



The San Diego Chemist

American Chemical Society
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San Diego Section
April 2018

SEARCHING FOR SELECTIVITY: THE IDENTIFICATION OF NOVEL MODULATORS THAT TARGET DOPAMINERGIC SIGNALING

David R. Sibley, Ph.D.

**Section Chief and Senior Investigator
Molecular Neuropharmacology Section**

National Institute of Neurological Disorders & Stroke/NIH, Bethesda, MD

DATE: Wednesday, April 18, 2018
TIME: 6:00 PM Social Hour, Light Supper
7:00 PM Lecture
PLACE: San Diego State University
Department of Chemistry and Biochemistry, SSW 1500
5500 Campanile Drive, San Diego, CA 92182
RSVP: By Wednesday, April 18, 2018
<https://davidsibley-sdsu.eventbrite.com>



DIRECTIONS: From Interstate 8
Take College Ave Exit and head South. The Chemical Sciences Laboratory building is right next to the exit ramp on College Ave. Stay in the left lane and turn left at the first red light. Drive into Parking Structure 1 and park in any Faculty/Staff slot on Level 1 (no parking permit needed). Take the garage elevator to Floor 6 and walk across the pedestrian bridge over College Avenue. Walk across Aztec Circle Drive and take the 13 steps ahead of you. Walk 95 steps towards the clock tower and you will see SSW 1500 Lecture Hall on your right.

ABOUT THE SPEAKER

Dr. Sibley received his B.S. degree in Biology from San Diego State University and worked on his undergraduate research projects in the biochemistry laboratory of Professor Steve Dahms. Dr. Sibley received his Ph.D. in Physiology/Pharmacology from the University of California, San Diego, where he worked with Professor Ian Creese studying the ligand binding properties of dopamine receptors. He subsequently carried out postdoctoral work with Robert Lefkowitz at Duke University where he characterized adrenergic receptor regulatory mechanisms. Dr. Sibley moved to the NINDS in 1987 and was appointed Chief of the Molecular Neuropharmacology Section in 1992. His laboratory is currently investigating the molecular, cellular and biochemical properties of dopamine receptors and their role in neuronal signaling.

ABOUT THE PRESENTATION

Dopamine is a critical neurotransmitter in the brain and periphery and is involved in the control of movement, memory, reward, cognition and neuroendocrine modulation. Correspondingly, dysregulation of dopaminergic signaling is implicated in various diseases such as schizophrenia, Parkinson's disease, depression, Tourette's syndrome and ADHD. The hallmark of all these disorders is that they are treated with drugs that either stimulate or block dopamine receptor subtypes. The actions of dopamine are mediated by a family of five unique G protein-coupled receptors (D1 - D5). Notably, the D2 dopamine receptor is one of the most validated targets in neuropsychiatry serving as the primary target for drugs that treat schizophrenia, Parkinson's disease and several other disorders. Unfortunately, many drugs that target the D2 receptor lack selectivity and cross-react with other GPCRs leading to numerous deleterious side effects. Further, recent evidence suggests that the D2 receptor signals through various intracellular pathways only some of which may be linked to therapeutic effects. As such, it would be highly beneficial to have therapeutics that target the D2 receptor, and its signaling pathways, in a more selective fashion. We have recently used high throughput screening to interrogate large chemical libraries to identify novel chemical scaffolds with unique pharmacological characteristics for targeting the D2 receptor. The use of medicinal chemistry approaches to optimize these hit compounds has led to the discovery of highly selective antagonists of the D2 receptor that may represent improved antipsychotics for the treatment of schizophrenia. Similarly, we have identified functionally-selective, or signaling biased agonists of the D2 receptor that have provided molecular insights into how this receptor activates multiple signaling pathways. Overall, these studies illustrate how dopamine receptors can be targeted more selectively to potentially result in improved therapeutics for neuropsychiatric disorders.

CHAIR NOTES

Dear ACS Members,

Spring is here! We had a busy month in March and are looking forward to many more activities in the next few months. Last month, the theme was outreach. On March 3rd, at the Biocom Institute Festival of Science and Engineering Expo Day at Petco Park, we provided a fun demo for kids of all ages. Special thanks go to students and staff of Southwestern College, notably **Laleña Janke** and **Joann Um!**

On March 14th, at the Greater San Diego Science & Engineering Fair at Balboa Park, our team of judges identified outstanding projects by middle and high school students. Special thanks go to **Ken Poggenburg** and **Jim Shih** for rallying the troops!

