

# The San Diego Chemist

American Chemical Society  
Volume 31, Number 2

San Diego Section  
February 2019

## *The "Guy" who Invented Kevlar and Other Stories: Women Chemists to the Forefront*

**Professor Mary Virginia Orna**  
*College of New Rochelle*

**DATE:** Tuesday, February 5, 2019  
**TIME:** 7:00 PM  
**PLACE:** Indian Joe Brewing, 2123 Industrial Court, Vista, CA 92081  
**RSVP:** <https://mvorna.eventbrite.com/>



**ABOUT THE SPEAKER:** Mary Virginia Orna is Professor of Chemistry at The College of New Rochelle. She is an ACS Fellow (2010) and a 1984 recipient of the Chemical Manufacturing Association's Catalyst Award for excellence in college chemistry teaching, the 1989 CASE (Council for the Advancement and Support of Education) New York State Professor of the Year and National Gold Medalist Award, a recipient of the 1989 Merck Innovation Award, the 1996 Western Connecticut ACS Section's Visiting Scientist Award and the 1996 recipient of the James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. She received the American Chemical Society's 1999 George C. Pimentel Award in Chemical Education, the 2008 Henry Hill Award, and the 2009 ACS Award for Volunteer Service. She has presented over a dozen plenary lectures and named lectureships. She was a Fulbright Fellow in Israel (1994-95) where she lectured at The Hebrew University. Professor Orna was a major contributor to the ACS symposium series on The Posthumous Nobel Prize in Chemistry, Volume 2, Ladies in Waiting for the Nobel Prize (2018).

**ABOUT THE PRESENTATION:** This talk will highlight the extraordinary contributions that women chemists have made to our health and well-being through such inventions as chemotherapeutic agents, Kevlar, Scotchgard, Permanent Press fabrics, and easy self-diagnosis for diabetes. All of these women have been inducted into the National Inventors' Hall of Fame, an institution that celebrates the creative and entrepreneurial spirit of great inventors by showcasing exhibits and presentations that allow the public to experience the excitement of discovery, creativity and imagination.

**PRIOR TO THE LECTURE:** At 6:00PM there will be an inaugural meeting of the SD Mentor Group. All women chemists and chemical engineers interested in mentoring junior and senior chemistry/biochemistry majors are urged to attend this meeting. Those women individuals interested in joining this effort who are unable to attend the meeting should contact Jackie Trischman ([trischma@csusm.edu](mailto:trischma@csusm.edu)).

## *Uncovering the Secrets of Ancient and Medieval Artists*

**DATE:** Wednesday, February 6, 2019  
**TIME:** 4:00 PM  
**PLACE:** California State University San Marcos, University Hall 100  
Enter the campus on Craven Drive, follow the signs to Lot F to purchase a parking permit, then walk to University Hall 100  
**RSVP:** Jackie Trischman at [trischma@csusm.edu](mailto:trischma@csusm.edu)

**ABOUT THE PRESENTATION:** Chemical detective work in the form of modern chemical methods can be used to examine both ancient and medieval artifacts. Professor Orna will discuss the ways these probes are used in: clarifying the techniques used in making these objects, determining their content, and dating their origins. The variety of methods used in the examination of such materials as ancient textiles, pigments in medieval manuscripts, medieval stained glass, Middle Eastern obsidian and pottery, and 20th century art forgeries will be discussed. Although those methods give great insight into the objects in question, there are limits to such technology; the limitations of those techniques will be presented.

### CHAIR NOTES

Dear ACS Members,

Hope everyone's 2019 is off to a great start! We had our first Executive Committee Meeting of 2019 on Thursday, January 10<sup>th</sup>. We had a good turnout to discuss upcoming events and committee positions for this year, as well as outreach activities like Project SEED, a summer research program for underprivileged students in our community, Mad Science programs and new opportunities.

Our January event was rescheduled due to plant maintenance. You can find more details using the following link:

<https://desalination2.eventbrite.com>

While the February event is sold out, we will work to get more tours scheduled in the coming months – let us know if you are interested. We also have a couple of upcoming seminars in early February that are being co-hosted with CSUSM: **Mary Virginia Orna** is Professor of Chemistry at The College of New Rochelle. She is an ACS Fellow (2010) and a 1984 recipient of the Chemical Manufacturing Association's Catalyst Award for excellence in college chemistry teaching. She will be giving a seminar on women who were overlooked for Nobel Prizes for their incredible contributions to our world on Tuesday, February 5<sup>th</sup>, and a seminar on Wednesday, February 6<sup>th</sup>. More information can be found at:

<https://mvorna.eventbrite.com>

Here are some upcoming, community-wide, large-scale events!  
San Diego Festival of Science & Engineering's EXPO DAY at PETCO Park, March 2, 2019

Greater San Diego Science & Engineering Fair at Balboa Park, March 12-17, 2019

ACS Spring National Meeting & Exposition in Orlando, March 31- April 4, 2019

San Diego Earth Fair, Balboa Park, April 28, 2019

Our next Executive Committee Meeting will take place on Thursday, February 7<sup>th</sup>, at 6pm. I invite all members who wish to become more involved to please join us. Bring your enthusiasm, your ideas, and your unique talents to help make 2019 an outstanding year for the San Diego Local Section of the ACS!

