://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](mailto:bpratt@sandiegoacs.org). Once approved, Ben will see that your announcement is published on our website ([www.sandiegoacs.org](http://www.sandiegoacs.org)) and, if received by the 23<sup>rd</sup> 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](http://www.sandiegoacs.org) a separate notification is sent to the **2,400 members** of the ACS-San Diego Section, each potential customer for your products and services! **Quick turnaround:** Ad copy submitted by the 23<sup>rd</sup> of each month will be published by the end of that month. For more information, please contact:

Renate Valois, [renate@sandiegoacs.org](mailto: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 23<sup>rd</sup> of the month** for publication by the end of that month.

**Advertisers:** Ad prices as of January 1, 2015:

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|--------------|-------|-------|-------|
| 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](mailto: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](mailto: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](mailto: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

|          |           |   |
|----------|-----------|---|
| 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



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PROFESSIONAL CORPORATION



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 4<sup>th</sup> and 5<sup>th</sup> 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 in Balboa Park annually for the past 27 years. 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](mailto: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](mailto:jimshih@earthlink.net).

Send your bios to **Jim Shih** and **Renate Valois** at [renate@sandiegoacs.org](mailto: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](mailto:trischma@csusm.edu), by **Monday, November 2<sup>nd</sup>**, 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](http://www.chemistry.org).

#### **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.

#### **ORGANIZERS NEEDED!**

The San Diego Section of the American Chemical Society is looking for volunteers to organize an ACS Western Regional Meeting. Exact dates are flexible and yet to be determined, but it will be held between 2018 and 2020. We are currently looking to fill the positions of General Meeting Chair and Program Chair(s). If you are organized, work well with others and want to expand your professional network to a national scale, you may be a great fit for either of these positions. The General Meeting Chair will be responsible for overseeing the planning of the meeting venue and logistics while the Program Chair(s) will fill events and speaker lists. Location, duration and desired attendance are based on the vision of the organizers. If you have an idea for a large meeting held here in San Diego, this is your way to make it happen.

For more information please contact:

**Ben Pratt, Chair**  
**San Diego Section of the American Chemical Society**  
[bpratt@sandiegoacs.org](mailto:bpratt@sandiegoacs.org)



## **SUMMER PICNIC** **June 28, 2015**

The 2015 San Diego ACS picnic was once again a great success. Chef **Rodney Harris** served hamburgers, hot dogs as well as veggie burgers and vegetarian baked beans. In what has become a new tradition at the picnic, **Jim Shih** (Picnic Committee co-chair) served Korean barbecue beef and pork tacos with Asian slaw to the hungry masses. The dessert contest had many delicious entries (including edible chemical structures!), with the winners chosen by a panel of secret judges. The winners were: First prize – **Sylvia Tarin Brousseau**; Second prize – **Forozan Zandi**; Third prize – **Chingying Smith**. The most excellent sunny weather of San Diego provided a fabulous cool day for the picnic and was much appreciated by the over 120 people in attendance. Special thanks to **Julann Miller** (Picnic Committee co-chair), **Desiree Grubisha**, **Dave Wallace**, **Ken Poggenburg** and many others for volunteering to help shop, set up and perform kitchen prep, as well as the massive cleanup effort after the picnic. Section chair, **Ben Pratt**, ensured the bounce house beloved by children was inflated and bouncy, while the youngsters wasted no time in diving into the fun. The adults were entertained by great conversations lubricated by kegs of ice-cold beers (courtesy of **Holly Dembinski**). Great times were had by all!



Jim Shih preparing Korean beef



Rodney Harris, Jim Shih



Jim being smoked out!



Sylvia Brousseau, Chingying Smith, Forozan Zandi



Ashlyn Zhao enjoys some sweets



Ben Pratt, Jim Shih



Jim Shih  
Photo credits: Paul Michalkski  
Ben Pratt



## **FIFTY- AND SIXTY-YEAR MEMBER RECOGNITION LUNCHEON**

On Saturday, July 11<sup>th</sup>, the San Diego Section of the ACS honored its fifty- and sixty-year members. This year's list of honorees was quite impressive with 14 members receiving their fifty-year award and 5 members receiving their sixty-year award. The luncheon was held at Vi at La Jolla Village, the site of the 2013 luncheon. Members of the 50-year class were able to share a few words, and sometimes more, about their careers and involvement with the ACS. Unfortunately, we had so many 50-year honorees that there was no time for the 60-year members to speak. There was a record 70+ in attendance at the luncheon and many of the honorees had a great time catching up with friends and colleagues.

