ACS Chemistry for Life®

The San Diego Chemist

American Chemical Society **San Diego Section**
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Skin-Inspired Organic Electronics

Zhenan Bao, Ph.D.
K.K. Lee Professor of Chemical Engineering
and (by courtesy) Professor of Chemistry,
Materials Science and Engineering, Stanford University

DATE: **Wednesday, November 4, 2020**

TIME: **7:00-8:00 pm**

PLACE: **Your Computer (ZOOM Meeting)**

RSVP: **https://www.eventbrite.com/e/designing-artificial-electronic-skin-tickets-123780820767**

THE SPEAKER
Zhenan Bao is Chair of the Chemical Engineering Department at Stanford University. Bao was selected as one of *Nature's* Ten People Who Mattered in 2015 as a "Master of Materials" for her work on artificial electronic skin. In 2020 she was awarded the inaugural ACS Central Science Disruptor and Innovator Prize. Bao has received numerous national and international science awards. Bao is a member of the National Academy of Engineering and the National Academy of Inventors. She is a Fellow of MRS, ACS, AAAS, SPIE, ACS PMSE and ACS POLY.

THE PRESENTATION
Skin is the body's largest organ and is responsible for the transduction of a vast amount of information. This conformable, stretchable, self-healable and biodegradable material simultaneously collects signals from external stimuli that translate into information such as pressure, pain, and temperature. The development of electronic materials, inspired by the complexity of this organ, is a tremendous unrealized materials challenge. However, the advent of organic-based electronic materials may offer a potential solution to this long-standing problem. In this talk, I will describe the design of organic electronic materials to mimic skin functions. These new materials and new devices enabled a range of new applications in medical devices, robotics and wearable electronics.

CHAIR NOTES

Dear ACS Community,

Our October event, a virtual cheese science presentation by **Dr. Rachel Dutton**, Associate Professor, Biological Sciences, UCSD, and **Robert Graff**, Venissimo's Academy of Cheese, was a great success! I had many emails thanking us for the cheese plate and the chance to learn the chemistry of cheese.

On November 25th the chance to vote for our Executive Committee positions ends. I encourage you to vote or consider being involved with the inner working of our organization and self-nominate for a position (please send a short biography to **Renate Valois, renate@sandiegoacs.org**). Please email me if you have any questions.

We need speakers to participate in the biochemistry symposia for the **ACS Las Vegas October 2022 Western Regional Meeting**. Please send me your abstract or nominate someone you think would be a great speaker. The symposia will likely be virtual; however, I have hope that the pandemic will be suppressed by then.

Upcoming events include: **Designing Artificial Electronic Skin** seminar on Wednesday, November 4, 2020, from 7:00 PM to 8:00 PM (PST) and our **year end wrap up meeting/holiday party** on December 3rd. The Holiday Party *may* still happen but there is a very good chance we will make it virtual (we are planning something special for those who attend), still to be announced.

Our next Executive Committee Meeting will take place on Thursday, November 5th, 6 PM, online. Our meetings are on the web platform "Zoom". I can give you basic introductory training to get you participating. All you need is a smartphone or computer, with 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:
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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 Zoom Meeting
6:00 – 8:00 pm Thursday November 5th

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.

ACS-HACH PROGRAMS

ACS-Hach Professional Development Grant
Funds professional development experiences for secondary chemistry teachers.
Award Amount: Up to $1,500
Application Period: Deadline: January 4, 2021

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

ACS ELECTIONS ARE HERE!

Voting will be done electronically using your email address on record with the ACS. If you wish to receive a paper ballot instead, please call or email **Jackie Trischman**, Election Coordinator, at ***858-414-3323*** or trischma@csusm.edu, by **Monday, November 2nd**, 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 e-mail address with the ACS, use www.chemistry.org

EXECUTIVE BOARD CANDIDATES FOR 2021
ACS SAN DIEGO SECTION
CANDIDATE BACKGROUNDS

CHAIR-ELECT
JUAN GONZALEZ-GONZALEZ

Juan was an unlikely person to go into chemistry (he was once a music major). However, after a chance meeting with David Brown Juan Gonzalez was an unlikely person to go into chemistry (he was once a music major). However, after a chance meeting with David Brown at Southwestern College, Juan went down the path of chemical sciences as an undergraduate. Juan went on to become a founding officer of the ACS Student Affiliate chapter at Southwestern College, which has maintained a strong presence at the college and in the community for almost 20 years. Juan transferred to San Diego State University to finish his Bachelor's degree. A couple of years later, Juan returned to San Diego State for graduate study. There, he specialized in nanochemistry and device applications, where he developed low-cost, reliable methods for the deposition of various types of semiconductor thin films.

