



The San Diego Chemist

American Chemical Society
Volume 29, Number 12

San Diego Section
December 2017

Annual Meeting and Holiday Party

DATE: Thursday, December 7, 2017

TIME: 5:30 PM Social Hour

6:30 PM Buffet Dinner

7:30 PM Presentations

PLACE: Sufi Mediterranean Cuisine
5915 Balboa Avenue
San Diego, CA 92111

PRICE: \$20.00 per Dinner - \$10.00 with student I.D.

RSVP: Wednesday, December 6, 2017

<https://sdacs2017holidayparty.eventbrite.com>



Jonathan Lockner
2017 Chair



Jennifer Barber-Singh
2018 Chair

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

*Join us for our last big event in 2017! Come meet the San Diego Section Executive Committee members and hear election results for new officers. **Jonathan Lockner**, the 2017 Chair, will give the year-end wrap-up, **Jennifer Barber-Singh**, the 2018 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 year-end wrap-up and holiday party will be held at Sufi Mediterranean Cuisine Restaurant on **Thursday, December 7**. This event is a wonderful time to meet other ACS members and hear about the many ways to get involved in our Local Section. I will summarize the Local Section's 2017 activities, and 2018 Local Section Chair, Jennifer Barber-Singh, will give an introduction to her plans for next year!

Please register at <https://sdacs2017holidayparty.eventbrite.com>
As 2017 comes to an end, so does my time as Chair of the San Diego Local Section. It has been a privilege and an honor to serve! I owe a debt of gratitude to members of our Executive Committee and numerous other volunteers who contributed their time and talents to filling this year with programs, events, and partnerships that should make us all very proud of SDACS!

If you wish to get involved in the ACS San Diego Local Section, I encourage you to attend an Executive Committee meeting next year. The first one of the New Year will be held on **Thursday, January 4**. All are welcome! Our extraordinary volunteers drive the community impact and programming success of our Local Section. Play your part in 2018!

Jonathan W. Lockner, Ph.D.
2017 Chair, San Diego Section
American Chemical Society
Email: jlockner@sandiegoacs.org
Web: www.sandiegoacs.org

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 2017 Chair, **Jonathan Lockner**, at jlockner@sandiegoacs.org. Once approved, Jonathan will see that your announcement is published on our website (www.sandiegoacs.org) and, if received by the 20th 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 **2,500 members** of the ACS-San Diego Section, each potential customers for your products and services! **Quick turnaround:** Ad copy submitted by the 20th of each month will be published by the end of that month. For more information, please contact:

Renate Valois at renate@sandiegoacs.org

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 Ashkan Tafti at
atafti@sandiegoacs.org

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

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

Advertisers: Ad prices as of January 1, 2015:
Size (w x h) Number of Issues & Price/Issue

	1	3	6
2" x 3"	\$ 75	\$ 68	\$ 58
4.5" x 1.5"	\$ 80	\$ 74	\$ 67
4.5" x 4.75"	\$200	\$184	\$163
8.5" x 5.5"	\$400	\$360	\$310
full page	\$655	\$590	\$510

Discounts will be available for issues not shown.

Please send your jpg to:

Renate Valois at renate@sandiegoacs.org.

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 Date 2018

6:00 – 8:00 pm

Thursday	January	4
Thursday	February	1
Thursday	March	1
Thursday	April	5
Thursday	May	3
Thursday	June	7
Thursday	July	12
Thursday	August	2
Thursday	September	6
Thursday	October	4
Thursday	November	1

Meetings will be held at:

9381 Judicial Drive, Suite 160
San Diego, CA 92121



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!

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

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:

Jonathan Lockner
2017 Chair
San Diego Section of the American Chemical Society
jlockner@sandiegoacs.org

ACS-HACH PROGRAMS

[ACS-Hach Professional Development Grant](#)

Funds professional development experiences for secondary chemistry teachers

Award Amount: Up to \$1,500

Application Period: end December 15th

[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

Award Amount: \$10,000 for full-time study

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.

Award Amount: Up to \$6,000 for full-time study and up to \$3,000 for part-time study

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.

Award Amount: Up to \$6,000 for full-time study and up to \$3,000 for part-time study

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 -- Phone: (800)227-5558, ext. 8178

CHEMEXPO 2017: ANOTHER SUCCESSFUL NATIONAL CHEMISTRY WEEK!

ChemExpo is the San Diego Section's celebration of National Chemistry Week (NCW). Through booths and stage shows, area high school students, Girl and Boy Scouts, and the general public are shown how chemistry is applied in everyday life. October 28th was our 30th ChemExpo, the fourth one at Miramar College. Our volunteers made the ChemExpo a successful event. We had strong participation from the student and faculty volunteers from Miramar and MiraCosta Colleges.

