

The San Diego Chemist

American Chemical Society
Volume 31, Number 1

San Diego Section
January 2019

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

DATE: Monday, January 21, 2019

TIME: 10:30 AM

PLACE: 4600 Carlsbad Blvd
Carlsbad, CA 92008

RSVP: <https://desalination2.eventbrite.com/>



ABOUT THE FACILITY:

San Diego County is a semiarid region with limited local water resources, relatively small aquifers and no major rivers. In recent decades, the County has relied on imported water from Northern California and the Colorado River to meet more than 80 percent of its water needs. The Claude "Bud" Lewis Carlsbad Desalination Plant is an important component of the San Diego County Water Authority's long-term strategy to improve the region's water supply reliability by diversifying its supply resources. This strategy has allowed the region to reduce its dependence on imported water sources that are vulnerable to droughts, natural disasters and regulatory restrictions. Today, the plant accounts for about one-third of all water generated in the County. Each day, the plant delivers nearly 50 million gallons of fresh, desalinated water to San Diego County – enough to serve approximately 400,000 people.

ABOUT THE TOUR:

We invite you to visit the largest, most technically advanced and environmentally sound desalination plant in the western hemisphere! You will have the opportunity to observe the state-of-the-art process of turning water from the Pacific Ocean into high quality drinking water that is now serving nearly a half a million San Diegans. You will also be one of the first individuals to sample this new water supply right from source. **Our tour accommodates 20 guests.** To reserve your spot, please RSVP at the Eventbrite page shown above. All tour participants must be 18 years of age or older. Tours may be cancelled at any time due to weather or safety conditions. All tour participants need to have a photo ID with them and need to be wearing long pants and closed-toed shoes with no high heels.

CHAIR NOTES

Dear ACS Members,

I'd like to start by wishing all of you a very happy, safe, and prosperous New Year. I would also like to thank all of our Local Section members who have participated in, or helped with events over the past year. I also thank Dr. Jennifer Barber-Singh, the past-chair, for leading us in 2018.

As was announced at our year-end meeting and holiday party, our Chair-elect for 2018 resigned suddenly a few months ago leaving us little time to fill the position of the 2019 Chair. So that the Section is not left without a Chair, Dr. Barber-Singh has graciously volunteered to continue providing leadership into 2019 along with me as Co-Chairs. This means the Section will be led in 2019 by two past-chairs (2018 and 2008).

One of the 2019 Local Section goals is to fill the important positions of committee chairs for both Younger Chemist and Fundraising Committees. The Younger Chemist Committee is critical for providing educational and networking events to undergraduate, graduate, post-doc, and working chemists under the age of 35. The Fundraising Committee is critical for helping the Section raise sponsorships to support both individual events as well as the Section as a whole. We welcome volunteers willing to take on the challenges of chairing one of these committees.

As a reminder, our next event will be on Monday, January 21st at the Claude "Bud" Lewis Carlsbad Desalination Plant in Carlsbad. Please register at <https://desalination2.eventbrite.com/>

Also, there will be a change in our January Executive Board meeting. It was moved to Thursday, January 10th. We hope to see new faces at our first meeting.

Again, we look forward to working with you and we welcome your suggestions, comments, ideas and, most importantly, your volunteer efforts.

David Wallace, Co-Chair
San Diego Section of the American Chemical Society
E-mail: davidmw@san.rr.com
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 2019 Chair, **Co-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

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 |
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| 2" x 3" | \$ 75 | \$ 68 | \$ 58 |
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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.

SECTION E-MAIL LISTSERVER!

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

To subscribe to our moderated listserver:

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

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

Executive Committee Meeting Dates 2019

6:00 – 8:00 pm

| | | |
|-----------------|------------------|-----------|
| Thursday | January | 10 |
| 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



2019: INTERNATIONAL YEAR OF THE PERIODIC TABLE
The United Nations Educational, Scientific, and Cultural Organization (UNESCO) has designated 2019 as the "International Year of The Periodic Table of Chemical Elements," or IYPT2019. 2019 marks the 150th anniversary of the creation of the Periodic Table by Dmitry Mendeleev. Visit www.acs.org/iyppt for more information.

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

ACS-HACH PROGRAMS

ACS-Hach Professional Development Grant

Funds professional development experiences for secondary chemistry teachers. Award Amount: Up to \$1,500

Application Period: ends January 4th

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

CHEMISTRY JUDGES NEEDED

Judging by professional societies at the 65th Annual Greater San Diego Science & Engineering Fair will take place on **Wednesday, March 13th, 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.