Juan has spent the majority of his professional career working to innovate STEM education. For over 12 years, Juan was a high school STEM teacher in both public and private school systems. He created and developed novel courses that emphasize the interdisciplinary nature of "real-world" science while fostering career-ready STEM skills. Juan has been instrumental in helping hundreds of historically underrepresented students break into STEM internships and careers. He tirelessly continues this work at his Alma Mater where he is now a tenure-track professor of chemistry and the current Student Affiliate chapter advisor.

Juan recognizes that the strength of the Executive Committee comes from leveraging the impressive talents and viewpoints that his fellow members offer. If elected as chair-elect, Juan's priority is to build strong collegial relations with the other Executive Committee members to ensure an environment conducive to constructive collaboration.

As chair-elect, Juan would continue the tradition of excellence of past Executive Committees of creating meaningful professional development opportunities, as well as promoting chemical education in the community. Juan's vision is to help diversify our local chemistry community and to help give aspiring chemists, especially those from historically underserved backgrounds a platform for greater participation in the ACS. As an older Millennial and the first in his family to go to college, Juan is confident he can be that inter-generational bridge. Juan's personal goals as chair-elect include:

- Creating social opportunities to cultivate relationships with our local professional talent and industry partners.
- Creating events and opportunities that directly support collaboration between the local student affiliate chapters
- Creating resume-building opportunities for high school and community college chemistry students
- Increasing the local section's presence on social media platforms, especially those catering to younger chemists to increase new membership.
- Creating mentoring opportunities for pre- and early career chemists by matching them with established or retired chemical professionals in the local ACS network.

SECRETARY
WILLIAM TOLLEY

Bill earned a B.S. and M.S. in Metallurgical Engineering from the University of Utah and a Ph.D. in Inorganic Chemistry from the Brigham Young University. His research focused on the interactions of inorganic compounds with supercritical fluids. This work led to a patent describing novel processing to purify metals using vapor-phase chemistry. In 2008, Bill joined Seacoast Science, Inc., located in Carlsbad, CA, where he currently is Principal Scientist and Production Manager. He led development of the Mini-GC, launched in August 2009, and Go Direct Mini-GC launched in Spring 2020. Previously, he chaired the subgroup to write new alarm certification protocols under UL 2035 - Single Station Gas Detectors, served as Director of Quality Assurance at Quantum Group Inc. in San Diego.

Bill is a member of the American Chemical Society, where he is a member of the San Diego Section executive committee and in his sixteenth year as Secretary to the Section. He is a lifetime member of Sigma Xi (The Scientific Research Society). He has authored or coauthored 26 U.S. patents and over 75 journal articles and presentations in chemical sensing, process control and materials production.

TREASURER
DESIREE GRUBISHA

Desiree has worked in Lab QA in Commercial Quality Control at AstraZeneca/Amylin Pharmaceuticals supporting diabetes medicines in the worldwide market. Prior to this, she worked at Amylin Pharmaceuticals in Analytical R&D supporting clinical trial programs for diabetes and severe lipodystrophy. Desiree has been an active volunteer with the San Diego ACS Section since 2004. She has been involved with ChemExpo, YCC and WCC activities, planning committee for the 41st Western Regional Meeting in 2007, and has served on the Public Relations committee. She is currently serving the San Diego Section in the Communications Committee and as a Councilor. Desiree earned a PhD in inorganic chemistry from the University of Wisconsin, Milwaukee, and did postdoctoral research toward novel detection platforms for molecular diagnostics in the Microanalytical Instrumentation Center at Iowa State University. Desiree is employed by Heron Therapeutics.

COUNCILOR
VALERIE KUCK

Valerie has been active in the American Chemical Society for over forty years. She has served as a Councilor from the North Jersey and San Diego Sections for a total of thirty-four years. In addition, she was a member of the ACS Board of Directors for nine years.

While living in New Jersey, she chaired the NJ Local Section and lead several activities, including co-chairing the Section's National Chemistry Week activities; leading the Section's outreach efforts to K-12 students; presenting career workshops and talks for the unemployed and college students; overseeing the Section's General Interest talks, and establishing one of the first Local Section Women Chemists Committees in the ACS.