### **50-Year Honorees**

Dr. Edward Alexander  
Dr. George Fujimoto  
Dr. Barry Gorewit  
Dr. Steven Gould  
Mr. Fred Hershenson  
Mrs. Joanne Katz

Dr. Robert Klem  
Dr. Patrick Mowery  
Mr. Vincent Noto  
Dr. Julius Rebeck Jr.  
Dr. Hobe Schroeder  
Dr. Jagadish Sircar  
Dr. James Tou

Dr. Mark Wentland

### **60-Year Honorees**

Dr. Ralph Reisfeld  
Dr. William Richardson  
Mr. Gerrard Salomon  
Mr. Richard Wilson  
Dr. Leslie Wynston



Edward Alexander



Chair Ben Pratt, George Fujimoto



Fred Hershenson



Joanne DiProssimo Katz



Robert Earl Klem



Julius Rebeck





Gerrard Salomon



James Tou



Mark Wentland



Richard Wilson



Leslie Wynston



Welcoming the guests : Ken Poggenburg, Ben Pratt, Renate Valois



Ben Pratt  
Photo credits: Bill Szabo

## ***THE 18<sup>TH</sup> ANNUAL SAN DIEGO MEDICINAL CHEMISTRY SYMPOSIUM***

The 18<sup>th</sup> Annual San Diego Medicinal Chemistry Symposium took place on July 17<sup>th</sup> at UC San Diego. Price Center Theatre was filled with attendees that came to hear talks from an outstanding set of speakers. **Professor Dale Boger** from The Scripps Research Institute started the program discussing his groups re-engineering of Vancomycin to combat resistance based on a detailed understanding of Vancomycin's interactions with its biological target. **Dr. Nick Carruthers** from Janssen Research & Development L.L.C. shared his groups work on selective Orexin 2 antagonists, from discovery research to clinical proof of concept. **Dr. Ali Al-Mourabit** from the Institute of Chemistry of Natural Products described the discovery and synthesis of natural products having reactivity that is suggestive of a bioluminescent function. **Dr. Scott Hecker** from the Medicines Company described the discovery of cyclic boronic Beta-lactamase inhibitors including RPX7009, that are promising next generation antibiotics. **Dr. Neal Devaraj** from UC San Diego spoke about optimizing the tetrazine Diels-Alder reaction as a bioorthogonal ligation technology with utility in cellular imaging. **Dr. Tom Wu** from GNF gave the final talk on defining the optimal properties for locally delivered small-molecule immune potentiators that could have utility for protecting against the effects of unknown biological agents. The event was organized by **Professor Emmanuel Theodorakis** and **Jeff Rances** from UCSD, as well as **David Wallace** and **Mark Tichenor** from the ACS-San Diego Section. The event was free for attendees because of the generous financial support of our sponsors Arena, Celgene, Dart Neuroscience, Medicilon, Takeda, UC San Diego, and Vertex. ACS and UCSD are eager to collaborate on another symposium in July 2016.



Professor Ali Al-Mourabit



Professor Dale Boger



Dr. Nick Carruthers



Dr. Neal Devaraj



Dr. Scott Hecker



Dr. Tom Wu

Mark Tichenor





# 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](mailto:paulb@sandiegoacs.org)**

Sponsored by the San Diego Section of the American Chemical Society • [www.sandiegoacs.org](http://www.sandiegoacs.org).

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



## CHEMISTRY FOR YOU AND YOUR KIDS

### CANDY CHROMATOGRAPHY!

There are many different ways in which mixtures can be separated. In the activity below, you can separate the substances used to color candy by using *chromatography*.

