

SILICON VALLEY CHEMIST

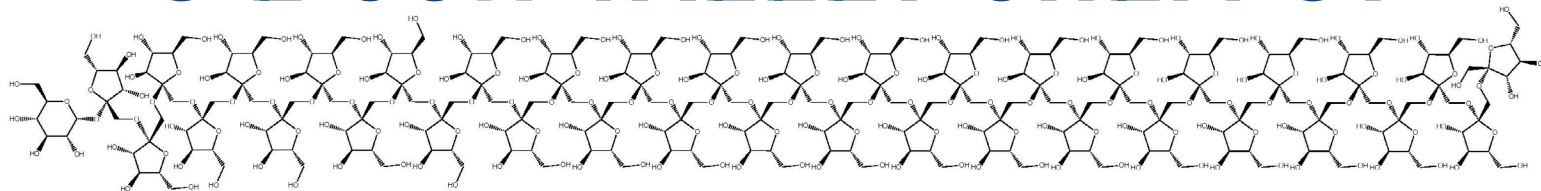


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Chemistry Unleashed - Magic Show

Magic Show: The Chemistry of Awe

Magician Robert Strong

Sponsored by Stanford Chemistry Department (Chem 93 Seminar)

7:30-8:30 pm, In person, Stanford University, Sapp Center Auditorium 111, Free, No registration required

Hosted by Lecturers Drs. Megan Brennan and Teresa Nguyen, the Stanford Chemistry Department is launching a new seminar series this spring that is open to everyone:

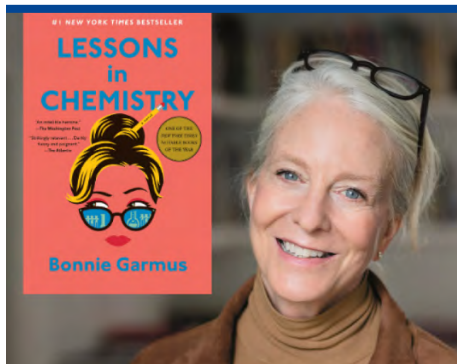
Chem 93 - Chemistry Unleashed: Exploring the Chemistry that Transforms Our World

Ever wondered how chemistry weaves its magic into every fiber of our existence? Why does mint taste cool? What's the chemistry behind your favorite skincare product? How do molecules shape the taste of your food, or even the feelings of love? Each week, we'll explore such fascinating questions with the guidance of expert speakers from diverse fields such as gastronomy, environmental science, aerospace engineering, medicine, and pharmaceuticals. They'll share the chemistry secrets that drive their respective industries, turning abstract chemical principles into tangible, real-world phenomena. This seminar course will bring chemistry out of the textbooks and into the real world, demonstrating

continued on next page



[download flyer](#)



Lessons in Chemistry

An Evening with Bonnie Garmus, Author of Lessons in Chemistry: A fireside chat moderated by Professor Christine Min Wotipka

Sponsored by the Stanford Graduate School of Education

5:00-8:00 pm, Held at the Frances C. Arrillaga Alumni Center, 326 Galvez Street, Stanford University, Free, [Registration required](#)

Chemists Celebrate Earth Week (CCEW)

GET A **CHARGE** OUT OF CHEMISTRY



April 21-27, 2024 | #CCEW



"Celebrate batteries and their role in creating a more sustainable world during April 21-27, 2024, which is Chemists Celebrate Earth Week.

continued on next page

Chemistry Unleashed, continued from front page

its integral role in everyday life and industries. Join us to unravel the mysteries of the universe one molecule at a time and gain insights into potential careers in chemistry through engagement with industry professionals. Strap on your lab goggles and join us for an adventure into the invisible, yet extraordinary world of chemistry. Are you ready to dive in?

Please join us this Thursday evening, April 4th from 7:30-8:30 PM in the Auditorium (Room 111) of the *Sapp Center for Teaching and Learning* for the kickoff to the series with a talk and magic show by Special guest, *Magician Robert Strong* on the "Magic Show: The Chemistry of Awe." Robert will provide some insights on the correlation

between chemistry and the world of magic. To get a glimpse and a preview on his talk, please see Robert's most recent *TED talk on AI Jeopardy with a Magic Twist*.

Chemists celebrate Earth Week, continued from front page

This year is all about batteries. Batteries have the power because they can accept energy from alternative energy sources such as solar, wind, and hydropower, then store it in chemical bonds. Anywhere and anytime we want, batteries release electrical energy. Today, batteries are an indispensable part of our world. We use them in devices, such as remote

controls, wheelchairs, hearing aids, cars, mobile phones, laptops, bike lights, and more.

Did you know that by 2025, the global EV (electric vehicle) market is expected to be valued at \$567 billion? Innovations in battery design and efficiency for the entire lifecycle of batteries will protect our environment even more. Get a Charge out of Chemistry as you learn about batteries and their impact on our everyday lives!"

- Attend our CCEW Events (see Upcoming Events in this issue of the newsletter).
- Check out the free *Educational Resources* for K-12 students and teachers on the CCEW website.
- Access *current* and *past issues* of Celebrating Chemistry (PDF) (available in English and Spanish).
- Participate in the *illustrated poem contest* for K-12 students. *Submission Deadline: Sunday, April 28, 2024, by 8:59 PM Pacific Time. Please send submissions to Natalie McClure*
- Explore *General Interest Resources* for college students and adults



CHEMISTS CELEBRATE EARTH WEEK 2024

Get a Charge out of Chemistry!