Since joining the San Diego Section in 2015, she has become a member of the Executive Committee and has led efforts to reach out to the Section's K-12 students, organized career talks to support college students, presented General Interest talks to increase member involvement, worked successfully to increase the number of Section members nominated for ACS national and Section awards, and significantly grown the number of economically disadvantaged high school students participating in the Section's Project SEED efforts. She also is continuing her efforts to help the unemployed improve their resumes and interviewing skills.

On the national level, Valerie has chaired six national Council Committees and one Board Committee. Currently, she is the Secretary for the national Senior Chemist Committee.

In 2000, Valerie retired from Lucent Technologies Bell Laboratories, Murray Hill, New Jersey, where she conducted basic research on ground state triplets and did applied research on the stabilization of polyolefin coatings for copper wire and the development of high temperature coatings for optical fibers and electronic devices. She holds 24 U.S. patents.

For her contributions to the ACS and to chemistry, she was awarded the ACS Garvan-Olin Medal. Previously, she had received the ACS Award for Volunteer Service to the Society and The ACS Award for Encouraging Women into Careers in the Chemical Sciences. In 2000, the Santa Clara Section awarded Valerie the Shirley Radding Award based on her leadership in the ACS. Valerie has received four awards from Bell Laboratories and was named a Distinguished Alumnus of the Purdue University Chemistry Department and from her undergraduate institution, St. Mary-of-the Woods College.

ALTERNATE COUNCILOR
JULANN MILLER

I have participated in ChemExpo each Fall for the past decade, SDACS National Chemistry Week coordinator, along with Paul Bruinsma and a great team of local colleges and volunteers. I have successfully gained an ACS National IPG grant for our Analytical Chemistry Symposium, and with a great group of symposium committee colleagues, organized three meetings on the topic. ACS service awards in 2008, 2014 and 2018. I currently provide analytical chemistry solutions in San Diego, employed by Waters Corporation.

ALTERNATE COUNCILOR
JOHN SCHINDLER

John received a B.S. in Engineering Science (1970) and a M.S.C. (1972) in chemistry at the Cleveland State U.
Concurrently, he worked at CA Litzler, at Republic Steel's Research Center and with Hydrotechnic Corporation and
attended the 1970 Winter Institute of the Quantum Theory Project at the U. of Florida. At CSU, in 1972 he was a
Standard Oil Summer Research Fellow, and a Lecturer in Engineering Technology (Fall). In 1973 he joined the Coatings Research Center of PPG (Pittsburgh) and was an evening post-graduate student at both Carnegie-Mellon U. and the U. of Pittsburgh. He entered USC (1976-80) Ph.D. (1980) and then spent two years as NSF Post-Doctoral Fellow at UCLA. He joined the USD chemistry department in 1982 [DOE-ASEE Summer Faculty Fellow at JPL (1983)], leaving (1986) for an ONT-ASEE Fellowship in the Materials Research Branch of the Navy's Point Loma Labs. He joined Reagents Applications (1991-92) as Senior Chemist in Research and the San Diego Air Pollution Control District (1992-2009), as Associate Chemist in the Monitoring & Technical Services Department, supervising outside contractors in the pollution testing of newly constructed potential sources until transferring (2006) to the ambient air monitoring section, performing GC organic vapor analysis on ambient air samples. John took early retirement (August 2009) in order to pursue other opportunities and objectives as Chief Scientist of Mayer-Spisak Engineering Sciences. He has authored/co-authored over 15 research papers. He is a member of the ACS, American Institute of Chemical Engineers, Society for Applied Spectroscopy, the Spectroscopy Society of Pittsburgh, an elected member of Sigma Xi; and is a Registered Professional Engineer (OH & PA). John has served the ACS San Diego Section for over 19 years [Chair-Elect, Chair & Past Chair (1983-85), Member-at-Large of the ACS Executive Committee (1986-89, 1997-99, 2012), & Alternate Councilor (2013-18)], and received the Outstanding Committee Chair Award in 2016.

ALTERNATE COUNCILOR
SHANNON WOODRUFF

Shannon has been an ACS member since 2007. Shortly after joining, he served as an ACS student chapter president (2007-2010), helping to earn the chapter's first-ever Green Chemistry Student Chapter Award (2009). He has been an active member of the Heart O' Texas, DFW, and San Diego Local Section. He has previously served as the webmaster for the SDACS website and has served as an alternate councilor since 2018.