On March 10th and 11th, local high school students took the Chemistry Olympiad Local Exam. There were more than 100 students representing more than 20 high schools in our Local Section who participated in this year's local test, and sixteen students qualified for the National Exam. Special thanks go to **Joan Schellinger** at the University of San Diego for organizing and hosting!

Each of these events rely on volunteers. Would you like to help next year? Contact me or the individuals named above! Turning to April, there are two events coming up.

On Wednesday, April 18th, the chemistry department at SDSU, in collaboration with the Local Section of the ACS, is hosting a lecture given by **David R. Sibley, Ph.D.**, Section Chief and Senior Investigator at the National Institute of Neurological Disorders & Stroke/NIH. For more information please visit our Eventbrite site: <https://davidsibley-sdsu.eventbrite.com>

On Sunday, April 22nd, the community will get together in Balboa Park to celebrate Earth Day. We are looking for volunteers to help us set-up and host a table/booth at this event. We have access to supplies and information from the National ACS to share with our local community how chemists help save the Earth! Please contact me, jbsingh@sandiegoacs.org, if you would be interested in getting involved.

Jennifer Barber-Singh, Ph.D.

2018 Chair

San Diego Section of the American Chemical Society

E-mail: jbsingh@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 2018 Chair, **Jennifer Barber-Singh**, at jbsingh@sandiegoacs.org. Once approved, Jennifer 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

CONGRATULATION



to **Valerie Kuck** for being the recipient of the Francis P. Garvin–John M. Olin Medal which she received during a special event at the National Meeting in New Orleans in March. Valerie was honored for her research on coating for copper wires and optical fibers along with her efforts in creating a more diverse and inclusive Society.

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	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.

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

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:

Jennifer Barber-Singh
2018 Chair
San Diego Section of the American Chemical Society
jbsingh@sandiegoacs.org

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

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

Application Period: **Contact participating universities directly for application details**

[ACS-Hach Post-Baccalaureate Teacher Scholarship](#)

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

Application Period ends: April 1st

[ACS-Hach Second Career Teacher Scholarship](#)

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

Application Period ends: 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

CALL FOR NOMINATIONS ACS FELLOWS PROGRAM

The American Chemical Society (ACS) Fellows Program was created by the ACS Board of Directors in December 2008 to recognize members of ACS for outstanding achievements in and contributions to science, the profession, and the Society. Read more about the [program purpose here](#).

The nomination period for the 2018 Class of ACS Fellows opened on February 1, 2018. It will end at 11:59 PM 1 April 2018.

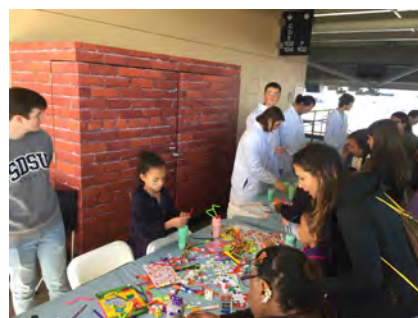
Use link for guideline from ACS National:

https://www.acs.org/content/dam/acsorg/funding/fellows/acs-fellows-program-guidelines_2018.pdf

If the volunteer work done by the nominee was performed on behalf of the San Diego Section, the chair or a designee from the executive committee familiar with the service or scientific work will be happy to write a nominating letter. The overall purpose of the program is to recognize the top 1-2% of scientists or volunteers in the ACS. People who are generously compensated will not be considered. Contact John Schindler at jwschind@sbcglobal.net for assistance.

