

## **Spontaneous Achiral Symmetry Breaking in Organic Fluids**

**Professor David M. Walba**  
*Department of Chemistry  
University of Colorado at Boulder*

**DATE:** Monday, May 20, 2019  
**TIME:** 6:00 PM Social Hour, Light Supper  
7:00 PM Lecture  
**PLACE:** San Diego State University  
Department of Chemistry and Biochemistry GMCS 333  
5500 Campanile Drive, San Diego, CA 92182  
**RSVP:** By Friday, May 17, 2019  
<https://davidwalba-sdsu.eventbrite.com>



For more information, please see page 3

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***WE REGRET HAVING TO CANCEL THE WINERY EVENT  
AND APOLOGIZE FOR ANY INCONVENIENCE***

*Wine Tasting/Chocolate Pairing,  
Cheese & Fruit Plates, Winery Tour  
and Social Event at the Bernardo Winery!  
The ACS-San Diego Section invites you to join us for an  
informal evening of socializing, networking and learning!*

**DATE:** Thursday, May 23, 2019  
**TIME:** 6:00 pm – 9:00 pm  
**PLACE:** Bernardo Winery  
13330 Paseo Del Verano Norte  
San Diego, CA 92128  
Tel: (858) 487-1866  
[www.bernardowinery.com](http://www.bernardowinery.com)  
**COST:** \$20.00 online, \$30.00 at the door  
**RSVP:** At <https://SDACS2019winetasting.eventbrite.com>  
by Monday, May 20<sup>th</sup>. *Must be 21 or older to attend!*

## APRIL NOTES

Dear ACS Members,

There will be no monthly meeting in April; however there will be two events in May.

The first one takes place at SDSU on May 20<sup>th</sup>. Professor **David Walba** from the University of Colorado at Boulder will talk about "Spontaneous Achiral Symmetry Breaking in Organic Fluids". More information about the talk can be found on page 3.

Please register at <https://davidwalba-sdsu.eventbrite.com>

Our second May event will be a Wine Tasting/Chocolate Pairing, Cheese & Fruit Plates, Winery Tour at the Bernardo Winery. Please join us on May 23<sup>rd</sup> for an evening of socializing, networking and learning. You will find more about the event on page 4.

Please register at <https://SDACS2019winetasting.eventbrite.com>

A thank you to **Ken Poggenburg** for again organizing the judging at the 2019 Greater San Diego Science and Engineering Fair on March 13. Thank you also to **Jim Shih** for being the photographer.

We need volunteers on Sunday, April 28, for EarthFair 2019. Please contact **James Caldwell**, [jcaldwell@sandiegoacs.org](mailto:jcaldwell@sandiegoacs.org), if you would like to volunteer.

It is still very early, but not too early to mark June 30 for our annual picnic.

You may register at <https://sdacs2019picnic.eventbrite.com/>

Our next Executive Committee Meeting will be on April 11<sup>th</sup>.

As always, you are invited to our monthly Executive Committee meetings. If you are interested in serving our Local Section please contact Co-Chair Jennifer Barber-Singh, [jbsingh@sandiegoacs.org](mailto:jbsingh@sandiegoacs.org), or Co-Chair David Wallace, [davidmw@san.rr.com](mailto:davidmw@san.rr.com).

-Renate Valois for Jennifer Barber-Singh, 2019 Co-Chair  
San Diego Section of the American Chemical Society  
E-mail: [jbsingh@sandiegoacs.org](mailto:jbsingh@sandiegoacs.org)  
Web: [www.sandiegoacs.org](http://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 2019 **Co-Chair, Jennifer Barber-Singh**, at [jbsingh@sandiegoacs.org](mailto:jbsingh@sandiegoacs.org). Once approved, Jennifer will see that your announcement is published on our website ([www.sandiegoacs.org](http://www.sandiegoacs.org)) and, if received by the 20<sup>th</sup> of the month before the event, in *The San Diego Chemist* newsletter. This is a free service of the ACS – San Diego Section. Take advantage of it!

## ATTENTION ADVERTISERS

**Did you know** that *The San Diego Chemist* is the only monthly e-newsletter that targets chemists and chemical engineers in San Diego and Imperial Counties? As soon as our newsletter is uploaded on [www.sandiegoacs.org](http://www.sandiegoacs.org) a separate notification is sent to the **2,500 members** of the ACS-San Diego Section, each a potential customer for your products and services! **Quick turnaround:** Ad copy submitted by the 20<sup>th</sup> of each month will be published by the end of that month.

