



The San Diego Chemist

American Chemical Society
Volume 27, Number 12

San Diego Section
December 2015

Annual Meeting and Holiday Party

DATE: Thursday, December 3, 2015

TIME: 5:30 PM Social Hour

6:30 PM Buffet Dinner

7:30 PM Presentations

PLACE: The Butcher Shop Steakhouse
5255 Kearny Villa Road, San Diego, CA 92123

PRICE: \$25.00 per Dinner - \$15.00 with student I.D.

RSVP: Monday, November 30, 2015
<http://sandiegoacsdec2015.eventbrite.com/>



Ben Pratt
2015 Chair



Graeme Freestone
2016 Chair

If you are unable to register online, please use voice mail: 619-687-5570

*Join us for our last big event in 2015! Come meet the San Diego Section Executive Committee members and hear election results for new officers. **Ben Pratt**, the 2015 Chair, will give the year-end wrap-up, and **Graeme Freestone**, the 2016 Chair, will discuss plans for the coming year. This is a great meeting to attend if you have been thinking about becoming more involved in SDACS activities!*

Season's Greetings!

CHAIR NOTES

Dear ACS Members:

Happy Holidays!

The last lecture in the 2015 theme of "Chemistry: Outside the Box", featured **Dr. Jim Shigley** from the Gemological Institute of America (GIA). His lecture provided an insight into the unique educational institute that is the GIA and how the GIA has shaped consumer confidence in the gemstone trade through a process of identification, grading, and certification. The event was well attended and continued the goal of engaging a broader audience within the SDACS.

Mark your calendars for these upcoming events:

The year-end wrap up and holiday party will be held at The Butcher Shop Steakhouse on Thursday, December 3rd. This event is a good time to meet other ACS members and hear about many ways to become involved in the Local Section. Thank you to **David Wallace** for the event planning. I will summarize the Local Section's 2015 activities, and 2016 Local Section chair, **Graeme Freestone**, will give an introduction to his plans for the section events scheduled in 2016. Please register at www.sandiegoacsd2015.eventbrite.com

Our next Executive Committee Meeting will be held on January 5th. Please join us and share your ideas for what you would like to see from the ACS in 2016.

The end 2015 brings with it the conclusion of my role as chair of the San Diego Section. It has been a privilege to serve and I have truly enjoyed meeting so many of the Section members. I would like to extend a special thank you to the members of the Executive Committee who do the majority of the work behind the scenes to make the events and Section run smoothly.

On behalf of the San Diego ACS Executive Committee, I would like to extend our thanks to the event sponsors, general sponsors, the volunteers and the membership. See the rest of this newsletter for additional information regarding upcoming ACS and other events in the San Diego area.

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.

OBITUARY

The Local Section of the American Chemical Society was saddened to learn of the passing of **Nancy Taylor**, a STEM education and Community leader, on October 24th. To learn more about Nancy please visit <http://sdsa.org/the-loss-of-a-stem-education-and-community-leader-nancy-taylor-3/>

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 2016

6:00 – 8:00 pm

Tuesday	January	5
Thursday	February	4
Tuesday	March	1
Thursday	April	7
Tuesday	May	3
Thursday	June	2
Tuesday	July	5
Thursday	August	4
Tuesday	September	6
Thursday	October	6
Tuesday	November	1

Meetings will be held at:

9381 Judicial Drive, Suite 160
San Diego, CA 92121



SCHRÖDINGER.



SheppardMullin



Wilson Sonsini Goodrich & Rosati
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 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 28 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

2016 ACS PROJECT SEED REQUESTS FOR FUNDING NOW BEING ACCEPTED!

The Executive Committee of the San Diego Section of the American Chemical Society has again approved limited funding for the ACS Project SEED program in 2016.

This 47-year-old summer research internship provides economically disadvantaged high school juniors and seniors with an opportunity to work side-by-side with scientist-mentors on research projects in local academic, government, and industrial laboratories. Click <http://www.acs.org/content/acs/en/education/students/highschool/seed.html> for more information about ACS Project SEED.