The ChemExpo was well attended. The booths were filled with students coming in groups, one after another. The volunteers were impressed with the students' enthusiasm and their good questions. The booths were busy from the kickoff to just before closing. We handed out 510 extra-credit forms to our high school student attendance. We were thankful for moderate weather instead of the heat wave the week prior!

Jackie Trischman (Cal State San Marcos) stated this was a particularly good year with the Scouts with 229 kids in attendance, including 132 Girl Scouts and 97 Boy Scouts. The Scouts had the same number of 2nd-3rd grade at each gender, but more 5th-8th grade girls and more high school boys because of the specific badges offered. The Scout's side of the ChemExpo was full for everything except for the Boy Scout Geology badge, Webelos Earth Science Adventure, and Seniors/Ambassador Girl Scouts Discovering Geology. But there were more Chemistry Badge Boy Scouts than ever before (40 of them!!!). The dens and troops are starting to recognize the ChemExpo as a great event.

In fact, both Boy Scouts and Girl Scouts had personnel at our event this year to help with the San Marcos student volunteers. Their help with registration and advertising next year will be welcome. They were impressed with the quality of the program, and especially liked that there were so many practicing chemists to meet along with the college students both at booths and on stage. The demos were a hit in the evaluations. Jackie is already working on next year's theme.

Hands-On-Tables were run by Miramar and MiraCosta students and faculty. UCSD, USD, CSUSM, Southwestern College and PLNU. The company and organization booths were run by Association of Women in Science, Society for Women in Graduate Studies, California State University at Fullerton, UCI Center for Chemistry at the Space-Time Limit, SeaCoast Science, San Diego Air Pollution Control District, Tioga Research and Pfizer. High school students ran a booth to highlight their "JOURNYLS" publication (*Journal of Youths in Science*). Several SDACS Executive Committee and general SDACS members ran the "Ask a Chemist" booth. A great success this year, the booth gave students an opportunity to talk with working chemists about their experiences.

The members of the ChemExpo organizing committee were Rebecca Bowers-Gentry (Miramar College), Namphol Sinkaset (Miramar), Olga Fryszman (Miramar), Gary Smith (Miramar), Linda Woods (MiraCosta College) and, from the ACS San Diego Section Executive Committee: Paul Bruinsma, Julann Miller, James O'Brien and Jim Shih.

Next year National Chemistry Week is October 21-27. Pending a permit from Miramar College, ChemExpo 2018 will be Saturday, October 27th. The theme is "Chemistry is Out of This World" with focus on chemistry of and in outer space. Let's see how we can use the theme in college stage demonstrations and demo booths!





Text: Paul Bruinsma
Photo credits: Jim Shih

**ART AS EVIDENCE:
THE SCIENTIFIC EXAMINATION OF WORKS OF ART**
By
Karen Trentelman, Ph.D.

On Thursday, November 9th, over 120 (posted room capacity is 118) people gathered for our Local Section's monthly meeting. The first hour was spent socializing over pizza in the atrium of the Skaggs Institute (Molecular Biology Building) at The Scripps Research Institute (TSRI). Then, everyone packed into Committee Lecture Hall (CLH) for a superb seminar presentation by **Dr. Karen Trentelman**. **Dr. Trentelman** is a Senior Scientist at the Getty Conservation Institute (GCI) in Los Angeles, California. She is not an art conservator, *per se*, but she works with conservators (as well as historians, curators, and artists) in order to apply sophisticated analytical techniques to examine works of art ranging from mummy portraits to oil paintings to charcoal drawings. Many of her studies involve collaborations with synchrotrons, instrument manufacturers (e.g., Bruker), and even the UCLA hospital (for MRI of an actual mummy!). Considering the extreme value of the works of art she and her team studies, her techniques are predominantly non-invasive. Nevertheless, tremendously thought-provoking new insights are obtained through her analytical methods. It was a real treat to see just how powerful the application of chemical science with the aid of advanced analytical tools can have such a huge impact even in the art world! It was a thoroughly enjoyable talk that was a treat for all who attended!



Jonathan Lockner, Chair



Karen Trentelman



Text: Jonathan Lockner
Photo credit: Shannon Woodruff

CHEMISTRY FOR YOU AND YOUR KIDS

Oh Say Can you Seesaw!

When sitting on a seesaw, you have probably noticed that a person who doesn't weigh much can balance a heavy person if the people are positioned at different places along the seesaw. In the following activity, you can use a real seesaw or a ruler as the seesaw and pennies as the people.