THE BIOCUM INSTITUTE FESTIVAL OF SCIENCE AND ENGINEERING
EXPO Day at PETCO Park
Saturday, March 3, 2018

Each spring, the Biocom Institute Festival of Science & Engineering hosts a weeklong event all around the county that kicked off on March 3rd for the Expo Day at Petco Park. The Local Section of the ACS has hosted a table for several years, and our popularity was undeniable this year. We had volunteers from the ACS chapter, Southwestern College, and SDSU who helped several hundred kids make "foam monsters" using the Flinn Scientific polyurethane foam kits. Volunteers had the kids choose their preferred monster color and mixed equal parts of polymer A and B and stirred vigorously. The kids were very interested in the reaction, and we discussed the fact, that the presence of gas molecules was the reason for the monster growing, and we had them feel the sides of the cup to show that it was exothermic. Once the foam monsters finished growing, there was a decoration station where kids and parents could add eyes, ears, and glitter to their heart's content. We were so popular that we ran out of cups several hours before the event ended, and we had parents seeking high and low for cups so that we could make their kid a monster too. The kids were very excited about being able to take their monster home. We will have to buy more of everything next year!



**CONGRATULATIONS TO WINNERS OF THE ACS SCIENCE AWARDS
AT THE 2018 GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR
MARCH 14, 2018**

Senior Division

First Place:

Project #127
A Novel Approach to Increasing the Permeability of Desalination Membranes
By Andre Yin, West View High School, Grade 12, Advised by: Scott Halander

Second Place

Project #125
Photo-induced Degradation of Porous Silicon via a Redox Active Etchant
By Taraneh Barjesteh, Canyon Crest Academy High School, Grade 12, Advised by: Ariel Haas

Third Place:

Project #116
An HPLC Study of Vitamin C Concentration in Citrus Fruits
By Joseph Kalyuzny, Mt. Everest Academy, Grade 10, Advised by: Huy Tran

Junior Division

First Place:

Project #663
Which Oil Makes the Best Ferrofluid
By Nadia Salah, Islamic School of San Diego, Grade 8, Advised by: Arwa Alkhawaja

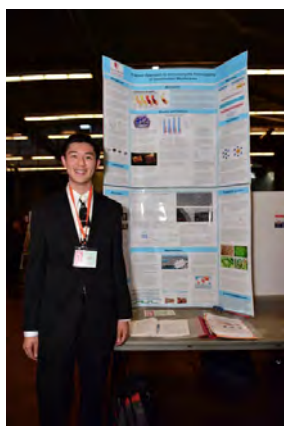
Second Place:

Project #656
Dividere, "to Separate"
By Valentine King, Classical Conversations, Grade 7, Advised by: Shannon King

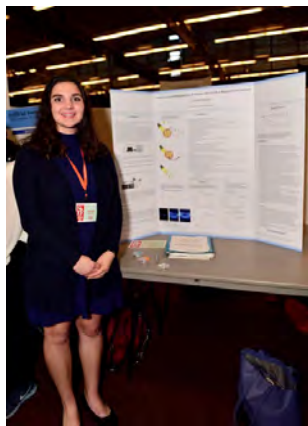
Third Place:

Project #664
How do Different Oils Used to Make Soap Affect Hardness
By Owen Smith, Correia Middle School, Advised by: Sandra Smith

We thank our members who gave their time at the Greater San Diego Science & Engineering Fair to act as judges for the ACS Chemistry Awards. See group photo below.



Andre Yin



Taraneh Barjesteh



Joseph Kalyuzny



Nadia Salah



Valentine King



Owen Smith



Jerry Albert, Jim Shih, Ken Poggenburg,
Gregory Beuerlein, Kendra Hailey, Jerry Zhao

Text: Ken Poggenburg, Photo Credit: Jim Shih



Family Picnic

Free Food, Games & Fun for Families, Friends & Fido!

DATE: Sunday, June 24, 2018

WHERE: Picnic Area #3, San Dieguito County Park, Solana Beach, at Lomas Santa Fe Drive and El Camino Real. Pay parking fee (\$3.00/car, free for seniors). At booth, proceed to Picnic Area #3 Parking.

Note: Due to the San Diego County Fair there may be heavy traffic on I-5 near the Lomas SantaFe exit. Please allow extra driving time!

TIME: 11:30 AM - 4:00 PM (food served from approx. noon to 3 PM)

WHO: Youngsters, seniors, in-betweensters, guys, gals, chemists, recovering chemists, guests and other friends of the ACS!

WHAT: BBQ, cold drinks, games and prizes for children of all ages. **Please bring a homemade dessert to enter the Best Dessert Contest. Prizes will be awarded!** If you bring a cold dessert, bring a cooler. Guests with special dietary needs should provide for them.

