ACS Chemistry for Life®

The San Diego Chemist

American Chemical Society
Volume 32, Number 8

San Diego Section
August 2020

*It's summertime but the livin' ain't easy!**

We wish you and yours a safe, healthy summer. Stay well!

*Apologies to George Gershwin.

CHAIR NOTES

Dear ACS Community,

Participation in ACS volunteer opportunities has given me great personal satisfaction and a sense of belonging to the greater scientific community. I have given my time within our Section to ChemExpo, our National Chemistry week celebration, Earth Fair at Balboa Park's for Chemist's Celebrate Earth Week, at ACS National conferences tabling for our Local Section, cooking at our annual family picnic, and giving a helping hand at monthly member meetings. Not to mention volunteering to be chair of the Local Section which came complete with a weekend trip to Atlanta for leadership training. The members of the San Diego Local Section Executive Committee are a great bunch of people who generously give their time, knowledge and wisdom to newcomers and old-timers alike! Cultivating personal relationships within the ACS membership has enhanced my life and my career opportunities!

I encourage you to participate in our Local Section, too. Volunteer today! Your Local Section needs you! Many opportunities exist. We have openings for leadership positions, i.e., annual elections are just around the corner in November, submit your bio now for candidacy! We also are hoping for Membership Committee, Nominations Committee, and Women's Chemists Committee volunteers. We have information readily available and support from our Executive Committee to help these groups succeed. If you have ideas for online meetings or events, please do not hesitate to contact me.

Our next Executive Committee Meeting will take place on Thursday, August 6th, 6 PM, online. In this era of COVID-19 our meetings are now on the web platform "Zoom". I can give you basic introductory training to get you participating. All you need is a smartphone or computer, microphone, speakers, and internet service! As always, all members (this means you) who wish to become more involved or experienced with our Local Section are invited to attend. You will need to contact me at jcaldwell@sandiegoacs.org for an invite. Please RSVP so I may add you to the list of attendees.

Thank you,
James Caldwell, Ph.D., 2020 Chair
San Diego Section of the American Chemical Society
Email: jcaldwell@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 2020 Chair, **James Caldwell**, at jcaldwell@sandiegoacs.org. Once approved, James 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 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***
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 Dates 2020

6:00 – 8:00 pm

Zoom Meeting	***Thursday***	***August***	***6***
	Thursday	***September***	***3***
	Thursday	***October***	***1***
	Thursday	***November***	***5***

We will be using
"Zoom meetings"
for the Executive Committee Meetings

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:

James Caldwell
Chair, Fundraising Committee
815-262-9697
jcaldwell@sandiegoacs.org

WuXi AppTec

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 in Balboa Park annually for the past 27 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.

IT IS NOT TOO EARLY----

---- TO THINK ABOUT THE
ANNUAL SAN DIEGO ACS LOCAL SECTION ELECTIONS 2019

Nominations for Section offices are now in order. Per our Bylaws, the current Chair-Elect will assume the Chair, but other positions are open for election, including

Chair-Elect • Secretary • Treasurer • 1 Councilor
3 Alternate Councilors • 4 Members-at-Large

Councilors, Alternate Councilors, and Members-at-Large serve for three years, and all incumbents may succeed themselves. We encourage the active participation of our members! If you have an interest in becoming involved in the ACS-San Diego Section and want to make a self-nomination as a candidate for an elected position, please contact: **James Caldwell** at jcaldwell@sandiegoacs.org

Send your bios to **Renate Valois** at renate@sandiegoacs.org

NOTE: VOTING WILL AGAIN BE DONE ELECTRONICALLY

Voting will be done electronically using your email address on record for the ACS. If you wish to receive a paper ballot instead, please call or e-mail **Jackie Trischman**, Election Coordinator, at **858-414-3323 or *trischma@csusm.edu* by Monday, November 2,** and leave your name and mailing address. You will be mailed a paper ballot.

If you do not request a paper ballot, you will receive instructions on how to vote via email. Please be sure your email address on file with the ACS is current! To update your email address with the ACS, use *www.chemistry.org*

POSTPONED

HPLC 2020 IN SAN DIEGO

Due to the extraordinary circumstances we have all found ourselves in surrounding the coronavirus (COVID-19) pandemic, we are genuinely disappointed to announce that we must postpone the HPLC conference based on CDC guidance and shelter-in-place orders. As the health and safety of all of our participants remains our primary concern, the HPLC conference is postponed and will take place at the same location on **June 18-23, 2022,** at the Town and Country hotel and conference center in San Diego, CA.

LOOKING FOR VOLUNTEERS

NOS 2021 American Chemical Society Division of Organic Chemistry

The Executive Committee of the Division of Organic Chemistry of the American Chemical Society and the Department of Chemistry at the University of California, San Diego, invite you to attend the 47th National Organic Chemistry Symposium. This biennial event will be held from Sunday, June 27, to Thursday, July 1, 2021, at UCSD.
For more information please see https://nationalorganicsymposium.org/.