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 to volunteer on **Sunday, April 28, 2019**. We need 3-4 persons for each of the 3-4 hour shifts on April 28th. Please support us and share your care for our earth, chemistry education, and the San Diego ACS!

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 2019 Class of ACS Fellows opens on February 1, 2019. It will end at 11:59 PM 1 April 2019.

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 for assistance.

ANNUAL MEETING AND HOLIDAY PARTY

Our last meeting in 2018, the annual Holiday Party, on December 4th, was held at Sufi Mediterranean Cuisine on Balboa Avenue.

Jennifer Barber-Singh, 2018 Chair, gave a summary of our year's activities. **Jennifer** will be Co-Chair in 2019 and **David Wallace**, who will also be Co-Chair and **Tom Beattie** announced some upcoming events for 2019. We are looking to an interesting year.



David Wallace, Jennifer Barber-Singh



Jernnifer and Tom Beattie



Text: Renate Valois
Photo Credit: Jim Shih

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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 |



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

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

Please join us weekly Thursdays at 2pm ET.

For more information and upcoming Webinars please see:

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

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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

San Diego Miramar College

Linda Woods

lwoods@sdccd.edu

(619) 388-7750

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

Southwestern College, Chula Vista

David Hecht

dhecht@swccd.edu

619-421-6700x5461

University of California, San Diego

Stacey Brydges

sbrydges@ucsd.edu

858-246-0993

Thomas Bussey

tbussey@ucsd.edu

858-822-6665

University of San Diego

Tammy Dwyer

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

UPCOMING EVENTS

SENIORS/RETIREES/CONSULTANTS/ETC. BREAKFAST

**Bristol Farms Café - Costa Verde Shopping Center –
Genesee Avenue and Nobel Drive, University City
Tuesday, January 15, 2019, at 9:30 AM**

THE CLAUDE "BUD" LEWIS CARLSBAD DESALINATION PLANT

**4600 Carlsbad Blvd, Carlsbad, CA 92008
Monday, January 21, 2019**

SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING

EXPO DAY at PETCO Park

Saturday, March 2, 2019

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

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

257th ACS NATIONAL MEETING & EXPOSITION

Orlando, Florida

March 31-April 4, 2019

EARTH DAY - EARTHFAIR 2019

Balboa Park, San Diego, CA

<http://www.earthdayweb.org/>

Sunday, April 28, 2019

SUMMER PICNIC

San Dieguito County Park, Solana Beach

Sunday, June 23, 2019

258th ACS NATIONAL MEETING & EXPOSITION

San Diego, California

August 25-29, 2019

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

Amanda Awadis
Alto Benedicto
Ron Bowditch
Andrew Craft
Shirley Demer
L. Donaruma
Jennifer Dorsey
George Geisendorfer
Michael Gernon
Sean Gilmore
Javier Gonzalez
Brian Hanos
Julie Hernandez
Ellen Johnson

Min Lee
Dolores Leser
Lauren Leyva
Yinan Lin
Hannah Nguyen
Eduardo Niebla
Reza Rahimi
Kevin Rodriguez
Marion Schelling
Carly Schnoebelen
Shelby Stavretis
Haotian Sun
Ashley Tamura
Alena Vasquez

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

EXECUTIVE COMMITTEE

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

Finance Committee

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

Fundraising Committee

OPEN

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 |
|---------------------------------|--------------|

Mad Science Program

| | |
|-------------------|--------------|
| Thomas R. Beattie | 858-587-1210 |
|-------------------|--------------|

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 |
|--------------|--------------|

Public Relations Committee

| | |
|----------------|--------------|
| John Schindler | 858-353-3943 |
|----------------|--------------|

Senior Chemists Committee

| | |
|------------------------|--------------|
| Ken Poggenburg (Chair) | 760-635-2573 |
|------------------------|--------------|

Seniors Breakfasts

| | |
|-------------------|--------------|
| Thomas R. Beattie | 858-587-1210 |
|-------------------|--------------|

Women Chemists Committee

| | |
|--------------|--------------|
| Valerie Kuck | 973-744-5510 |
|--------------|--------------|

Younger Chemists Committee

OPEN

Voice Mail – San Diego Section

619-687-5570