You will need

Safety glasses • Seesaw or ruler • tape • pencil • 2 books of the same thickness (about 4 cm) • pennies

1. You and your adult partner should sit on opposite ends of the seesaw. If you both lift your feet off the ground, which one of you tilts down to the ground? If your adult partner is heavier, where should he or she sit on the seesaw so that it would be balanced? Try it and find out.
2. If you sat halfway between your end and the center of the seesaw, where would your adult partner have to sit so that the two of you will be balanced?
3. If you can't get to a seesaw, you and your adult partner can make a model of one! Take a flat ruler and tape a pencil across the back of the center of the ruler. Place the pencil and ruler between two books as shown. It may not balance right away, but you can use pennies to make it balance.
4. Place a penny at each end of the ruler. Adjust the pennies back and forth until the ruler is balanced. Now stack another penny on one of the pennies. How do you have to move the pennies to get the ruler to balance?
5. Now stack another penny so that you have three pennies stacked on one side and one on the other. See if you can make them balance. How many pennies can you stack and still be able to balance them with one penny at the other end?
6. With the large stack of pennies still on one side, add another penny to the end with one. What are the two ways you could make the ruler balance? Try other combinations and see if you can begin to predict where the different stacks of pennies will need to be to balance the ruler.

Excerpt: "The Best of WonderScience," pg. 47, Delmar Publishers, 1997

VOLUNTEER WITH KIDS & CHEMISTRY

Kids & Chemistry is a community-based program that brings together scientists and children to do hands-on science activities. Volunteers include ACS members, ACS Student Chapters, and corporate groups. Volunteers include ACS members, ACS Student Chapters, and corporate groups.

Volunteer efforts can be implemented as a full program administered by an ACS local section or by an individual as a one-time classroom visit. The program can also be incorporated into an existing corporate outreach/education program, or serve as the focal point for a larger mentoring program.

For more details, please see: <http://www.acs.org/content/acs/en/education/outreach/kidschemistry.html>

BE A CHEMISTRY AMBASSADOR!

Volunteer to put a human face on science and help connect chemistry with everyday life! Promote chemistry to children, your community, lawmakers and others.

Volunteer Opportunities: Activities and ideas for getting involved in outreach. Explore to find activities that fit your interests and schedule! For more details, please see: <https://www.acs.org/content/acs/en/volunteer/chemambassadors.html>

It Pays to be a Volunteer! Volunteers have 27% higher odds of finding a job after being out of work than non-volunteers. The odds increase to over 50% for those without a high school diploma or who live in rural areas. Source: Corporation for National and Community Service. (June 2013). *Volunteering as a Pathway to Employment*.

BUILD MOLECULES IN MY MOLECULARIUM – A FREE NEW GAME APP



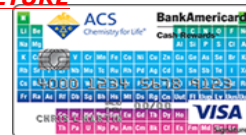
Everybody will be blown away by *My Molecularium*, a fun, new molecule-building game, and they'll have fun learning real science while they play. This fast-paced, free game app challenges players to build a wide variety of fascinating molecules, from water and vitamin C to caffeine and adrenaline.

My Molecularium is available for free at the Apple App Store or Google Play today! The app is the latest effort of the successful *Molecularium*® Project, spearheaded by faculty at Rensselaer Polytechnic Institute

and funded by the National Science Foundation and others to excite audiences of all ages to explore and understand the molecular nature of the world around them.

THE ACS BANK OF AMERICA CASH REWARDS™ CARD—YOUR TICKET TO CULTURE

Your weekend pass to more than 175 U.S.-based cultural resources—museums, zoos, science centers, botanical gardens and more—may already be in your pocket. *ACS Bank of America Cash Rewards™* cardholders can get free admission on the first full weekend of every month, just show your ACS Cash Rewards™ card and photo ID. See a list of participating organizations [here](#). Don't have an ACS periodic table Cash Rewards™ card? Call [1-800-932-2775](tel:1-800-932-2775) and ask for code GAARVO, or [apply online](#).



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. **ACS2Go** can be accessed at pubs.acs.org on a tablet or smartphone. Please see for more information: pubs.acs.org/acs2go.



LEARN PHARMACOKINETICS AND SAFETY PHARMACOLOGY ONLINE OR IN PERSON

If you interact with biological and medicinal chemistries, it's important for you to remain on top of upcoming trends and emerging technology. That's why ACS Professional Education has an ongoing commitment to provide you with the most up-to-date training taught by top instructors and industry leaders. Register today for

[Pharmacokinetics for Chemists: Essential Concepts for Drug Development](#) or [Pharmacokinetics and Pharmacodynamics for Chemists Online Short Course](#), where you'll work with accomplished industrial drug-discovery expert [Terry Kenakin](#). For more information and to register, visit www.ProEd.acs.org.