If you are an institutional coordinator or high school teacher and have an interest in applying for support from the ACS-San Diego Section in 2016, please send details (including the level of funding requested) to:

Mark Tichenor - mtichenor@sandiegoacs.org

The deadline for receipt of your request for funding is **January 31, 2016**. Student selection is the responsibility of the participating institution(s).

Give a young student the unique chance to experience real-world scientific research!

The 213th Meeting of the Two-Year College Chemistry Consortium (2YC3) <http://www.sdcity.edu/2yc3>

We invite you to attend the 213th 2YC₃ meeting on **March 11-12, 2016**. The conference will take place at **San Diego City College**, located on 1313 Park Blvd, San Diego, CA 92101. We currently are looking for colleagues who would like to contribute to our program by giving a presentation, leading a workshop, or participating in a panel discussion. We especially encourage topics related to our theme, **"Teaching Chemistry Through Its Social Impacts."** If you would like to present on a different topic, please do not hesitate to submit an abstract, as we encourage as diverse a program as possible. The due date for submitting abstracts (via email to the Program Co-Chairs) is **February 15, 2016**.

Program Co-Chairs

Nancy Crispen: ncrispen@sdccd.edu

Joann Um: jum@swccd.edu

Haim Weizman: hweizman@ucsd.edu

Local Arrangements Chair

Robert Kojima: rkojima@sdccd.edu

Exhibits Coordinator

Shane Haggard: mhaggard@sdccd.edu

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, 2015 Chair
San Diego Section of the American Chemical Society
bpratt@sandiegoacs.org

ChemExpo 2015

The San Diego Section of the American Chemical Society (ACS) celebrated National Chemistry Week (NCW) by hosting ChemExpo on Saturday, October 25th. This year's theme was "*Chemistry Colors Our World*". The event was a collaboration with Miramar College Chemistry Faculty and Professor **Linda Woods** (who is now at Mira Costa College). This was the second year the event was held at Miramar College.

The local universities and colleges ran stage shows. Miramar College had several hands-on demo booths. We saw an increase in the number of company and organization booths. New exhibitors from 2014 were: [Bio4Front](#), [Cal State Northridge](#), [Embitec](#), [NatSurFact - Logos Technologies](#), [SDSU Structural Biology Lab](#) and [NanoTecNexus](#). Repeat participants were: [AWIS](#), [CAICE](#), [CaSTL Center](#), [Seacoast Sciences](#), [San Diego APCD](#), [SWIGS](#) and [Tioga Research](#).

Several simplifications were made this year. We eliminated the raffle cash prizes. Instead, chemistry-related prizes were raffled off. The raffles were run as part of the stage shows, acting as successful draws. We discontinued the fill-in-the-blank-questions extra credit questions. We also discontinued the "Ask-A-Chemist" partly because of the difficulty of getting enough volunteers. Volunteers felt the students were engaged even without the motivation of the fill-in-blanks. *Bio4Front* did feature a chemist in a lab coat to answer questions about chemistry careers.

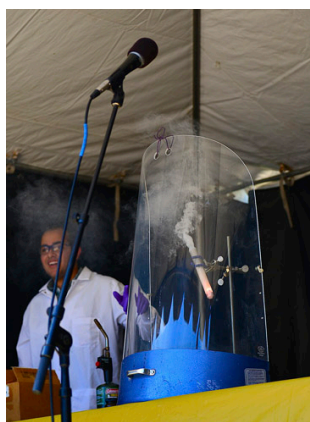
We estimated a peak attendance of 1,100 students in 2013, the last year ChemExpo was held in Balboa Park. We have seen a decline in overall numbers since then. Last year the estimate was 927 students. This year's attendance was about 740 which includes 140 Boy Scouts and Girl Scouts. The decline in overall numbers was not apparent during the event. Volunteers stayed busy interacting with students. The walkways were crowded. Shaded areas were filled with parents taking breaks from the action. The audiences were packed around the stage shows.

Thank you also to volunteers **Julann Miller, Jackie Trischman and Margaret Tessier**.

ChemExpo was again a success this year.