For more information, please contact:

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

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

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

**Advertisers:** Ad prices as of January 1, 2015:  
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
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8.5" x 5.5"	\$400	\$360	\$310
full page	\$655	\$590	\$510

Discounts will be available for issues not shown

Please send your jpg to:

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

## SECTION E-MAIL LISTSERVER!

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

To subscribe to our moderated listserver:

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

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

## Executive Committee Meeting Dates 2019

6:00 – 8:00 pm

Thursday	April	11
Thursday	May	2
Thursday	June	6
Thursday	July	11
Thursday	August	1
Thursday	September	5
Thursday	October	3
Thursday	November	7

Meetings will be held at:

**9381 Judicial Drive, Suite 160, San Diego**

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**Professor David M. Walba**

**Department of Chemistry  
University of Colorado at Boulder**

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Department of Chemistry and Biochemistry, GMCS 333  
5500 Campanile Drive, San Diego, CA 92182  
**RSVP:** By Friday, May 17, 2019  
<https://davidwalba-sdsu.eventbrite.com>



**DIRECTIONS: From Interstate 8**

Take College Ave. Exit and head South. The Chemical Sciences Laboratory (CSL) 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. Turn right on Aztec Circle Drive and walk to the GMCS Building (the next building on the right). Lecture Hall GMCS 333 is right behind the first entrance door.

**ABOUT THE SPEAKER**

Currently Professor in the CU Department of Chemistry, Dr. Walba also holds an appointment in the CU Department of Chemical and Biological Engineering and serves as the Associate Director of the [Soft Materials Research Center](#). After receiving a B. S. degree in Chemistry from the University of California at Berkeley (1971), he studied at the California Institute of Technology under the direction of Robert E. Ireland, receiving his Ph.D. on the total synthesis of natural products in 1975. After two years of postdoctoral research on host-guest chemistry with Donald J. Cram at UCLA, Walba started his academic career as Assistant Professor of Chemistry at CU Boulder in 1977, where he has worked since.

Professor Walba's teaching and research programs emphasize organic chemistry and, in particular, stereochemistry. For his work in teaching and research, he has been made a Fellow of the American Association for the Advancement of Science (1999), a Camille and Henry Dreyfus Teacher Scholar (1984-1986), and a Fellow of the A.P. Sloan Foundation (1982-1984). In addition, Dr. Walba was a co-founder and Vice President for Chemical Research (1984-1994), and member of the Board of Directors (1994-2001) of Displaytech, Inc.

**ABOUT THE PRESENTATION**

Liquid crystals (LCs) are organic materials exhibiting spontaneous symmetry-breaking in the liquid phase, producing structurally (and optically) anisotropic fluids. Since the discovery of LCs in the late 1880s, chirality has played a key role in the field. Not surprisingly, throughout most of the long history of the study of LCs, the formation of chiral LC phases required enantiomerically enriched chiral molecules – either the LC molecules themselves, or through the addition of chiral dopants.

However, beginning in 1997 the discovery of chiral LC phases formed by achiral or racemic molecules led to the characterization of several variations of spontaneous achiral symmetry-breaking in **fluids**. These represent fluid analogs of the achiral symmetry breaking occurring upon crystallization of sodium ammonium racemate (racemic tartaric acid) discovered by Pasteur 171 years ago.

LCs showing achiral symmetry breaking are most often (perhaps always) of the “bent-core” variety – the classic example being formation of chiral smectic (layered) phases from a class of resorcinol diesters possessing two “mesogenic” wings. In that system, four diastereomeric phases are formed, two d,l pairs, and two “meso” LC phases. Since the smectic layering is “long-range,” these materials can be considered crystalline in one dimension, though they show fluid rheology.

Then, in 2009, two variants of “dark conglomerates” were described. In these phases, the smectic layering is only short-range, with fluid order giving rise to chiral, optically isotropic fluids (dark between polarizer and analyzer) with optical rotatory power for visible light on the order of  $0.1^\circ/\mu\text{m}$ . Finally, in 2013 bent-core materials possessing fluid order in three dimensions were proven to exist. In these phases, known as “twist-bend nematics,” packing in the fluid phase favors a spontaneous twist, affording an optically anisotropic conglomerate lacking any layering.