#### You will need

Safety glasses - Coated chocolate candy (brown) - Coated peanut butter candy (brown) - Pencil - Cotton swabs  
Coffee filter (cone type) - Water - Paper or plastic cup (at least 7 oz) - Blunt end scissors

1. Use your scissors to cut 3 strips of coffee filter about 10 cm long and about 3 cm wide. Write the name of each candy on a separate strip. The name should be written near one end of the strip.
2. Pour about 1/4 cup of water into a cup. Dip one end of a cotton swab into the cup and gently wet one side of one of your candies. Gently rub the candy's wet side onto the filter strip about 2 cm from the end to make a dark dot on the paper. *Do not put the used end of the cotton swab back in the water.*
3. Repeat step 2 for your other two candies and paper strips. Use a clean end of a cotton swab each time. Be sure to make your dot dark, on the opposite end of the strip from the name of the candy, and about 2 cm from that end of the strip.
4. Carefully place your strips in the cup of water so that only a small portion of the bottom of each strip touches the surface of the water. Be sure your colored dot is above the surface of the water. Bend the rest of the strip over the rim of the cup to keep the strip in place.
5. Observe each strip as the water moves up through the dot. What do you notice happening? Was the brown color on the candies a mixture of other colors? What are these other colors? Compare the colors used in each candy. In what ways are they the same or different?

Check the ingredients listed on the candy wrapper to see whether the colors you see were actually used to color the candies!

Excerpt: "The Best of WonderScience," pg. 245, Delmar Publishers, 1997

### ACS-Hach Programs

#### ACS-Hach Land Grant Teacher Scholarship

Provides financial support to obtain a chemistry undergraduate degree and chemistry teaching credentials at one of our 72 partner institutions.

**Application Period:** [Contact participating universities directly for application details](#)

#### ACS-Hach Post-Baccalaureate Teacher Scholarship

Provides financial support for chemistry graduates with limited work experience to obtain a masters degree in education or teacher certification in chemistry.

**Application Period:** February 1st – April 1st

#### ACS-Hach Second Career Teacher Scholarship

Provides financial support for chemistry professionals to obtain a masters degree in education or teacher certification in chemistry.

**Application Period:** February 1st – April 1st

About ACS-Hach Programs

The ACS-Hach Programs provide financial support for future and current high school chemistry teachers. [Learn more.](#)

Contact us: Email: [hach@acs.org](mailto:hach@acs.org) -- Phone: (800) 227-5558 ext. 8178



### ACS Publications Launches Mobile-Optimized Web Platform

ACS Publications has introduced [ACS2Go](#), a new mobile-optimized website that enriches the reading and browsing experience for readers of ACS content.

Mobile pairing technology provides authorized users from subscribing institutions with on-the-go access to the entire content of the ACS Publications web platform. That includes more than 1 million scientific journal articles, the full collection of ACS eBooks, *C&EN Archives*, and the *ACS Style Guide*, all via a mobile-optimized interface. ACS members can also access their personal subscriptions on this platform.

ACS2Go can be accessed at [pubs.acs.org](http://pubs.acs.org) on a tablet or smartphone. A brief video, a highlight of features and functionality, and frequently asked questions are available at: [pubs.acs.org/acs2go](http://pubs.acs.org/acs2go).



### Printing and Office Product Discounts With OfficeMax Workplace

ACS members can save up to 88% off the manufacturers' list price on frequently purchased items, and get reduced pricing on more than 12,000 in-stock products as well as discounts on select OfficeMax Print and Document services. Whether you order online or at an OfficeMax store, your ACS member discounts apply. Call [1-800-636-2377](tel:1-800-636-2377) to receive log-in information and start saving on your purchases today!