Paul Bruinsma
Photo credits: Jim Shih





AN EVENING WITH DR. JAMES SHIGLEY

Dr. Jim Shigley, distinguished research fellow at the Gemological Institute of America in Carlsbad, presented a lecture titled "Identifying Gemstones: Are They Real." The lecture was held on November 19th at Takeda California. Almost 80 attendees were given an introduction to the GIA, and then dazzled with a description of how the GIA investigates and identifies the many ways people manipulate natural gems and other materials to increase their value. Over the last 80 years, the researchers at the GIA have created a grading system for many precious gems and have used numerous spectroscopic techniques to determine whether gems are natural, fakes, or have been altered. Annealing, irradiating, coating, drilling and dying are just some of the ways that precious gems can be altered to change their color or clarity. Keen investigative work has allowed the GIA to recognize signs of gem alteration so owners can know what they have and purchasers can be confident in their purchases. Additional information about the GIA, gem grading, educational programs and the latest gemological research can be found at www.gia.edu.

The SDACS is grateful to **American Laboratory Trading (ALT)** for sponsorship of the event and **Takeda California** for generous use of the lecture room.



Text and photo by Ben Pratt

CLOCK CORRECTION

Congratulations to **Bill Szabo** and **Paul Bruinsma** for correctly identifying the error in the clock that appeared in the October and November issues of *The San Diego Chemist*:

The error: For 5 o'clock the formula $\sqrt{9!} - 9/9$ should be $\sqrt{9!} - 9/9$ (the factorial symbol, !, should be *outside* of the square root symbol).

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 times 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

ACS PUBLICATIONS LAUNCHES MOBILE-OPTIMIZED WEB PLATFORM

ACS Publications has introduced **ACS2Go**, pubs.acs.org/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 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.

CHEMPLOYMENT 776

Position Title

Process Development Scientist

Job Description

Nucelis LLC, an industrial biotechnology company in San Diego, CA, is looking for a full-time Scientist to join the R&D team in the development of industrial purification processes downstream of microbial fermentation, for the production of high value specialty chemicals for use in the cosmetics, food, flavors & fragrances, and biofuel markets.

Summary

- Design and carry out experiments leading to the development and scale up of isolation and purification processes starting from fermentation broth.
- Perform scale-up, scale-down experiments to gain knowledge of isolation and purification processes at scales up to 200L and then transferring the process to contract manufacturing sites.
- Perform and develop analytical tests to measure fermentation metabolites, biocatalyst products and other process related analytes to support development of fermentation and downstream processes. Typical techniques used include HPLC, GC, wet chemical and spectroscopic methods of analysis.
- Evaluate experimental and production data, prepare written and oral technical reports and represent Nucelis at business and scientific meetings.

Description of Company

Nucelis LLC is a pioneering bio-technology company built on a platform of unique, patented technology for optimizing cell structure and function. For more information, please see <http://nucelis.com/>

Requirements

The ideal candidate will have a Ph.D. or equivalent in, Chemistry, Chemical Engineering Biochemistry, Biotechnology, Biochemical Engineering, Biology, or equivalent, with experience in developing industrial scale isolation and purification processes, lab safety/proficiency, etc.

Experience with various analytical techniques and equipment such as HPLC, GC, titrations, UV/Vis spectrophotometry and TLC. Experience with HPLC/MS or GC/MS is a plus.

Application Instructions

Nucelis provides an attractive compensation and benefits package that includes medical/dental, 401(k) plan and generous vacation and sick leave. If you enjoy working as part of a team and want to join our dynamic company, please email your résumé to hr@nucelis.com and reference job code: NC020

CHEMPLOYMENT 777

Position Title

Research Scientist, Medicinal Chemistry

Description of the Position

We are seeking a highly motivated chemist to join our drug discovery team. The qualified candidate will have recent industry experience in modern synthetic methods and a strong knowledge of current synthetic advances. Working on our interdisciplinary drug discovery programs, they will further develop the company's technology and intellectual property. In addition, within a discovery project, the candidate will analyze SAR, propose target molecules, develop and execute a synthesis of the targets for biological assays. The successful candidate will work closely with other scientists to efficiently evaluate and progress lead compounds. The qualified individual must be adaptable to a fast-paced and dynamic environment, and be strongly motivated to succeed.