**SUMMARY OF THE SAN DIEGO SECTION
EXECUTIVE COMMITTEE MEETING MINUTES
November 2, 2017**

Treasurer's Report – Revenue about equals income: \$9,250 in, \$9,800 out; expenses for awards, Mad Science, storage space, ChemExpo, one more councilor travel, another Local Section allotment this year totaling ~\$7500, estimate ~\$5K deficit for the year

Website – Big spikes in Web hits whenever Newsletter e-mail is sent

Voicemail – Voicemail is working, Section could switch to Google voice-mail for cost savings

Elections – Ballot hardcopies mailed to Section members without e-mail addresses

ACS Fellows – Need to decide on potential candidates and begin paperwork

Awards Banquet – 65 attendees (30 of them students), awards to three outstanding Section members in addition to Distinguished Scientist; cost \$83 per person, only two attendees from general Section membership, suggesting need for better publicity or redirect our efforts

ChemExpo – Many volunteers from universities / colleges, improved stage demonstration format, ~120 Miramar College volunteers, more attendees (229) from Girl / Boy Scouts, 500 extra-credit forms distributed, at least two high schools sent volunteers, good Talk to a Chemist activity

Nov. Monthly Meeting – Karen Trentelman, Chemistry of Art Conservation, Scripps Institute Committee Lecture Hall, ~100 registered to date

Year-end Wrap-up – Sufi Mediterranean, Dec. 7, banquet room reserved (but will be using common buffet serving area to reduce cost)

Mad Science – Requesting authorization for next year, 30-33 programs – 45-min. presentation, usually request that host teachers have students to prepare something relating to the presentation

Motion: authorize \$8,000 for 2018 for as many program as can be done - **Approved**

SDSU Chemistry Club Fundraiser – Propose for students to pay to make soap from coconut oil + NaOH

YCC – Survey of interest among group submitted through Listserv (35 responses from ~2500 notifications), Fleet Science Center responded with interest; propose inviting Jyllian Kemsley (C&EN) to make presentation on alternative careers for chemists; SWIGS to cohost, 1 day, expenses would be airfare from Oakland for speaker

Next meeting: Jan. 4, 2018



inChemistry magazine, the information hub for student members, is now online! Visit inchemistry.acs.org for articles, videos, and infographics on professional development, grad school, careers, ACS student chapter activities, and much more.



LOOKING FOR A CHEMIST?

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THE SAN DIEGO CHEMIST**

is read by nearly 3000 chemists and biochemists in San Diego and Imperial Counties.

A two-month ad costs only \$80.00!

For information contact:

Renate Valois – renate@sandiegoacs.org

SUBMIT ABSTRACTS AND REGISTER NOW FOR PANIC 2018



Abstract submissions for the [Practical Applications of NMR in Industry Conference \(PANIC 2018\)](#) are open for scientists who wish to present. *PANIC 2018 will be held March 4–8, 2018, at the San Diego Marriott La Jolla, in La Jolla, CA. Hotel accommodations at the group rate are available until February 10. Plan to arrive early to attend the Users' Meetings on Sunday, March 4.*

Register online. Visit the [PANIC 2018](#) website for more information.

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Stephanie L. Seidman, Ph.D.

Admitted in the District of Columbia only

Partner, San Diego

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2018 ACS REGIONAL MEETINGS

Northeast (NERM)	June 1 - 3	Lake Placid, NY
Central (CERM)	June 13 - 16	Toledo, OH
Northwest (NORM)	June 24 - 27	Richland, WA
Midwest (MWRM)	October 21 - 23	Ames, IA
Southeastern (SERMACS)	October 31 - November 3	Augusta, GA
Southwest (SWRM)	November 7 - 10	Little Rock, AR

Analytical Chemistry Problems?

- Method Development, R&D and Forensic Analysis-security clearance eligible
- Qualitative and Quantitative Analysis using GC, LC, IR, MS, MS/MS, etc.
- Professor of Analytical Chemistry with 43 years industrial and academic experience

(619) 518-5304



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

MiraCosta College

Linda Woods

lwoods@miracosta.edu

760-757-2121 Ext. 6411

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

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



YOUR AD HERE!