### LINKS TO STEM

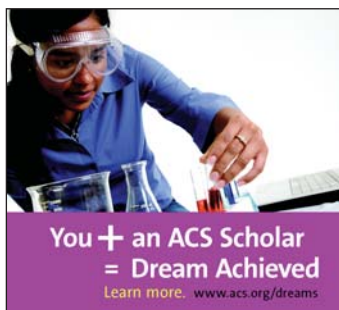
Links to STEM provides enrichment for students in grades 4-8 from schools throughout San Diego. Links to STEM introduces the students to a broad spectrum of STEM related topics and emphasizes the skills necessary to participate on a robotics team. *The time commitment is from 9:00 am - 12 noon 2 x monthly/every other Saturday at Francis Parker School in Linda Vista.*

Volunteers are needed in the following areas:

- Computer programming
- Scientific experiments, practicing
- Elementary & middle school math
- Robotics competition preparation

Volunteer today to work with students in the *Links to STEM Program August 2015 -April 2016.*

If you are interested please contact Kemi Akinlabi at [olakemi.akinlabi@hp.com](mailto:olakemi.akinlabi@hp.com)



**SUMMARY OF SAN DIEGO SECTION  
EXECUTIVE COMMITTEE MEETING MINUTES, JULY 7, 2015**

**Treasurer's Report** – Since last meeting: received \$6,840 from National, covering 75% of Councilor travel expenses; received \$1K MedChem Symposium sponsorship from Celgene with more sponsorships expected; current variance of \$21K is positive to budget but typically expenses are higher in the 2<sup>nd</sup> half of the year; Section currently has \$341K in assets, \$7.4 K increase from last year.

**Picnic** – Picnic had 124 attending. Special thanks to cooks Jim Shih and Rodney Harris, and to Julann Miller for organizing another tasty dessert contest. Many other volunteers aided in making this another successful event.

**50-60 Yr Luncheon** – Vi at La Jolla Village hosted a fine luncheon in the same dining room as two years ago; 74 attended, the largest ever. Eight of 14 50-yr and 4 of 5 60-yr honorees attended. Vi hosted it gratis because one of their residents, George Fujimoto, was honored.

**MedChem** – Registrations running ahead of last year at this point; \$6000 in sponsorship expected; UCSD increased support to \$1000; speakers are all on board. David Wallace asked whether speakers should be taken out for dinner; Tom Beattie said in the past there had been no interest in that by speakers.

**August Monthly** – Had to be rescheduled to Aug. 26; Arnab Chatterjee - Director of Medicinal Chemistry at Calibr - to be held at Calibr; insurance document sent and catering is arranged. Biotage is a sponsor; Beckman-Coulter is also possible.

**Sept Monthly** – Talk on biosimilars, at Scintillon, which will sponsor at 6868 Nancy Ridge Rd. No date yet; will be late Sept.

**ChemExpo** – Oct. 24. Insurance letter sent from ACS; assuming Jackie Trischman will provide one from the Girl Scouts; theme this year is "Chemistry Colors Our World"; could use help recruiting company tables; contact San Diego Science Alliance for help in publicizing event.

**Distinguished Scientist Award** – In response to a request, 4 nominations were received; committee has reached a consensus and hope to be able to announce it at next ExComm Meeting.

**Nov Monthly Seminar** – Nothing to report.

**Elections** – Jim Shih not present. Jackie Trischman will again handle on-line voting. Need to print up cards to mail telling members to notify if they want a paper ballot.

**YCC Symposium** – National asked if we would be willing to organize a YCC Symposium at the Spring National Meeting in SD; YCC local chairs to contact National YCC Chair for further information.

**Project Seed** – Gulín Erdogan not present but Bill Szabo reports that both USD and TSRI have their programs underway and spent the money; anticipate the students will present their work at a research symposium at the end; look at a way to invite them to present at a Section meeting.

**Website Development** – Ken Ajayi proposed updating the website to make it more compatible with smart phone displays, providing more summary information on the opening page. He offered to provide a prototype at next ExComm and said he could have changes running by the end of Aug.

**Cell Phone App** – Michael Coste proposed working on a cell phone app to facilitate notifications and disseminate information to students K-12. It was not clear how this would interact with our current Constant Contact method. He will bring further thoughts on this later.

**Section Outreach** – Ben Pratt suggested we should begin Section meetings with plugs promoting our current outreach activities.