Duties and Responsibilities

- Develop and execute synthetic routes of target molecules, including work up, purification, isolation, and characterization of products; work on mg to 100g scale; develop scalable routes of preclinical drug-candidates.
- Overcome challenging synthetic problems; ability to troubleshoot, come up with alternative synthetic strategies, and develop innovative and practical chemistry solutions.
- Understand the goal and strategy of the project and positively and proactively contribute to project success.
- Design of novel organic compounds drug candidates using data and SAR analysis from all aspects of a small-molecule research program including, enzyme assays, cell-based assays, DMPK, toxicology, structural information, molecular modeling, physiochemical properties, literature reports, and other information.
- Communicate effectively both in oral and written form, including preparing short reports and delivering internal and external presentations in a timely manner; including for CROs and other collaborators.
- Ensure that the company's intellectual property is fully protected by keeping detailed experimental details in laboratory notebooks according to company policy, including analytical data and other scientific information.
- Contribute to the writing of patents, scientific presentations, and publications.
- Perform routine maintenance on laboratory equipment and instruments.
- Command of the relevant and latest scientific literature in order to advance research projects.
- Organize and prioritize workload to meet timelines; investigate the feasibility of applying a wide variety of scientific principles and concepts to potential inventions, products and problems.
- Work effectively in a multi-disciplinary environment that requires close collaboration with scientists with different expertise and experience. Exhibit flexibility and adaptability as projects and goals often shift.
- Maintain a clean and safe laboratory environment; take personal responsibility for individual and co-worker safety and strictly adhere to all safety procedures and policies.

Qualifications

- B.S./M.S. degree in Chemistry with 5-8 years experience or Ph.D. degree in Organic/Medicinal Chemistry with 0-5 years of related experience.
- Expertise in synthetic organic chemistry, including methodologies, transformations, and mechanisms.
- Demonstrated expertise in multi-step synthesis and strong knowledge of techniques related to purification and characterization of organic compounds (NMR, MS, HPLC, etc).
- Able to work independently and apply experience and knowledge to solve difficult synthetic challenges and provide useful guidance to other chemists on the project team.
- Maintains an excellent scientific expertise in organic synthesis, conversant with the current literature.
- Proven track record of innovative project contributions including peer-reviewed publications.
- Excellent organization, written and oral communication skills; strong interpersonal skill, able to interact effectively within a multidisciplinary team and dynamic environment.
- Self-motivated and enthusiastic; self-leadership and management skills required along with the ability to be adaptable and have a high degree of flexibility.
- Demonstrates intellectual curiosity and scientific versatility by a willingness to take on challenging and complex problems and finding innovative solutions.

Company Description

Kalyra Pharmaceuticals, Inc. is a San Diego founded small molecule drug discovery company with a core technology based in organic chemistry. We strive to create value and benefit patients by addressing unmet medical needs across multiple therapeutic areas through innovative science and breakthrough solutions. We offer a stimulating, challenging and productive discovery environment with a strong commitment to developing both the synthetic and medicinal chemistry skills of our team.

Application Instructions

Qualified applicants please send CV and Research Summary to careers@kalyrapharma.com

CHEMPLOYMENT 778

Position Title

Senior Research Scientist, Medicinal Chemistry

Description of the Position

We are seeking a highly motivated medicinal chemist to join our drug discovery team. The qualified candidate will have substantial medicinal chemistry experience in an industry environment and a strong knowledge of modern synthetic methods. In addition, the candidate will help lead and drive drug discovery program, analyze SAR, propose target molecules, develop and execute synthesis of the targets for biological assays. The candidate will work closely with other scientists to efficiently evaluate and progress lead compounds and further develop the Company's technology and intellectual property portfolio. The qualified individual must be adaptable to a fast-paced and dynamic environment, and be strongly motivated to succeed.