RSVP: As soon as possible but no later than **Thursday, June 21st**, by registering at <http://sdacs2018picnic.eventbrite.com/>. Please tell us how many adults and how many children (with their ages) will be in your party, as well as total number of vegetarians.

- **Younger Chemists:** *Schmooze and network! Invite your friends! Make it WORK for you!*
- **Women Chemists:** *Meet and greet! Make this event a "Meeting Within a Meeting"! Share your ideas!*

Please contact Jim Shih to sign up:

tel. 626-826-3561 e-mail: jimshih@earthlink.net



**SUMMARY OF THE SAN DIEGO SECTION
EXECUTIVE COMMITTEE MEETING MINUTES
March 1, 2018**

Treasurer's Report – Since last meeting: finally received and deposited Local Section dues - \$5,300; expenses: reservation for Picnic, Science Festival Expo Day supplies; Vanguard fund dropped significantly; CD matures at the end of March and ExComm needs to decide where to put the monies

Feb. Monthly Meeting – Jyllian Kemsley(C&EN), good speaker and high proportion of students attending, 46 attendees but venue small, students very involved with speaker; side discussion on how to reach more of the university students, esp. undergrads

Program in a Box – Tues. Feb. 27, meeting jointly with American Association for Clinical Chemistry, attentive audience, topic of opioid structures

Project SEED - 3 mentors each at USD, SDSU have expressed in interest

Greater Science and Engineering Fair – Helpful to get at least 12 volunteer judges, 3/14

Chemistry Olympiad – Prof. Joan Schellinger organizing testing, Mar 10-11 USD, could use volunteers to register participants

Mad Science – Contracted for 32 programs, due to news coverage reporting on Mad Science, we have 26 of 32 scheduled from tomorrow to Oct.

Earth Fair – Reaching to Quang (UCSD) to host table

ACS Fellows – Call for nominations in now open, instructions now available from the Website

MedChem – July 20, Hojel Auditorium (same as last year), intimate space that encourages greater interactions among attendees, Mark arranging for venue, Ben has 3 speakers and still recruiting for another 4, date is now listed on Website events, UCSD handles registration

SDSU Symposium – Bill Tong will be meeting with faculty tomorrow to arrange speakers, date mid-April, typical monthly meeting jointly with SDSU

Next meeting: Apr. 5, 2018

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*.

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>

CHEMISTRY FOR YOU AND YOUR KIDS
Dish Detergent Dynamos!!!

You will need

Safety Glasses • Cinnamon • 8-oz clear plastic cup • liquid dish detergent • white typing paper

1. Fill the cup as full as possible without letting the water overflow.
2. Sprinkle a thin layer of cinnamon on the surface of the water.
3. Place a drop of dish detergent on the cinnamon. Watch the pattern that forms when the detergents "breaks" the water's surface tension.
4. Gently place the piece of typing paper flat on the water's surface and pick up the design made of cinnamon.
5. Lay the paper flat with the cinnamon side up and
6. Wash out the cup very thoroughly and try this activity again, but this time drop the dish detergent in a different spot on the layer of cinnamon. You should get a different design this time and every time you try it!

Excerpt: "The Best of WonderScience," pg. 127, Delmar Publishers, 1997

American Chemical Society
255th ACS National Meeting
New Orleans, LA
March 18-22, 2018

Councilor Talking Points: Summary of Governance Issues and Actions.

Full reports will be posted on the [ACS Website](#) as they become available.

The Summary is provided to help Councilors report to their Local Sections and Divisions on key actions of the [ACS Council meeting](#) held March 21, and Board of Directors meetings held March 16-18, at the [2018 spring national meeting](#) in New Orleans, Louisiana.