These liquid manifestations of Pasteur’s crystal conglomerates will be described.



**CONGRATULATIONS TO WINNERS OF THE ACS SCIENCE AWARDS  
AT THE 2019 GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR  
MARCH 13, 2019**

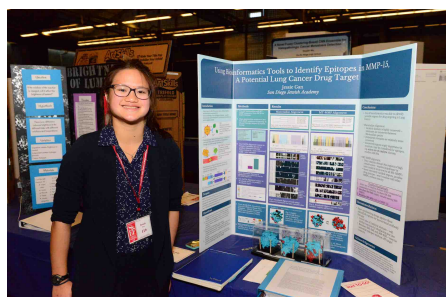
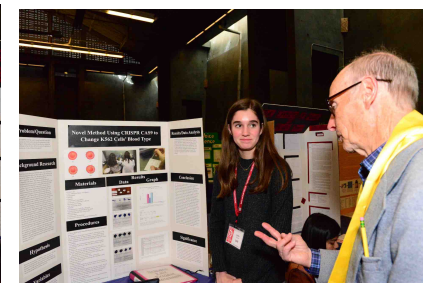
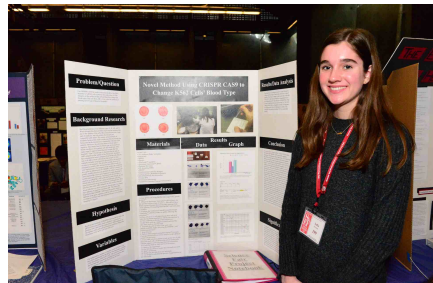
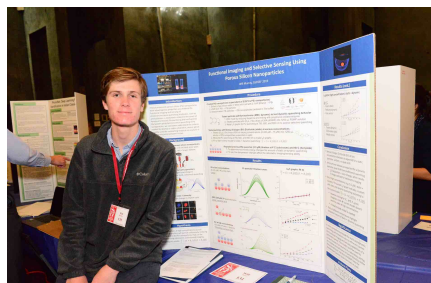
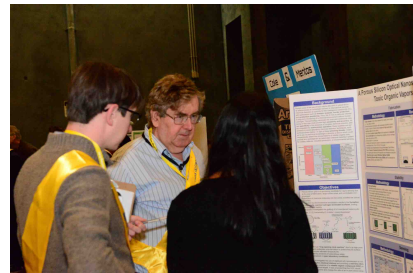
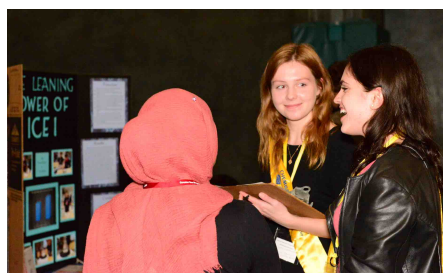
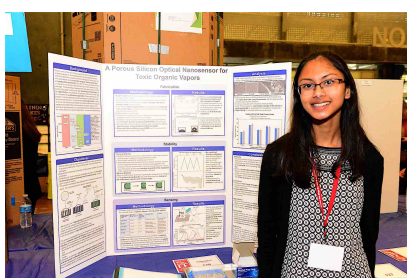
**Senior Division**

- First Place: First Place: Sofia Piccioni, Canyon Crest Academy, 11th Grade  
"Novel Method Using CRISPR CAS9 to Change K562 Cells' Blood Type"
- Second Place: Anushree Chaudhuri, Westview High School, 11th Grade  
"A Porous Silicon Optical Nanosensor for Toxic Organic Vapors"
- Third Place: Jessie Gan, San Diego Jewish Academy, 10th Grade  
"Using Bioinformatics Tools to Identify Epitopes in MMP-15, a Potential Lung Cancer Drug Target"

**Junior Division**

- First Place: Noorah Dhamim, Bright Horizon Academy, 8th Grade  
"A Bio Friendly Oil Spill Remover"
- Second Place: Malvyn Lai, Mount Everest Academy, 8th Grade  
"Catalyst Efficiency for Producing Energy Fuels by Water Splitting"
- Third Place: Timothy Marshburn, Coastal Academy, 8th Grade  
"Tricking the Brain Into "Smelling" Differently"

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.