Jennifer Barber-Singh, 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-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

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2" x 3"	\$ 75	\$ 68	\$ 58
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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	February	7
Thursday	March	7
Thursday	April	4
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**

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

### **AMERICAN CHEMICAL SOCIETY SAN DIEGO SECTION EDUCATION COMMITTEE**

#### **LOOKING FOR VOLUNTEERS**

We are hosting the Chemistry Olympiad and the preliminary screening is scheduled on **March 2 and 3 (Sat. and Sun.) from 9-11 am at Shiley Center for Sci and Tech, University of San Diego.** If you would be interested in proctoring on either days and/or have any questions, please contact: [jschellinger@sandiego.edu](mailto:jschellinger@sandiego.edu). We specifically ask volunteers to arrive ~ 30 minutes to help set-up, register students and proctor the 2-hour exam.

### **CHEMISTRY JUDGES NEEDED**

Judging by professional societies at the 65<sup>th</sup> Annual Greater San Diego Science & Engineering Fair will take place on **Wednesday, March 13, at 12:15 pm** in Balboa Park. If anyone is able to help choose exhibits for our Section's chemistry awards or wants more information, please contact **Ken Poggenburg** at [jkp135@att.net](mailto:jkp135@att.net).

### **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!

### **THIS EVENT WAS CANCELED IN JANUARY**

#### **THE CLAUDE "BUD" LEWIS CARLSBAD DESALINATION PLANT (Poseidon Water)**

The January event was cancelled due to plant maintenance. The ACS event tour was rescheduled for **Monday, February 18, 2019, at 10:45**, 4600 Carlsbad Blvd, Carlsbad, CA 92008.

January ticket holders please confirm attendance for new tour date to [jcaldwell@sandiegoacs.org](mailto:jcaldwell@sandiegoacs.org).

**SUMMARY OF THE SAN DIEGO SECTION  
EXECUTIVE COMMITTEE MEETING MINUTES  
January 10, 2019**

Treasurer's Report – Last year: \$550 deficit; projected budget income was \$92K, actually received \$89K; Charitable Trust issues resolved

Proposed 2019 Budget – Councilor travel for the year projected to be less than usual since the Fall Meeting will be in San Diego; sponsorships have been consistently ~\$21K for past several years, Justification for Proposed Budget: no event organizers have proposed decreasing allocations for any activities; ChemExpo underspent allocation last year so keeping that the same, Distinguished Scientist; Earth Day, 50-60 Luncheon, Holiday / Year-End Wrap-Up kept consistent, Mad Science allocation was previously approved by ExComm, MedChem requested slight increase; Project SEED allocation remains the same; website maintenance increased to \$2K reflecting vote of ExComm.

**Action:** Increase projected income to \$25K and add dividends to incomes and present adjusted budget via e-mail

January Monthly Meeting Desalination Plant Tour – Date changed by venue to Feb 18; suggestion to add social hour following tour

February Monthly Meeting – Received grant for \$1,500 to bring Mary Virginia Orna to San Diego to start mentoring program for female chemistry / biochemistry students; she will make presentations Feb. 5, 6 p.m. mixer, talk at 6:45 p.m. at Indian Joes Brewery in Vista (owned by female), talk on women who should have received Nobel; Feb. 6 speaking at CSUSM

March Monthly Meeting – Tour of Lilly Life Science automated synthesis, light food beforehand, 30 min preview, tours in groups of ~20, three Lilly employees to lead groups

April Monthly Meeting – In conjunction with SDSU but may get pushed to May due to conflicts regarding venue

May Monthly Meeting – Bernardo Winery

Picnic – June 23

50-60 Year Luncheon – Jul 9 or 11; need to confirm date with Tom Ham's

Med Chem Symposium – 22<sup>nd</sup> Annual symposium, July 19

National Meeting in San Diego – In August; will need extensive help

8<sup>th</sup> Annual SABPA / SDACS Meeting – Sept.; starting organizing

Distinguished Scientist Banquet – October, committee was appointed previously to identify venue

ChemExpo – Miramar College, Oct. 26

Law Seminars – Organizing law events including cannabis seminar

Next meeting: Feb. 7, 2019

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Welcome to ACS Webinars, your source for online live and on-demand content, created by the American Chemical Society.