Place your ad in the next issue of

THE SAN DIEGO CHEMIST

For information contact:

Renate Valois - renate@sandiegoacs.org

UPCOMING EVENTS

HOLIDAY PARTY

Sufi Mediterranean Cuisine
5915 Balboa Avenue, San Diego, CA 92111
Thursday, December 7, 2017

SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST

Bristol Farms Café - Costa Verde Shopping Center - Genesee Ave. and Nobel Drive
University City
Thursday, January 11, 2018, at 9:30 AM

THE BIOCOM INSTITUTE FESTIVAL OF SCIENCE AND ENGINEERING

EXPO Day at PETCO Park
Saturday, March 3, 2018
<https://www.lovestemsd.org/>

THE 64th ANNUAL GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR

Balboa Park Activity Center (2145 Park Blvd.)
For information please see <http://www.gsdsef.org/>
Judging - Wednesday, March 14, 2018

255th ACS NATIONAL MEETING & EXPOSITION

New Orleans, Louisiana
March 18-22, 2018

EARTH DAY - EARTHFAIR 2018

Balboa Park, San Diego, CA
<http://www.earthdayweb.org/>
Sunday, April 22, 2018

SUMMER PICNIC

San Dieguito County Park, Solana Beach
Sunday, June 24, 2018

256th ACS NATIONAL MEETING & EXPOSITION

Boston, Massachusetts
August 19-23, 2018

CHEM EXPO

Outerspace - Chemistry is Out of This World
San Diego Miramar College, 10440 Black Mountain Road, San Diego
10440 Black Mountain Rd, San Diego
Saturday, October 27, 2018

HOLIDAY PARTY

Sufi Mediterranean Cuisine
5915 Balboa Avenue, San Diego, CA 92111
Thursday, December 6, 2018

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

Rachel Abaskharon
Bashayer Althufairi
Michael Alves
Angie Angeles
Kristine Arquero
Brandon Aubol
Christopher Beierschmitt
Steven Bloom
Byron Boon
Roy Case
Jonathan Cook
Jade Corpus-Sapida
Saptaparna Das
Tiffany Ellison
Michael Fazio
Daniel Ferris
Kimberly Fitchmun

Erica Forsberg
John Friedline
Cesar Garcia
Ritika Gautam
Eleanor Gillette
Amy Gilson
Olivia Greenwood
James Ha
David Horning
Alexis Komor
James Maxwell
Jose Medina
Keaton Mertz
Adam Mezo
Luca Monfregola
Sung-Ju Moon
Purba Mukherjee

Saman Nanayakkara
Hoa Nguyen
Rochellene Nunez
Brianna Parish
Samantha Payne Landgrave
Aruna Perera
KiraPodolsky
Wenbin Qi
Jacob Shake
Smilez Sybounma
David Taylor
Nicholas Tu
Hetika Vora
Chengchi Wang
David Weinstein
Guangyu Zhu

**2017 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY**

EXECUTIVE COMMITTEE

<i>Chair</i>	Jonathan Lockner, Point Loma Nazarene University, jlockner@sandiegoacs.org	(2017)	858-688-8143
<i>Chair-Elect</i>	Jennifer Barber-Singh, BioFluidica, jbsingh@sandiegoacs.org	(2017)	858-869-7084
<i>Past-Chair</i>	Graeme Freestone, Dart NeuroScience LLC, gfreestone@sandiegoacs.org	(2017)	858-246-8137
<i>Secretary</i>	William Tolley, Seacoast Science, Inc., b_tolley@juno.com	(2017)	858-780-0978
<i>Treasurer</i>	Graeme Freestone, Dart NeuroScience LLC, gfreestone@sandiegoacs.org	(2017)	858-246-8137

Councilors

Thomas R. Beattie	(2018)	858-587-1210
Hui Cai, WuXi AppTec	(2019)	858-361-8838
Desiree Grubisha, Halozyme Therapeutics	(2018)	858-254-5497
John Palmer	(2017)	858-265-9198
Ken Poggenburg	(2019)	760-635-2573
David Wallace, Wallace Scientific Consulting	(2018)	858-638-1866

Alternate Councilors

Paul Bruinsma, HP Inc.	(2017)	858-655-8322
Surya K. De, Plex Pharmaceuticals, Inc.	(2019)	858-337-4961
Julann Miller, Waters Corporation	(2017)	800-252-4752 x6802
Ben Pratt, Allergan	(2019)	858-945-7893
John Schindler	(2019)	858-353-3943
Jim Shih, Eli Lilly & Co	(2017)	626-826-3561

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Ryan Clark, Inception Sciences, Inc.	(2017)	858-774-2095
Bill Szabo	(2019)	858-550-0306
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Bryce Timm, Chair	512-545-9287
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