I-r: Kevin Ryneerson, Nathaniel Cohan, Lydia Waterman, Ken Poggenburg, Jerry Albert, Emily Neal, Derek Hook, Jim Shih

Text: Ken Poggenburg, Photo Credit: Jim Shih

### ***CALL FOR NOMINATIONS ACS FELLOWS PROGRAM***

The American Chemical Society Fellows Program (ACSF) 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:

<https://www.acs.org/content/acs/en/funding-and-awards/fellows.html>

The nomination period for the 2018 Class of ACS Fellows opened on February 1, 2018. It ended at 11:59 PM on 1 April 2018. We expect that the 2019 nomination period will follow similar dates.

Use the link below for 2018 guidelines from the ACS National Offices:

[https://www.acs.org/content/dam/acsorg/funding/fellows/acs-fellows-program-guidelines\\_2018.pdf](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 and/or a designee from the executive committee familiar with the service and/or scientific work will be happy to write one or more of the required nominating letters. The awards committee will assist in guidance through the process. The overall purpose of the program is to recognize the top 1-2% of scientists-volunteers in the ACS community. (People who are generously compensated will not be considered.)

### ***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 High School Chemistry Classroom Grant**

Since 2008, over 700 high school chemistry teachers received ACS-Hach High School Chemistry Classroom Grants to support ideas that enhance classroom learning, foster student development, and reveal the wonders of chemistry. Teachers can request up to \$1,500 for their ideas.

**Application Deadline: April 14, 2019**

#### **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: ends 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: 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](mailto:hach@acs.org) -- Phone: (800) 227-5558 ext. 8178

### ***CALL FOR VOLUNTEERS***

***EarthFair 2019***

***Sunday, April 28, 2019***

***Balboa Park • 10am - 5pm***

ACS – San Diego Section volunteers will set up a table in the Children's Activity Area. This special area has crafts, games, face painting, storytelling, and hands-on activities for children of all ages. Activities are intended to educate, entertain and inspire youth, in the spirit of Earth Day.

Please contact **James Caldwell**, [jcaldwell@sandiegoacs.org](mailto:jcaldwell@sandiegoacs.org), to volunteer on **Sunday, April 28**. We need 3-4 persons for each of the 3-4 hour shifts on April 28<sup>th</sup>. Please support us and share your care for our earth, chemistry education, and the San Diego ACS!

### ***BE A CHEMISTRY AMBASSADOR!***

**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>

### ***VOLUNTEER WITH KIDS & CHEMISTRY***

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

### ***TREASURER NEEDED***

The Executive Committee of the San Diego Section of the American Chemical Society is looking for someone to assume the Treasurer's position starting January 2020. If you are interested, please contact David Wallace at [davidmw@san.rr.com](mailto:davidmw@san.rr.com).

### ***WORLD'S OLDEST PERIODIC TABLE CHART HAS BEEN FOUND IN SCOTLAND***

<https://www.msn.com/en-us/video/science/worlds-oldest-periodic-table-chart-has-been-found-in-scotland/vi-BBS0JPK>



# Family Picnic

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

**DATE:** Sunday, June 30<sup>th</sup>, 2019

**WHERE:** San Dieguito County Park, Solana Beach, at Lomas Santa Fe Drive and El Camino Real. Lomas Santa Fe exit off of I-5, one mile east to Highland Drive park entrance. Left onto Highland, immediate right into the park. Pay parking fee (\$3.00/car, free for seniors). At booth, proceed to Area #3 Parking. *Note: the San Diego County Fair will cause heavy traffic on I-5 near the Lomas Santa Fe 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 27<sup>th</sup>, by registering at <https://sdacs2019picnic.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.



***Volunteers Needed for Morning Setup!***

**Please contact James Caldwell to sign up:**  
tel. 815-262-9697  
e-mail: [jcaldwell@sandiegoacs.org](mailto:jcaldwell@sandiegoacs.org).