Shannon received his B.S. degrees in chemistry and cell biology from the University of Mary Hardin-Baylor (2010). He went on to earn his Ph.D. in polymer chemistry from Southern Methodist University (2015), studying controlled/"living" radical polymerization and post-polymerization modifications under the advisement of Professor Nicolay Tsarevsky. During graduate school, Shannon also worked as a consultant for Resolution Biomedical in Tustin, CA. Since January 2016, he has been an R&D chemist at HP Inc., being responsible for developing new materials and agents for the Multi Jet Fusion 3D Printing platform.

Shannon is an active reviewer for the Journal of Chemical Education, has co-directed several chemistry camps, and was a semifinalist in the ACS ChemChamps science communication competition (2014). He is dedicated to enhancing the public's view of chemistry via educational outreach and science communication.

MEMBER-AT-LARGE

JAMES O'BRIEN

Jim is a 22-year member of ACS with the Inorganic division, and most recent national conference attendance was presenting research from his company, Off Grid Research, at the 2019 San Diego fall meeting. Graduating from UC San Diego, he was a teaching assistant for 21 classes, lecturer for 8 classes and adjunct professor at University of San Diego for 24 classes. As such, he has been involved with the teaching of chemistry to 10,000+ students in the local area. Moving on to industry in 2001, he continued regular attendance, presentations and exhibiting at national meetings with Quantum Design, specializing in SQUID based magnetometers. With that job, he has mentored many international chemistry students and professors on how to acquire data for major publications. His well-known motto is "do a demo for every lecture", to effectively engage the students and achieve superb attendance. With that experience, there will be a commitment to serving the local section through National Chemistry Week activities and supporting STEAM programs in San Diego Unified School District. His periodic table, first released at the American Physical Society meeting in 2011 during the international year of chemistry, was updated in 11/2016 for global marketing of a magnetic separator product. Jim just started a new position with TE Connectivity, making ceramic thermistors for the disposable medical thermometer applications.

MEMBER-AT-LARGE

OPEN

MEMBER-AT-LARGE

OPEN

MEMBER-AT-LARGE

OPEN

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VOTE

BY

NOVEMBER 25

VIRTUAL CHEESE SCIENCE PRESENTATION

Rob Graff of Venissimo Cheese and the Academy of Cheese, and **Dr. Rachel Dutton**, Associate Professor of Molecular Biology at UCSD and winner of the 2018 NIH Director's New Innovator Award, teamed up to deliver an outstanding virtual experience in cheese science to 88 attendees on October 8, 2020. Participants tasted five different cheeses which they picked up at or had delivered by Venissimo. Topics covered included: What chemical properties make curd separate from whey, what chemicals make the stinky smell of some cheeses, why oxygen is needed to produce the blue color in blue cheese, and the scientific characterization of the diversity of microbes involved in the aging of cheeses.

During the talk, **Dr. Dutton** explained the microbiology and a bit of chemistry behind cheese in general, then went on to give more detail about each one of the cheeses. **Rob** added cultural history and the two of them sparked many wonderful questions.

The crowd that had gathered virtually was very enthusiastic about the talk, with comments like:
"That presentation was great and the assortment of cheeses was just as good! Thank you for putting the event together. It helped remind me of just how much chemistry goes on around us."

"Kudos for tonight's meeting! It was superb… They also kept their talk on a level that could keep the interest of anyone. And I thought the way the questions were handled and discussed went surprisingly well for such a crowd."

"The presentation last Thursday was AWESOME! And the cheese/wine were perfect."

"Very entertaining and enjoyable. I learned a lot. Good show!"

James Caldwell, **Jim Shih**, and **Jackie Trischman** brought an ACS Innovative Project Grant to the Section to sponsor the event. **James** hosted the event on Zoom and he, **Rob**, and **Rachel** handled the questions and the technology like old pros. All in all, the talk went very well! The Zoom online platform along with the plate of five different cheeses to taste was a big hit!

James Caldwell, Chair, Local Section, ACS

SUMMARY OF THE SAN DIEGO ACS SECTION EXECUTIVE COMMITTEE TELECONFERENCE October 1, 2020

Minutes from September ExComm Teleconference – **Approved with edits**

Treasurer's Report – Receipts: IPG awarded but check not yet received, received local section dues for period Jan. - June $4350.50; expenses: storage unit rental $94, October Newsletter preparation $400, Post Office bulk mailing permit $240; total financial assets $452K
Action: James Caldwell to check on canceling bulk mailing permit considering Section no longer uses bulk mailings

Monthly Seminar - Cheese Chemistry – 86 registered at this point, grant covers up to 100 attendees