For volunteers please see https://nationalorganicsymposium.org/organizers/. Volunteer opportunities include chairing sessions during the plenary talks, judging the poster sessions, and running registration tables and social events.

https://www.acs.org/content/acs/en.html

https://www.acs.org/content/acs/en/education/students/highschool/chemistryclubs/activities/chemistry-games.html

https://www.iflscience.com/chemistry/unfinished-20-fun-science-experiments-you-can-do-home/

AN EXPERIMENT SUGGESTED BY A PH.D. STUDENT MAY REWRITE CHEMISTRY TEXTBOOKS

https://phys.org/news/2020-06-phd-student-rewrite-chemistry-textbooks.html

SUMMARY OF THE SAN DIEGO ACS SECTION
EXECUTIVE COMMITTEE TELECONFERENCE
July 9, 2020

Treasurer's Report – Recent expenses: $99 to Mad Science for May 14 show, another $99 payment is due, $1,000 to JOURNYs to support two recent issues, ~$200 for Chemistry Olympiad supplies, $800 in awards to students qualifying in Chemistry Olympiad, $400 for Newsletter; $546 for Constant Contact internet service, Finance Committee needing to determine what to do with money from matured CD

San Diego Earth Fair – Event has been canceled and Section has asked for deposit to be refunded

ChemExpo – In-person activity is canceled, format for this year's event currently is undecided

Nominations – Members wanting to run for a Section office need to submit biographies to Renate Valois, Newsletter editor

Distinguished Scientist Award – Committee leaning toward foregoing award

Mad Science Presentation 5/29 – Three ExComm attendees, and comments have been passed along to Mad Science, presenter was "Germanium Joe", 50 attendees confirmed, Mad Science had 150 reservations, one parent responded highly positively regarding presentation

National Organic Symposium – National organizing committee looking for volunteers to chair search for plenary talks, judging posters, assisting in registration, arranging extracurricular activities, passing microphone during Q&A; welcoming help from anyone in Section including students, scheduled for June 27, 2021

Local Section Innovative Project Grant Application – Application written, but needs a support letter

George Fujimoto 100th birthday – Long-time Section member turned 100 on July 1. Bill Szabo spearheaded the effort to honor George, which included a large framed congratulatory letter from Thomas Connelley, Jr., CEO of ACS. Fujimoto-Belleau reaction named for his discovery.

Next meeting: Aug. 6

ACS-Hach Programs

ACS-Hach Professional Development Grant
Funds professional development experiences for secondary chemistry teachers.
Award Amount: Up to $1,500
Application Period: check website

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: please check website

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: please check website

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

MOLECULE OF THE WEEK
https://www.acs.org/content/acs/en/molecule-of-the-week.html

17 MOLECULES THAT CHANGED THE WORLD
https://cosmosmagazine.com/chemistry/17-molecules-changed-world/

CHEMISTRY FOR YOU AND YOUR KIDS

FOILING SPOILING

Other important food additives are used to preserve foods so that bacteria and fungus will not grow on them as fast as they normally would. Some foods change color because of a chemical reaction they have with the oxygen in the air. This reaction is called ***oxidation.*** There are certain chemicals that can be added to foods to slow down this chemical reaction. These chemicals are called antioxidants.

You will need

Paper towels - 4 sheets of paper - Potato - Banana - Apple - Lemon - Water - Butter knife

1. Spread paper towels over your work area. Ask you adult partner to help you cut three pieces each of potato, apple, and banana to about the size shown. Also, ask you adult partner to cut the lemon in half.
2. Place a sheet of paper on your paper towels and put the pieces of potato, apple, and banana on the paper in rows and label the rows as shown.

	Nothing	Lemon Juice	Water
Potato			
Apple			
Banana			

3. Do nothing to the first piece of food in each row. Squeeze a few drops of lemon juice on the second piece in each row so that the whole surface of the piece has lemon juice on it. Put a few drops of water on the third piece in each row so that the whole surface has water on it.
4. Label the column on your piece of paper as "nothing," "lemon juice", and "water" as shown.
5. On a separate sheet of paper, make a chart like the one below but make it big enough to fill the whole sheet. Each box is for you to draw a picture of the food and write down your observations about how it looks.

		Additives		
		Nothing	Lemon Juice	Water
Food	Potato			
	Apple			
	Banana			

Be sure to wash your hands when you finish. Lemon juice can sting your eyes!

6. Wait about one hour and look very closely at your pieces of food. In each box, write down any changes you see in the food in that box. See if you can draw what each piece of food looks like and the changes you see happening to each piece, if any.
   Make at least two more charts to record your observations at 12 and 24 hours. Did the lemon juice act as a preservative?

Excerpt: "The Best of WonderScience," pg. 166, Delmar Publishers, 1997.

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.

Stephanie L. Seidman, Ph.D.
Admitted in the District of Columbia only

Partner, San Diego
D +1 619 595 8010
stephanie.seidman@dentons.com

Dentons. Now the world's largest global elite law firm.*

大成 DENTONS

dentons.com

© 2016 Dentons. Dentons is a global legal practice providing client services worldwide through its member firms and affiliates. Please see dentons.com for Legal Notices.