**SUMMARY OF THE SAN DIEGO SECTION  
EXECUTIVE COMMITTEE MEETING MINUTES  
March 7, 2019**

Treasurer's Report - February income: \$109 (from Feb monthly); expenses for PO box and mailing supplies, \$500 deposit to Tom Ham's for 50-60 Year Luncheon, \$792 deposit to Bernardo Winery; outstanding expenses - reimbursement for Expo Day (supplies and parking); request sent to National that local dues be collected with membership fees; Annual Report completed; Vanguard investment fund up from last month

Jan. Monthly Meeting - Desalination Plant Tour - Good tour and practical demonstration of chemistry

Nominations - Section needing a candidate for treasurer

Spring 2019 National Meeting - John Schindler designated to attend Council Meeting as substitute for Val Kuck

March Monthly - Introduction to Lilly Life Sciences Studio - Tues Mar. 26, space limits attendance to 80, speakers: Todd DeCollo & Jimmy Sastra- Lilly internal automation engineer / organic chemist, and external collaborating contractor, followed by tour of lab that is nearing completion

Mad Science - 10 of 20 programs scheduled, 1 scheduled for Fall; March 21 at Glen Murdock Elementary (La Mesa), providing assistance in locating supplies for Mad Science

SDSU Joint Seminar - Dr. Tong suggested David Walba (son of former SDSU professor that established UCSD-SDSU joint program), date TBD, probably mid-May

May Monthly Bernardo Winery - May 23, 25 min. tour and subsequent tasting session - wine and chocolate; cheese and fruit; propose \$20 registration fee to cover half of the cost, looking for sponsors to cover balance

Picnic - Site reserved, committee to meet soon

Earth Fair - April 28, 10 a.m. - 5 p.m., Balboa Park

50-60 Year Member Luncheon - Deposit sent

Greater San Diego Science and Engineering Fair - Mar. 13, can use more volunteer judges

MedChem Symposium - Speakers selected: Carlo Ballatore (UCSD), Valentina Molteni (GNF director of medicinal chemistry), Scott Rychnovsky (UCI), David Marx and Jeff Gustafson SDSU; venue: Institute of the Americas, UCSD

National ACS Meeting - Aug. in San Diego, needing volunteers to staff the Section's hosting booth

ACS / SABPA - Date TBD, aiming for Sept.

Distinguished Scientist Banquet - Committee to meet in the next two weeks to decide awardee; discussion of possible venues - Green Acres, Seasons 52 too expensive; will investigate availability and cost of USD dining room, Butcher Shop, Elijah's

Chem Expo - Oct 26, Miramar College

Year-end Wrap-Up - Dec. 3 Tues.

Section Demographics -Section membership down to 2,197

Next meeting: April, 11, 2019

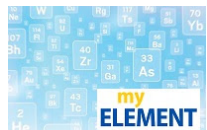
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**TELL US ABOUT YOUR FAVORITE ELEMENT**



What was the first element or element family that really inspired you? As part of the International Year of the Periodic Table (IYPT2019), we're asking ACS members to [tell us about their favorite element, or element family](#).

Here are some ideas to get you started: Is there an element that has been an ongoing source of fascination and inspiration? Was your undergraduate or graduate research focused on a particular element? Has there been an element that has been a constant through your education or working life? We look forward to hearing from you—thanks for [sharing your story!](#)

Image credit: [C&EN](#)



## Challenging the status quo in Strategic Patent Counseling.

Dentons combines legal, political, governmental, scientific and business experience to help you achieve your business objectives. We assist in patent prosecution and strategy for emerging and early stage companies. Our Intellectual Property and Technology team has considerable and broad experience in chemistry, pharmaceuticals, enzymology, biotechnology, immunology and other industry sectors.

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### 2019 ACS REGIONAL MEETINGS

Great Lakes (GLRM)	May 1 - 4	Lisle, IL
Middle Atlantic (MARM)	May 30 - June 1	UMBC, Baltimore
Central (CERM)	June 4 - 7	Midland, MI
Northwest (NORM)	June 16 - 19	Portland, OR
Northeast (NERM)	June 22 - 27	Saratoga Springs, NY
Midwest (MWRM)	October 16 - 18	Wichita, KS
Southeastern (SERMACS)	October 20 - 23	Savannah, GA
Southwest (SWRM)/RMRM	November 13 - 16	El Paso, TX