Qualification

- Ph.D. in Organic or Medicinal Chemistry with 8+ years of pharmaceutical industry and medicinal chemistry experience
- Excellent knowledge of medicinal chemistry principles with a solid understanding of the basic biology and pharmacology of programs, the ADME issues, and series SAR. Able to effectively integrate this knowledge and apply the key principles of medicinal chemistry, literature precedent, and drug design to direct medicinal chemistry programs to phase transitions or series go/no go decisions.
- Ability to make inventive contributions towards new chemical target structures or templates for programs, and employ sound judgment in the evaluation and strategic decision making around early screening or literature hits.
- Strong skills in gathering, documenting, and analyzing information from competitive sources such as patents and meetings and using this information to guide program strategy.
- High level of creativity and productivity with strong synthetic problem solving skills; excellent scientific expertise in organic synthesis, conversant with the current literature. Ability to champion the chemistry efforts into new directions to achieve project milestones.
- Strong working knowledge of protein-ligand interactions, conformational and structural analysis, experienced in partnering closely with computational chemists through appropriate use of computational tools, models and visualization applications.
- Proven leadership capability in cross-functional team setting, either as project team leader or co-lead; able to effectively manage and prioritize resources to deliver on timelines; able to make hard decisions to ensure project success on timelines and budget.
- Strong evidence of conceptual thinking and active follow through, recognized by establishing new projects or new directions within projects, new strategies and/or enabling technologies for drug discovery. Vigorous scientific curiosity evidenced by contributions to diverse medicinal chemistry strategies.
- Communicate effectively both in oral and written form, including preparing short reports and delivering internal and external presentations in a timely manner; including for CROs and other collaborators.
- Work effectively in a multi-disciplinary environment that requires close collaboration with scientists that have different expertise and experience. Exhibit high degree of flexibility and adaptability as projects and goals often shift. Self-motivated and enthusiastic; self-leadership and management skills required.

Company Description

Kalyra Pharmaceuticals, Inc. is a San Diego founded small molecule drug discovery company with a core technology based in organic chemistry. We strive to create value and benefit patients by addressing unmet medical needs across multiple therapeutic areas through innovative science and breakthrough solutions. We offer a stimulating, challenging and productive discovery environment with a strong commitment to developing both the synthetic and medicinal chemistry skills of our team.

Application Instructions

Qualified applicants please send CV and Research Summary to careers@kalyrapharma.com



[ACS Industry Voices: Taking It to the Next Level](#)

ACS Industry Member Programs brings you the [ACS Industry Voices](#) blog, with weekly posts that share stories, lessons, advice, and general musings from around the chemical technology field. In this week's entry, ACS past President [Bill Carroll reflects on what comes next, and how to get there.](#)

**SUMMARY OF SAN DIEGO SECTION
EXECUTIVE COMMITTEE MEETING MINUTES
November 5, 2015**

Treasurer's Report – Receipts since previous meeting: \$55 from Pfizer employee via their United Way Campaign, \$2K from Awards Banquet; Expenses: ChemExpo to date \$1,300 excluding a few odds & ends (under budget), \$5,800 to UCSD for Awards Banquet, \$1,000 deposit for Year-End Banquet, renewal for storage locker, awards totaling \$1,740 (cash and engraving of plaques); YTD net surplus of \$2K; receivables of \$1,250; Vanguard Fund up \$8,300 since this time last year

Awards Banquet – 81 attendees; cost was somewhat more than previous years

ChemExpo (PB) – Expanded from last year; ~740 students; eliminated "Ask a Chemist" activity; slightly higher cost because of more displays

E3 Civic High School – Toured school's lab, then answered questions and made Liquid Nitrogen Ice Cream

Nov. Monthly – Dr. Jim Shigley from GIA discussing gemological forensics; venue Takeda; ALT sponsoring

Year-End Wrap-Up – The Butcher Shop has our reservation

Mad Science – 11th year of SDACS sponsorship of Mad Science program targeting 4th grade students; 30 events scheduled for this Fall; >55,000 students have seen our programs

Motion: Appropriate up to \$8K to continue Mad Science programs in 2016 - **Approved**

Project SEED – Three students supported this year; communications from institutions was minimal and not what we would like

Motion: Appropriate up to \$5K with stipulation that institutions have mentors by Jan. 31 - **Approved**