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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

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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

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<https://www.acs.org/content/acs/en/acs-webinars.html>



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For information contact: **Renate Valois** - renate@sandiegoacs.org



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Place your ad in the next issue of

THE SAN DIEGO CHEMIST

For information contact:

Renate Valois - renate@sandiegoacs.org

UPCOMING EVENTS

DAVID R. SIBLEY, PH.D.
Section Chief and Senior Investigator
Molecular Neuropharmacology Section
National Institute of Neurological Disorders & Stroke/NIH, Bethesda, MD
San Diego State University
Department of Chemistry and Biochemistry, SSW 1500
5500 Campanile Drive, San Diego, CA 92182
Wednesday, April 18, 2018

SENIORS/RETIRES/CONSULTANTS/ETC. BREAKFAST
Bristol Farms Café - Costa Verde Shopping Center -
Genesee Avenue and Nobel Drive, University City
Thursday, April 12, 2018, at 9:30 AM

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

21st ANNUAL SAN DIEGO MEDCHEM SYMPOSIUM

Hojel Auditorium and Arango Foyer, UCSD
The Institute of the Americas
10111 North Torrey Pines Road, La Jolla, CA 92093
Friday, July 20, 2018

256th ACS NATIONAL MEETING & EXPOSITION

Boston, Massachusetts
August 19-23, 2018

CHEM EXPO

Outerspace - Chemistry 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
Wednesday, December 5, 2018

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

Anton Alenko
Bashayer Althufairi
Luis Arrijoja
Robb Bagge
Renato Bauer
Victoria Berry
Imelda Calderon
Brian Cook
Sydney Davis
Charles Dhong
Norman Hughes
Annika Jarvinen
Woojoo Kim
Christine Klahn
Andrew Kleinschmidt

Grayson Lang
Yushan Liu
Jorge Martinez-Gonzalez
Kaitlin McFarland
Brian Mendelsohn
Christine Morrison
Kevin Oberg
Anne Roberts
Lauren Steinberg
Judith Stone
Chu-Hsien Tsai
Seth Veenbaas
Jeremy Wright
Jacqueline Wurst
Lihan Zhang

**2018 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY**

EXECUTIVE COMMITTEE

<i>Chair</i>	Jennifer Barber-Singh, BioFluidica, jbsingh@sandiegoacs.org	(2018)	858-869-7084
<i>Chair-Elect</i>	Ashkan Tafti, Catalent, atafti@sandiegoacs.org	(2018)	619-395-6412
<i>Past-Chair</i>	Jonathan Lockner, San Diego Miramar College, jlockner@sandiegoacs.org	(2018)	858-688-8143
<i>Secretary</i>	William Tolley, Seacoast Science, Inc., w_tolley@juno.com	(2018)	858-780-0978
<i>Treasurer</i>	Graeme Freestone, Ionis Pharmaceuticals, gfreestone@sandiegoacs.org	(2018)	858-539-6363

Councilors

Thomas R. Beattie	(2018)	858-587-1210
Hui Cai, WuXi AppTec	(2019)	858-361-8838
Desiree Grubisha, Halozyme Therapeutics	(2018)	858-254-5497
Valerie Kuck	(2020)	973-744-5510
Ken Poggenburg	(2019)	760-635-2573
David Wallace, Wallace Scientific Consulting	(2018)	858-638-1866

Alternate Councilors

Surya K. De, Plex Pharmaceuticals, Inc.	(2019)	858-337-4961
Julann Miller, Waters Corporation	(2020)	800-252-4752 x6802
Ben Pratt, Allergan	(2019)	858-945-7893
John Schindler	(2019)	858-353-3943
Jim Shih, Eli Lilly & Co	(2020)	626-826-3561
Shannon Woodruff, HP Inc.	(2020)	949-735-9021

Members-at-Large

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James Caldwell	(2019)	815-262-9697
Melissa Chandler, San Diego State University	(2020)	619-838-7867
James O'Brien	(2020)	858-336-0654
Bill Szabo	(2019)	858-550-0306
Joann Um, Southwestern College	(2019)	510-823-8637

STANDING & SPECIAL COMMITTEES

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John Schindler (Co-Chair)	858-353-3943

ChemExpo

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Paul Bruinsma, HP Inc.	858-655-8322

Communications Committee

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Ken Poggenburg	760-635-2573
Renate Valois (Newsletter Editor)	619-692-0638
David Wallace, Wallace Scientific Consulting	858-638-1866

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Seniors Breakfasts

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Women Chemists Committee

Valerie Kuck	973-744-5510
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Younger Chemists Committee

Bryce Timm	512-545-9287
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