### 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](mailto:renate@sandiegoacs.org)

### Attention Companies! Do you hire student workers?

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

#### California State University, San Marcos

Jacqueline Trischman

[trischma@csusm.edu](mailto:trischma@csusm.edu)

760-750-4206

#### San Diego Miramar College

Linda Woods

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

(619) 388-7750

#### Point Loma Nazarene University

Sara Choung

[SaraChoung@PointLoma.edu](mailto:SaraChoung@PointLoma.edu)

619-849-2627

#### San Diego Mesa College

Dwayne Gergens

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

619-388-2609

#### San Diego Miramar College

Fred Garces

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

619-388-7493

#### Southwestern College, Chula Vista

David Hecht

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

619-421-6700x5461

#### University of California, San Diego

Stacey Brydges

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

858-246-0993

Thomas Bussey

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

858-822-6665

#### University of San Diego

Tammy Dwyer

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

619-260-4030



### YOUR AD HERE!

Your ad in the next issue of

**THE SAN DIEGO CHEMIST**

For information contact:

**Renate Valois** -

[renate@sandiegoacs.org](mailto:renate@sandiegoacs.org)

When the elements are arranged in vertical columns according to increasing atomic weight, so that the horizontal lines contain analogous elements again according to increasing atomic weight, an arrangement results from which several general conclusions may be drawn.

— Dmitry Ivanovich Mendeleev



**UPCOMING EVENTS**

**SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST**  
*Bristol Farms Café - Costa Verde Shopping Center –  
Genesee Avenue and Nobel Drive, University City  
Tuesday, April 16, 2019, at 9:30 AM*

\*\*\*\*\*

**EARTH DAY - EARTHFAIR 2019**  
*Balboa Park, San Diego, CA  
<http://www.earthdayweb.org/>  
Sunday, April 28, 2019*

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**SPONTANEOUS ACHIRAL SYMMETRY BREAKING IN ORGANIC FLUIDS**  
**PROFESSOR DAVID M. WALBA**  
*Department of Chemistry, University of Colorado at Boulder  
San Diego State University, Department of Chemistry and Biochemistry, GMCS 333  
5500 Campanile Drive, San Diego, CA 92182  
Monday, May 20, 2019*

\*\*\*\*\*

**CANCELLED: BERNARDO WINERY TASTING & TOUR**  
*13330 Paseo Del Verano Norte  
San Diego, CA 92128  
Thursday, May 23, 2019*

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**SUMMER PICNIC**  
*San Dieguito County Park, Solana Beach  
Sunday, June 30, 2019*

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**FIFTY-/SIXTY-YEAR MEMBER LUNCHEON**  
*Tom Ham's Lighthouse, 2150 Harbor Island Drive, San Diego  
Thursday, July 11, 2019*

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**22<sup>nd</sup> 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 19, 2019*

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**258th ACS NATIONAL MEETING & EXPOSITION**  
**San Diego, California**  
*August 25-29, 2019*

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**CHEM EXPO**  
*Marvelous Metals  
San Diego Miramar College, 10440 Black Mountain Road, San Diego  
10440 Black Mountain Rd, San Diego  
Saturday, October 26, 2019*

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**HOLIDAY PARTY**  
*Sufi Mediterranean Cuisine  
5915 Balboa Avenue, San Diego, CA 92111  
Tuesday, December 3, 2019*

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

Patricia Aguilar Calvo  
Jessi Beadnell  
Jeffrey Bender  
Samuel Brown  
Joe Dagostino  
Emre Discekici  
Ashley Douthitt  
Alex Gillespie  
Jennifer Griffin  
Vahid Karimkhani  
Jonathan Kukowski  
Alexey Kuznetsov  
Douglas Lappi  
Jie Li  
Brock Mitts  
George Monasterio

Sylvia Norman  
Veera Panova  
Crystal Paulus  
Marion Peralta  
Maria Ramirez  
Sean Reed  
Christopher Rupprecht  
Sarah Schwab  
Jesika Scort  
Deborah Smith  
Nathan Smith  
Karen Watson  
Ann Wilhite  
Ann Wilhite  
Nathaniel Wood-Cohan  
Brian Zedalis