Med Chem Symposium – Mark Tichenor volunteered to organize

Motion: allocate \$4K as seed money for Med Chem - **Approved**

SD Festival of Science and Engineering – Submitted request for booth (same size as last year); Expo Day is Mar 5, 2016

Action: Ben to check on officials from National that might be here for the National Meeting interested in participating in Festival

2016 ExComm Meeting Dates – Graeme to decide 2016 dates

Elections – Jonathan considering running for chair-elect

Website – In process of migrating content to new Website and coding App

Spring National Meeting – Section has option to host a booth, looking for staffing and ideas of displays; National requires 10 volunteers to act as pages

IPG – USD (Peter Iovine) interested in seeking grant for Polygrid Symposium

2YC3 Conference – Joanne Um is organizer for Conference for 2-year institution instructors, Mar 11-12

75th San Diego Section Anniversary – Section founded Apr 7, 1941 at SDSU; proposing symposium for ~6 speakers and posters; target of 200 attendees, requesting \$2K from Section; intending to invite past Section chairs to attend, possibly past Distinguished Scientists; include invitation at National Meeting
Will start planning for Anniversary celebration

WRM 2015 – 270 presentations listed in program; WR Board to meet during the conference

Long-term planning – Theme: Diversity of Chemistry in San Diego

Next meeting: Jan 5, 2016

**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/>.

Chemistry & the Economy: Global Outlook 2016
Thursday, December 3, 2015 @ 2-3pm ET

Outsmarting the Shortage: The Emergence of Base Metal Catalysis in Pharma
Thursday, December 10, 2015

PACIFICHEM 2015

The [2015 International Chemical Congress of Pacific Basin Societies](#)

December 15-20, 2015, in Honolulu, HI.

For more information visit www.pacificchem.org

**251ST AMERICAN CHEMICAL SOCIETY NATIONAL
MEETING & EXPOSITION**

Convention Center

San Diego, CA

March 13-17, 2016

Registration opens December 14!

For more information, please visit:

<http://www.acs.org/content/acs/en/meetings/spring-2016>

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	October	26 - 28	Manhattan, KS
SWRM	October	10 - 13	Galveston, TX

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ACS2Go can be accessed at 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.



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The San Diego Chemist
Please contact Renate Valois at
renate@sandiegoacs.org

SLAS AND ACS SAN DIEGO COLLABORATIVE CONFERENCE
SLAS2016 Conference and Exhibition
January 23-27, 2016
San Diego Convention Center

ACS San Diego members are invited to participate in SLAS2016, an international event expected to draw some 5,000 life sciences R&D professionals to the San Diego Convention Center, January 23-27. SLAS2016 offers a full scientific program featuring more than 130 podium presentations, exhibition, poster presentations, short courses, career workshops and much more.

[SLAS2016 links to <http://www.slas2016.org/index.cfm>]

The SLAS2016 scientific program features seven educational tracks:

- Advances in Bioanalytics, Biomarkers and Diagnostics
- Assay Development and Screening
- Automation and High Throughput Technologies
- Cellular Technologies
- Drug Target Strategies
- Micro/Nano Technologies
- Informatics

Admission to the SLAS2016 Exhibition is free, but you must register. Exhibits-only registration includes the opportunity to tour the Exhibition featuring more than 300 leading multinational providers of laboratory technology and related products and services, as well as the opportunity to participate in a wealth of career-focused events:

- Workshops on mentoring, transitions, work/life balance and negotiations
- SLAS Career Connections (job board and more)
- One-on-one mentoring sessions (advance sign up required)

[register links to <http://www.slas2016.org/registration/>]

[career-focused events links to <http://www.slas2016.org/conference/earlycareer.cfm>]

Members of ACS San Diego are assisting SLAS by serving as mentors for this popular program.

Come Transform Research. SLAS is a global community of more than 20,000 life sciences professionals—from academia, government and industry—collectively focused on leveraging the power of technology to achieve scientific objectives. If attending the full conference, there are registration discounts available for SLAS members, academic/government professionals, students and organizations that register five or more employees at the same time.