*Acritas Global Elite Law Firm Brand Index 2013-2015.

NuMega Resonance Labs

FAST TURNAROUND, ACCURATE RESULTS

***NMR 500MHz*Mass*Elemental Analysis**

TEL: (858) 793-6057 *www.numegalabs.com*

2020 ACS REGIONAL MEETINGS

Southwestern/Southeastern (SWRM/SERMACS)	October 14 - 17	New Orleans, LA
Northeast Regional (NERM)	October 18 - 21	Rochester, NY
Midwest Regional Meeting (MWRM)	October 21 - 23	Springfield, MO
Rocky Mountain Regional Meeting (RMRM)	October 30	Fort Collins, CO

LOOKING FOR A CHEMIST?

CHEMPLOYMENT 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***

ACS Webinars™

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

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

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

Linda Woods
lwoods@sdccd.edu
(619) 388-7750

Southwestern College, Chula Vista
Juan Gonzalez
jgonzalez3@swccd.edu
619-421-6700x5947

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

ACS Fall 2020 VIRTUAL Meeting & Expo
August 17 - 20, 2020
https://www.acs.org/content/acs/en/meetings/national-meeting.html?sc=200609_mtg_news_acsmters_SF20_virtualmtg_od

****

HOLIDAY PARTY
The Butcher Shop
5255 Kearny Villa Rd., San Diego, CA 92123
Tuesday, December 3, 2020

THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY

WELCOMES ITS NEW MEMBERS

Michal Achmatowicz
Jinhye Bae
Edward Bergen
Alison Dickens
Chandler N Greene
Casey Marie Heaney
Christopher Hein
Daichi Koiwa
Helen Liu
Helen Martone
Hoa Nguyen
Blair Schueler
Pamela Sontz

2020 EXECUTIVE COMMITTEE & COMMITTEE MEMBERS
SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY

EXECUTIVE COMMITTEE

Chair	James Caldwell, Accelagen, Inc., jcaldwell@sandiegoacs.org	(2020)	815-262-9697
Past Co-Chair	Jennifer Barber-Singh, BioFluidica, jbsingh@sandiegoacs.org	(2020)	858-869-7084
Past Co-Chair	David Wallace, Wallace Scientific Consulting, davidmw@san.rr.com	(2020)	858-638-1866
Chair-Elect	Jim Shih, Eli Lilly & Co, jshih@sandiegoacs.org	(2020)	626-826-3561
Secretary	William Tolley, Seacoast Science, Inc., b_tolley@juno.com	(2020)	858-780-0978
Treasurer	Desiree Grubisha, Heron Therapeutics, desgrubisha@gmail.com	(2020)	858-254-5497

Councilors

Thomas R. Beattie	(2021)	858-293-3012
Hui Cai, WuXi AppTec	(2022)	858-361-8838
Desiree Grubisha, Heron Therapeutics	(2021)	858-254-5497
Valerie Kuck	(2020)	973-744-5510
Jackie Trischman, CSUSM	(2022)	858-414-3323
David Wallace, Wallace Scientific Consulting	(2021)	858-638-1866

Alternate Councilors

Surya K. De, Supra Sciences, Inc.	(2022)	858-337-4961
Julann Miller, Waters Corporation	(2020)	800-252-4752 x6802
Ken Poggenburg	(2022)	760-635-2573
Ben Pratt, Pratt Pharma Consulting LLC	(2022)	858-945-7893
Shannon Woodruff, HP Inc.	(2020)	949-735-9021

Members-at-Large

Paul Bruinsma, HP Inc.	(2020)	858-655-8322
Juan P. Gonzalez-Gonzalez, Southwestern College	(2020)	619-813-8520
James O'Brien	(2020)	858-336-0654
Bill Szabo	(2022)	858-550-0306
Joann Um, Southwestern College	(2022)	510-823-8637

STANDING & SPECIAL COMMITTEES

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

ChemExpo
- Paul Bruinsma (Chair), HP Inc. 858-655-8322
- Jackie Trischman, CSUSM 858-414-3323

Communications Committee
- Paul Bruinsma, (Chair), HP Inc. 858-655-8322
- Surya K. De, Supra Sciences, Inc. 858-337-4961
- Desiree Grubisha, Heron Therapeutics 858-254-5497
- Ken Poggenburg 760-635-2573
- Renate Valois (Newsletter Editor) 619-692-0638
- David Wallace, Wallace Scientific Consulting 858-638-1866

Distinguished Scientist Awards Nomination Committee
- Thomas R. Beattie (Chair) 858-293-3012
- Tammy Dwyer USD 619-260-4030
- Barbara Sawrey 858-729-0689
- David Wallace, Wallace Scientific Consulting 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 858-293-3012
- John Schindler 858-353-3943

Fundraising Committee
- James Caldwell, Accelagen, Inc 815-262-9697

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 858-293-3012

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), Wallace Scientific Consulting 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 858-293-3012

Women Chemists Committee
- Valerie Kuck 973-744-5510

Younger Chemists Committee
- ***OPEN***

Voice Mail – San Diego Section 619-687-5570