**2019 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS  
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY**

**EXECUTIVE COMMITTEE**

<i>Co-Chair</i>	Jennifer Barber-Singh, BioFluidica, <a href="mailto:ibsingh@sandiegoacs.org">ibsingh@sandiegoacs.org</a>	(2019)	858-869-7084
<i>Co-Chair</i>	David Wallace, Samumed, LLC, <a href="mailto:davidmw@san.rr.com">davidmw@san.rr.com</a>	(2019)	858-638-1866
<i>Chair-Elect</i>	James Caldwell, Accelagen, Inc., <a href="mailto:jcaldwell@sandiegoacs.org">jcaldwell@sandiegoacs.org</a>	(2019)	815-262-9697
<i>Past-Chair</i>	Jennifer Barber-Singh, BioFluidica, <a href="mailto:ibsingh@sandiegoacs.org">ibsingh@sandiegoacs.org</a>	(2019)	858-869-7084
<i>Secretary</i>	William Tolley, Seacoast Science, Inc., <a href="mailto:b_tolley@juno.com">b_tolley@juno.com</a>	(2019)	858-780-0978
<i>Treasurer</i>	Graeme Freestone, Ionis Pharmaceuticals, Inc., <a href="mailto:gfreestone@sandiegoacs.org">gfreestone@sandiegoacs.org</a>	(2019)	858-539-6363

**Councilors**

Thomas R. Beattie	(2021)	858-587-1210
Hui Cai, WuXi AppTec	(2019)	858-361-8838
Desiree Grubisha, Halozyne Therapeutics	(2021)	858-254-5497
Valerie Kuck	(2020)	973-744-5510
Ken Poggenburg	(2019)	760-635-2573
David Wallace, Samumed, LLC	(2021)	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, Pratt Pharma Consulting LLC	(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**

Paul Bruinsma, HP Inc.	(2020)	858-655-8322
James O'Brien	(2020)	858-336-0654
Bill Szabo	(2019)	858-550-0306
Jackie Trischman, CSUSM	(2021)	858-414-3323
Joann Um, Southwestern College	(2019)	510-823-8637

**STANDING & SPECIAL COMMITTEES**

**Awards Nomination Committee**

Valerie Kuck (Co-Chair)	973-744-5510
John Schindler (Co-Chair)	858-353-3943

**ChemExpo**

Julann Miller (Chair), Waters Corporation	800-252-4752 x6802
Paul Bruinsma, HP Inc.	858-655-8322

**Communications Committee**

Paul Bruinsma, (Chair), HP Inc.	858-655-8322
Surya K. De, Plex Pharmaceuticals, Inc.	858-337-4961
Desiree Grubisha, Halozyne Therapeutics	858-254-5497
Ken Poggenburg	760-635-2573
Renate Valois (Newsletter Editor)	619-692-0638
David Wallace, Samumed, LLC	858-638-1866

**Distinguished Scientist Awards Nomination Committee**

Thomas R. Beattie (Chair)	858-587-1210
Tammy Dwyer USD	619-260-4030
Barbara Sawrey	858-729-0689
David Wallace, Samumed, LLC	858-204-5412

**Education Committee**

Joann Um, (Chair) Southwestern College	510-823-8637
Valerie Kuck	973-744-5510
Joan Schellinger, USD	619-260-7960

**EarthFair**

James Caldwell, Accelagen, Inc.	815-262-9697
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**Finance Committee**

Bill Szabo (Chair)	858-550-0306
Tom Beattie	858-587-1210
John Schindler	858-353-3943

**Fundraising Committee**

James Caldwell, Accelagen, Inc	815-262-9697
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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**

Ben Pratt (Co-Chair), Pratt Pharma Consulting, LLC	858-945-7893
Mark Tichenor (Co-Chair), Janssen Pharmaceuticals, Inc.	858-334-8914
David Wallace (Co-Chair), Samumed, LLC	858-638-1866

**Membership Committee**

**OPEN**

**Nominations Committee**

**OPEN**

**Picnic Committee**

James Caldwell (Chair) Accelagen, Inc.	815-262-9697
Jim Shih, Eli Lilly & Co.	626-826-3561

**Professional Development Committee**

Valerie Kuck	973-744-5510
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**Public Relations Committee**

John Schindler	858-353-3943
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**Senior 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**

Valerie Kuck	973-744-5510
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**Younger Chemists Committee**

**OPEN**

**Voice Mail – San Diego Section**

619-687-5570