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For more information and upcoming Webinars please see: <https://www.acs.o/content/acs/en/acs-webinars.html>

**Call for Abstracts – Fall 2019 ACS National Meeting & Expo**



ACS is now accepting abstracts for oral and poster presentations at the Fall 2019 ACS National Meeting & Exposition, to be held in San Diego, California, August 25–29. The meeting theme, Chemistry & Water, promises to bring together chemists across disciplines to discuss impacts from, and to, water in various industries, sustainability, and more. [Visit the meeting website](#) to view topics by programming division.

Submission deadlines begin **March 18** and vary by program area. Learn more and submit your abstract now!

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## MEETINGS

### WORKSHOPS

#### UPCOMING WORKSHOPS

#### CATALYST CONVERSATIONS FOR UNDERGRADUATE EDUCATORS

#### CATALYST CONVERSATIONS FOR UNDERGRADUATE EDUCATORS PROGRAM

## CATALYST CONVERSATIONS FOR UNDERGRADUATE EDUCATORS PROGRAM

The ASBMB Student Chapters presents

### Catalyst Conversations for Undergraduate Educators

Sunday, February 24, 2019

La Sierra University

Riverside, California

Facilitators: Marvin Payne, Joe Provost, Ellis Bell, Jessica Bell and Christopher Myer

9:00 AM – 9:30 AM	Registration/Light Breakfast
9:30 AM – 9:45 AM	Introductions and Overview
9:45 AM – 11:00 AM	<b>Session 1: Research at a PUI: Challenges, Opportunities and Funding</b> Session Leader: Jessica Bell, University of San Diego
11:15 – 12:15 PM	<b>Session 2: BMB For a New Generation: Concepts and Assessment</b> Session Leader: Marvin Payne, La Sierra University
12:15 PM – 1:00 PM	<b>Working Lunch: Developing NSF funding for your Undergraduate Research</b> Session Leader: Christopher Meyer, California State University, Fresno
1:00 PM – 2:00 PM	<b>Session 3: CURE: Theory and Implementation</b> Session Leaders: Ellis Bell and Joe Provost, University of San Diego
2:00 PM – 2:15 PM	Wrap-Up and Survey Completion.
2:15 PM – 2:30 PM	Open Conversation



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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?

### EMPLOYMENT IS THE ANSWER!

#### 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

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### THE SAN DIEGO CHEMIST

For information contact:

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

### **UPCOMING EVENTS**

#### **THE "GUY" WHO INVENTED KEVLAR AND OTHER STORIES: WOMEN CHEMISTS TO THE FOREFRONT**

**Professor Mary Virginia Orna**  
**Indian Joe Brewing, 2123 Industrial Ct. Vista, CA 92081**  
**Tuesday, February 5, 2019, at 7:00 PM**

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#### **UNCOVERING THE SECRETS OF ANCIENT AND MEDIEVAL ARTISTS**

**Professor Mary Virginia Orna**  
**California State University San Marcos, University Hall 100**  
**Wednesday February 6, 2019, at 4:00 PM**

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#### **Rescheduled Event: THE CLAUDE "BUD" LEWIS CARLSBAD DESALINATION PLANT**

**4600 Carlsbad Blvd, Carlsbad, CA 92008**  
**Monday, February 18, 2019, at 10:45 AM**

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#### **SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING**

**EXPO DAY at PETCO Park**  
**Saturday, March 2, 2019**  
**<https://www.lovestemsd.org/>**

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#### **THE 65th ANNUAL GREATER SAN DIEGO SCIENCE AND ENGINEERING FAIR**

**Balboa Park Activity Center (2145 Park Blvd.)**  
**For information please see <http://www.gsdsef.org/>**  
**March 12 - 17, 2019**

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#### **257th ACS NATIONAL MEETING & EXPOSITION**

**Orlando, Florida**  
**March 31-April 4, 2019**

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#### **EARTH DAY - EARTHFAIR 2019**

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

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#### **SUMMER PICNIC**

**San Dieguito County Park, Solana Beach**  
**Sunday, June 30, 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**

Maximilian Bernbeck  
Craig Coburn  
Christie Hoover  
Jong Kim  
Johnnie Lyman  
Sandy Ma  
Harrison Palmer  
Donald Rogness  
Nicholas Watkins  
Kayla Woodward  
Jie Xia  
Xiaolin Zhu

**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
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