**Western Regional Meeting** – Tom Beattie launched a lengthy discussion on having ExComm decide whether it would sponsor a WRM. He suggested that the best time consistent with National meetings and locations would be to do it in the fall of 2018. Depending on the size and character of the meeting it could be a substantial commitment, especially if we try to match the previous WRMs we sponsored which contributed substantially to Section assets. If so, we should be starting the planning process in earnest this year. He was adamant that we should not continue to "kick the can down the road" – we need to make a decision. It was agreed that the first need is to identify and get commitment from two key individuals – a General Chair and Program Chair – who would define the scope of the meeting and commence recruiting a supporting committee. It was also noted that enlisting these individuals will probably require personal contact and encouragement.

**Action:** Ben Pratt will issue a general call to members to elicit interest in the project.

Next meeting: August 6, 2015.

**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/>.

**2015 Drug Design and Delivery Symposium  
Symposium Schedule**

**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-acis-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**

|                                     |            |                |
|-------------------------------------|------------|----------------|
| <a href="#">Midwest (MWRM)</a>      | Oct. 21-24 | St. Joseph, MO |
| <a href="#">Southeast (SERMACS)</a> | Nov. 4-7   | Memphis, TN    |
| <a href="#">Western (WRM)</a>       | Nov. 6-8   | San Marcos, CA |

**2016 ACS REGIONAL MEETINGS**

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



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## 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](mailto: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

## 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](http://www.acs.org/erc).

## HELP A TEACHER AS AN ACS SCIENCE COACH

Want to get involved with a local school? Help a science teacher in the classroom? Interact with students while doing demonstrations and labs? You can do all these activities and more as an [ACS Science Coach](#). By volunteering to assist one science teacher throughout a school year, Science Coaches provide support to local schools by enhancing science education. They may perform a Jack-of-all-trades role, but most Science Coaches help teachers by answering tough chemistry questions, advising students on careers in chemistry, assisting during science labs, or giving chemical safety tips. The requirements to become a Science Coach are easy: Commit to six, 1-hour teacher visits over the course of a year; be a current or retired professional chemist, graduate student, or postdoctoral scholar; and possess a passion for inspiring future generations of chemists. Find out more [here](#) about ACS Science Coaches. Enrollment for the 2015-16 school year is now open. **Applications are accepted on a rolling basis until October 30, 2015.**

## AMERICAN CHEMICAL SOCIETY 45<sup>TH</sup> 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 45<sup>th</sup> 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.

**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](mailto:WRM2015Chair@gmail.com))

Program Co-Chairs: Dr. Michael Kleinman ([mtkleinm@uci.edu](mailto:mtkleinm@uci.edu)),

Dr. Keisuke Ikehata ([kikehata@pacewater.com](mailto:kikehata@pacewater.com))



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### BRIDGES ACROSS THE PACIFIC: PACIFICHEM 2015

DECEMBER 15-20, 2015  
HONOLULU, HI

Housing 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](http://www.pacificchem.org)



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**The San Diego Chemist**

Please contact Renate Valois at  
[renate@sandiegoacs.org](mailto:renate@sandiegoacs.org)

### **Attention Companies!** **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](mailto:trischma@csusm.edu)

760-750-4206

#### **Palomar College**

Greg Elliot

[gelliott@palomar.edu](mailto:gelliott@palomar.edu)

858-531-1149

#### **Point Loma Nazarene University**

Sara Choung

[SaraChoung@PointLoma.edu](mailto:SaraChoung@PointLoma.edu) 619-849-2627

#### **San Diego Mesa College**

Dwayne Gergens

[dgersens@sdccd.edu](mailto:dgersens@sdccd.edu)

619-388-2609

#### **San Diego Miramar College**

Fred Garces

[fgarces@sdccd.edu](mailto:fgarces@sdccd.edu)

619-388-7493

#### **San Diego State University (SDSU)**

Mikael Bergdahl

[bergdahl@sciences.sdsu.edu](mailto:bergdahl@sciences.sdsu.edu) 619-594-5865

#### **Southwestern College, Chula Vista**

David Hecht

[dhecht@swccd.edu](mailto:dhecht@swccd.edu)