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

Learn more. Contact us: Email: hach@acs.org

Phone: (800) 227-5558 ext. 8178

CHEMISTRY FOR YOU AND YOUR KIDS

"To bubble or not to bubble, that is the question"

Sometimes, certain chemicals can get dissolved in water that can change the way water and soap or detergent work together. Let's see if dissolving table salt in water changes the amount of suds your soap can make!

You will need

Eye protection • Cup • water • soap • sink • salt • measuring spoons

1. Hold a bar of soap in your hands. Ask your adult partner to slowly pour a cup of warm water over the soap as you move the soap in your hands to make suds.
2. Look at the amount of suds you made and then rinse off your hands. Add two tablespoons of salt to a cup of warm water and stir until most or all of the salt dissolves.
3. Hold the soap again as you did before. Ask your adult partner to slowly pour the salt water over the soap as you move your hands to make suds. What did you notice?

Excerpt: "The Best of WonderScience," pg. 79, Delmar Publishers, 1997

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Help Guide ACS with Your Valuable Input by Joining the ACS Insight Lab

You are cordially invited join the [ACS Insight Lab](#), a forum for you and other ACS members to offer guidance and perspective to help shape the future of ACS and the broader chemistry community. Your feedback and insight will help the ACS improve and develop new programs and services. Your membership in the ACS Insight Lab will give you the ability to share your insights and experiment with new ideas; grant you access to the *Lab Report* newsletter, covering what we've learned from you and how it has been implemented; notify you of exclusive sneak peeks and early-bird offers from the ACS; and make you eligible to win prizes for participating. Head over to www.acsinsightlab.com/ACSMatters to sign up today!

VOLUNTEER OPPORTUNITIES -- MAKE A DIFFERENCE!

Share your passion for chemistry with others. We've organized many ways for you to promote chemistry to children within your community, and to lawmakers. Explore to find opportunities that fit your interests and schedule!

BE A CHEMISTRY AMBASSADOR -

<http://www.acs.org/content/acs/en/volunteer/chemambassadors.html>

VOLUNTEER WITH KIDS & CHEMISTRY -

<http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html>

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 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
dgergens@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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For information contact:

Renate Valois - renate@sandiegoacs.org

UPCOMING EVENTS

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

SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING

FESTIVAL WEEK: March 5-13, 2016

EXPO DAY at PETCO Park: Saturday, March 5, 2016

<https://www.lovestemsd.org/>

251st ACS SPRING NATIONAL MEETING & EXPOSITION

San Diego, California

March 13-17, 2016

THE 62nd ANNUAL GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR

March 15 - 20, 2016

Balboa Park Activity Center (2145 Park Blvd.)

For information please see <http://www.gsdsef.org/>

EARTH DAY - EARTHFAIR 2016

Sunday, April 17, 2016

Balboa Park, San Diego, CA

<http://www.earthdayweb.org>

SUMMER PICNIC

Sunday, June 26, 2016

San Dieguito County Park, Solana Beach

252nd ACS FALL NATIONAL MEETING & EXPOSITION

Philadelphia, Pennsylvania

August 21-25, 2016

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

Joel Arias
Adam Arroyo
Michael Baude
David Brown
Silvia Calderon
Deyin Chen
Michael Cochran
Melodie Dick
Collin Fischer
Tony Gibson
Adam Grosvirt-Dramen
Natalia Harvey
Heather Hayes
Xia He
Jeff Hernandez
Zhenmin Hong
Gian Itani
John Jaskowiak
Kelsey Krug
Karrie Kwok

Brian Leon
Hiroko Masamune
Quang Nguyen
Michael Nicholl
Joseph Palomba
Michelle Powelson
Derek Price
Alyssa Robbins
Swagat Sahu
Joshua Savage
Chloe Sells
Cassandra Siler
Myoung Song
Sean Toenjes
Qingzheng Wang
Nicole White
Mathew Yanik
Daniel Yarbrough
Yi Rui Zhu

**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, bszabo1@san.rr.com	(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, Avidity NanoMedicines LLC	(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
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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), Avidity NanoMedicines LLC	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, Aetheria 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), Avidity NanoMedicines LLC	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