Year-end Wrap-Up – Current health directives do not allow in-person gatherings above 10 persons, Section in position to conduct a virtual meeting

METT Grant Application – Due in 2 weeks – funding for better technology to enhance Section's recruitment efforts

JOURNYs – Vol 11.1 has now been published, which ExComm has agreed to support

Mad Science – Mad Science is still offering programs within health-related restrictions (the company remains in business); the intent of SDACS in supporting Mad Science programs is to emphasize sponsoring programs at schools with large population of Military families and schools with large numbers of subsidized lunches

November Monthly Seminar – Nov. 4, Dr. Zhenan Bao – Stanford University -- electronic artificial skin for skin transplants

National Chemistry Week – Section arranging for students to produce / record "bite-sized" educational videos – 6-min max – on topic of "sticking with chemistry", and upload to YouTube for judging; two divisions: Grades 9-12 and post high school, need to add safety considerations to judging rubric, may want to add suggestions to seed concept development; submission deadline Oct. 23, Jackie, Desiree volunteering to help in judging entries.
Motion: Six awards for total of $1,200 -- **Approved**

YCC – Committee has defined Mission / Goals of committee; planning to organize a career panel for November *[later finalized for December 2nd]* to be a virtual meeting, also use as an opportunity to introduce YCC committee members, sponsoring $100 incentives for three attendees; aiming to schedule quarterly events 2021-Q1 considering a "3-minute thesis" seminar to present current research with prizes for winners, 2021-Q2 – career development webinar
Motion: Request to purchase gift cards for incentives to attendees – **Approved**

2021 Monthly Meetings – Working to organize seminars with topics of protein degraders, COVID therapies that would be presented by Lilly VP immunology including discussion of repurposed drugs to treat COVID-19 – suppress virus or combat symptoms, possible topic to discuss High-Tech High fabricating missiles (Blue Dot Education); other ideas for 2021 events -- please submit ideas to Jim Shih

Next meeting: November 5

SAN DIEGO YCC

The San Diego Section of the ACS Younger Chemists Committee (YCC) cordially invites you to a Meet & Greet with the county's representatives. Join us as we introduce the YCC's mission towards supporting future chemists through advocacy, professional development, and networking. During the panel, members of the YCC will share their career journeys, and attendees will have the opportunity to actively engage with the panelists. There will be 3 raffles ($100 each) for 3 lucky attendees!

Event: YCC Meet & Greet Career Panel

Date/Time: Wednesday, December 2, 2020, from 3:00-4:00 pm PST

Where: Virtual – A link will be provided closer to the event date

Registration: https://www.eventbrite.com/e/san-diego-younger-chemists-meet-greet-tickets-124497018935

ELEMENTAL HAIKU
Author Mary Soon

https://www.google.com/search?q=%22Mary+Soon+Lee%22+%22elemental+haiku%22&rlz=1C1TSNF_enUS899US899&oq=%22Mary+Soon+Lee%22+%22elemental+haiku%22&aqs=chrome..69i57j0.26927j0j7&sourceid=chrome&ie=UTF-8

Palladium, Pd
How much hydrogen must you swallow up to please cold fusion dreamers?

Silver, Ag
Treacherous treasure, avarice tarnishing us, photos claiming souls.

Cadmium, Cd
Defined the angstrom, until krypton ousted you. Now looking for work.

Indium, In
Cadmium's daughter, by way of neutron capture; adrift in stardust.

Tin, Sn
Your magic number, a secret no one could guess back in the Bronze Age.

Antimony, Sb
Outline eyes with kohl in the ancient tradition. Forgo explosions.

Tellurium, Te
So rare here on Earth, because you fled into space. Sighted by Hubble.

Iodine, I
A fortunate fluke: found fuming from French seaweed, sublime purple gas.

Xenon, Xe
First noble compound? Hexafluoroplatinate? Making history.

Caesium, Cs
Hot-headed firebrand whose violent behavior hides a softer side.

Barium, Ba
Let those enduring, your enemas remember fireworks' green splendor.

Lanthanum, La
Down in the cheap seats underneath the main table, leading your namesakes.

Cerium, Ce
More common than lead, and yet an ardent member of the rare earth club.

Praseodymium, Pr
Magnetic cooling. Absolute zero beckons. Approach the limit.

Neodymium, Nd
Delved from China's mines, mixed with iron and boron. Strong magnets, high costs.

Promethium, Pm
Instability, radioactivity; lanthanide bad boy.