619-421-6700x5461

#### **University of California, San Diego**

Joe Cribari

[jcribari@ucsd.edu](mailto:jcribari@ucsd.edu)

858-822-4055

Gourisankar Ghosh

[gghosh@ucsd.edu](mailto:gghosh@ucsd.edu)

858-822-0469

Judy Kim

[judyk@ucsd.edu](mailto:judyk@ucsd.edu)

858-534-8080

#### **University of San Diego**

Tammy Dwyer

[tdwyer@sandiego.edu](mailto:tdwyer@sandiego.edu)

619-260-4030

### **ACS MEMBERS SAVE ON SHIPPING SERVICES**

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**UPCOMING EVENTS**

**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*

\*\*\*\*\*

**SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST**

*Coco's Bakery Restaurant*

*4280 Nobel Drive, San Diego, CA 92122*

*Thursday, October 1, 2015, at 9:30 AM*

\*\*\*\*\*

**CHEMEXPO**

*THEME: Chemistry Colors Our World!*

*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*

\*\*\*\*\*

**SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST**

*Coco's Bakery Restaurant*

*4280 Nobel Drive, San Diego, CA 92122*

*Thursday, January 7, 2016, at 9:30 AM*

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

Leslie Carvalho  
Melissa Chandler  
Daniel Chase  
Gang Chen  
Jessica Gendernalik  
Elizabeth Jacobs  
Brittney Klasic  
Kenneth Marsh  
Jennifer Michaud  
Holger Monenschein  
Edan Ram  
Dale Schoener  
Camille Sultana  
Xiaofei Wang  
Zoe Wright

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

**EXECUTIVE COMMITTEE**

|                    |  |        |              |
|--------------------|--|--------|--------------|
| <i>Chair</i>       | Ben Pratt, Akarna Therapeutics, <a href="mailto:bpratt@sandiegoacs.org">bpratt@sandiegoacs.org</a>                     | (2015) | 858-945-7893 |
| <i>Chair-Elect</i> | Graeme Freestone, Dart NeuroScience LLC, <a href="mailto:gfreestone@sandiegoacs.org">gfreestone@sandiegoacs.org</a>    | (2015) | 858-246-8137 |
| <i>Past-Chair</i>  | Mark Tichenor, Janssen Pharmaceuticals, Inc., <a href="mailto:mtichenor@sandiegoacs.org">mtichenor@sandiegoacs.org</a> | (2015) | 858-334-8914 |
| <i>Secretary</i>   | William Tolley, Seacoast Science, Inc., <a href="mailto:w_tolley@juno.com">w_tolley@juno.com</a>                       | (2015) | 858-780-0978 |
| <i>Treasurer</i>   | Bill Szabo, <a href="mailto:bszabo1@san.rr.com">bszabo1@san.rr.com</a>   | (2015) | 858-550-0306 |

**Councillors**

|  |        |              |
|--|--------|--------------|
| 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 Councillors**

|   |        |                    |
|---|--------|--------------------|
| 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, Aetheria 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 |
|---------------------------|--------------|

**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 |
|-----------------------------------|--------------------|

**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 |
|---|--------------|

**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 |
|---------------------------------|--------------|

**Mad Science Program**

|                   |              |
|-------------------|--------------|
| Thomas R. Beattie | 858-587-1210 |
|-------------------|--------------|

**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, Aetheria Therapeutics | 858-692-0639 |
|-----------------------------------|--------------|

**Nominations Committee**

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

**Picnic Committee**

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

**Professional Development Committee**

|   |              |
|---|--------------|
| Ruo Steensma, Steensma Consulting, Inc. | 858-205-9371 |
|---|--------------|

**Public Relations Committee**

|                |              |
|----------------|--------------|
| John Schindler | 858-353-3943 |
|----------------|--------------|

**Retired Chemists Committee**

|                        |              |
|------------------------|--------------|
| Ken Poggenburg (Chair) | 760-635-2573 |
|------------------------|--------------|

**Seniors Breakfasts**

|                   |              |
|-------------------|--------------|
| Thomas R. Beattie | 858-587-1210 |
|-------------------|--------------|

**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