Thulium, Tm
Fifteen thousand steps, to gain the first pure sample. Extreme chemistry.

Ytterbium, Yb
Stable to within
two parts in a quintillion: Atomic clock ticks.

Lutetium, Lu
Helicopter dad, keeping your electrons close to your nucleus.

Hafnium, Hf
Yield the holy grail: induced gamma emission. Let the price be low.

Tantalum, Ta
Smaller and lighter, your tiny capacitors, digital darlings.

Tungsten, W
Illuminated, the twentieth century, glowing with such pride.

Rhenium, Re
1925. Found: new element. Stable. The last to be caught.

Osmium, Os
Humiliated underneath the dunce's cap, densest in the class.

Iridium, Ir
The dinosaurs gone: your fingerprint in the clay. Incriminating.

Platinum, Pt
In a basement vault, nestled within, three bell jars, the measure of mass.

Samarium, Sm
Bone deep, such kindness; curtailing cancerous cells, easing others' pain.

Europium, Eu
Defending euros, contained in every banknote, glowing in UV.

Gadolinium, Gd
Within reactors, your appetite for neutrons can be bothersome.

Terbium, Tb
Spent kindergarten being teased: "TB, TB!" Still hate your symbol.

Dysprosium, Dy
In Terfenol-D, pulse to the magnetic beat. Expand. Contract. Dance.

Holmium, Ho
The root of the name elementary, my dear. Stockholm, not Sherlock.

Erbium, Er
Internet helpmate, improving fiber optics. Rose-tinted data?

Gold, Au
Deep they delved for thee, yet deeper still thy dwelling in the Earth's dark core.

Mercury, Hg
Madness the price paid for your molten alchemy. Metal. Planet. God.

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2020 - 2021 ACS REGIONAL MEETINGS

Southwestern/Southeastern (SWRM/SERMACS)	October 14 - 17	Canceled
Midwest Regional Meeting (http://mwrm2020.org/)	October 21 - 23	Springfield, MO
Rocky Mountain Regional Meeting (RMRM) virtual	November 12-13	Online
Great Lakes Regional Meeting (GLRM)	June 6-9, 2021	Minneapolis, MN

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.

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For information contact:
Renate Valois – renate@sandiegoacs.org

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

LOOKING FOR VOLUNTEERS

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.

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.

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

FUN AND GAMES WITH DR. ZACH THAMMAVONGSY

If you like fun and games the chemistry way …. this is for you

https://cen.acs.org/education/Chemistry-style-fun-games/98/i30

UPCOMING EVENTS

SKIN-INSPIRED ORGANIC ELECTRONICS
Zhenan Bao, Ph.D.
K.K. Lee Professor of Chemical Engineering
and by courtesy Professor of Chemistry, Materials Science and Engineering, Stanford University
Wednesday, November 4, 2020

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Younger Chemists Committee (YCC) Meet & Greet Career Panel
Virtual – A link will be provided closer to the event date
Wednesday, December 2, 2020, from 3:00-4:00 pm

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HOLIDAY PARTY
The Butcher Shop
5255 Kearny Villa Rd., San Diego, CA 92123
Tuesday, December 3, 2020
5:30 PM

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SAN DIEGO FESTIVAL OF SCIENCE & ENGINEERING
EXPO DAY at PETCO Park
Saturday, March 2021
https://www.lovestemsd.org/
https://www.petcoparkinsider.com/science-expo

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261st ACS NATIONAL MEETING & EXPOSITION
March 21 - 25, 2021
San Antonio, Texas

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EARTH DAY - EARTHFAIR 2021
Balboa Park, San Diego, CA
http://www.earthdayweb.org/
Sunday, April 25, 2021

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262nd ACS NATIONAL MEETING & EXPOSITION
August 22-26, 2021
Atlanta, Georgia

THE SAN DIEGO SECTION OF THE AMERICAN CHEMICAL SOCIETY

WELCOMES ITS NEW MEMBERS

Mary Akinmurele
Mara Alonso
Lizbeth Banuelos
Marco Burger
Andrew Cooksy
Levan Darjania
Jaira Gabionza
Mathew Halter
Yingqin Hou
Nelson Lam
John Merz
Robert Prince
Jacob Steensma
Annabel Truong
Christina Vialva

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
- Kristen Counsell — 319-830-3097
- Alexander Rovira, Janssen Research and Development — 858-784-3013
- Brittany P. Witherspoon, Janssen Research and Development — 619-373-2436

Voice Mail – San Diego Section — 619-687-5570