A FREE, interactive experience for kids of all ages and their families featuring:

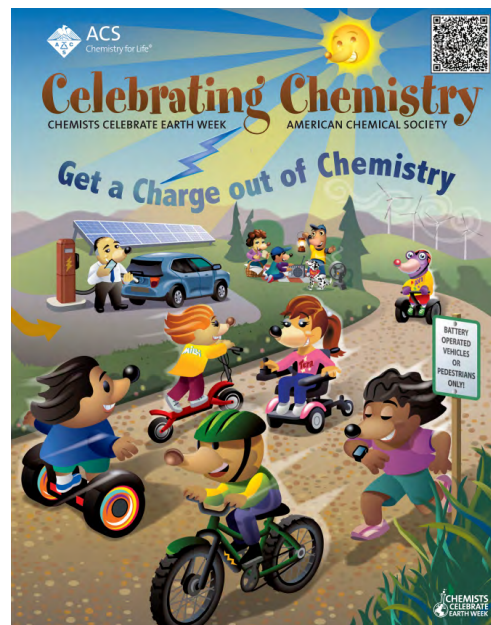
- Hands-on chemistry activities for kids, about the chemistry of batteries!
- A battery workshop, boo bubbles and more!
- Free copy of "Celebrating Chemistry" the ACS publication for kids.
- **PRIZES** for every child who participates!

No registration required.

To request an accommodation under the Americans with Disabilities Act (ADA) for library events, please call 408-808-2355 or email Accessibility@sjlibrary.org at least one week prior to the event.

SATURDAY,
APRIL 27
Time 11 a.m.—2 p.m.

King Library, Children's Room
150 E. San Fernando
San José, CA 95112
(408) 808-2183



[View this issue](#)

CALENDAR OF EVENTS

<https://www.siliconvalleyacs.org/events/>

- April 2024 -

Apr 4 **Is Grad School Right for Me? ACS Virtual Office Hours**
Sponsored by ACS Career Services
9:00-10:30 am, Online, Free, [Registration required](#) | [Learn more](#)

Apr 4 **SPE GGS Networking Event**
Sponsored by the Society for Plastics Engineers, Golden Gate Section
4:00-6:00 pm, In person, 2520 Augustine Drive Santa Clara, CA 95054
Free, [Registration required](#)

Apr 10 **See What's New in CAS SciFinder-n**
Sponsored by CAS
11 am-Noon, Online, Free, [Registration required](#)

Apr 10 **From the Innovator's Workbench with Ted W. Love, MD**
Dr. Ted W. Love, Chair of the Board, Biotechnology Innovation Organization (BIO)
Sponsored by Stanford Byers Center for Biodesign
6:00-7:00 pm, In person and online, Clark Center, James H. Clark Auditorium, 318 Campus Drive, Stanford, CA 94305, Free, [Registration required](#)

Apr 11 **Inclusive Science: Making STEM Accessible for Everyone**
Prof. Bradley Duerstock, School of Industrial Engineering, Purdue University; Cristina Bartolomei, Portfolio Manager, ACS Office of Diversity, Equity, Inclusion and Respect
Sponsored by ACS Webinars and ACS Office of Diversity, Equity, Inclusion and Respect
11:00 am-Noon, Online, Free, [Registration required](#)

Apr 11 **Is ChatGPT for Me?**
Sponsored by American Association of Chemistry Teachers (AACT) Webinars
4:00-5:00 pm, Online, Free, [Registration required](#)

Apr 12 **Accelerating Discovery with AI: Self-Driving Laboratories**
Prof. Alán Aspuru-Guzik, Chemistry and Computer Science, University of Toronto; Angela K. Wilson, Associate Dean for Strategic Initiatives, College of Natural Sciences and Prof. Chemistry, Michigan State University; and Prof. Young-Shin Jun, Department of Energy, Environmental and Chemical Engineering, Washington University in St. Louis and Chair of Science & Technology Subcommittee, ACS Committee on Science
Sponsored by ACS Webinars and the ACS Committee on Science
11:00 am-Noon, Online, Free, [Registration required](#)

Apr 13 **RAMP in the Research Lab - ACS CHAS Peer-Led Workshop**
Sponsored by the ACS Chemical Health & Safety Division
11am-2:30pm, Online, \$25 per participant, [Registration required](#)

Apr 13 **Kid Makers: Celebrate Earth Day!**
Sponsored by Silicon Valley ACS and Redwood City Public Library (RCPL)
2:00-3:00 pm, In person, RCPL Downtown Location, 1044 Middlefield Road, Redwood City, Free, [Learn more](#)

Apr 17 **Setting Yourself Up for Success in an Interview - ACS Career Pathways Virtual Workshop**
Sponsored by ACS Career Services
9:00-10:30 am, Online, Free, [Registration required](#)

Apr 21-27 **Chemists Celebrate Earth Week – Theme: Get a Charge out of Chemistry**
Sponsored by the American Chemical Society [Learn more](#)

Apr 22 **Hartnell College Annual Spring 2024 Career and Resource Fair**
ACS booth hosted by Silicon Valley ACS and the Hartnell Chemistry Club
11:00 AM – 2:00 PM, in-person, Hartnell College Main Campus, 411 Central Avenue, Salinas. This is an outdoor event. [Learn more](#)

Apr 24 **SynBio Solutions: Advancing Sustainable Pharmaceutical Manufacturing - A Conversation with Dr. Christina Smolke**
Prof. Smolke, Bioengineering and Chemical Engineering Departments, Stanford University
Sponsored by Stanford Sustainability Accelerator
11:30 am-12:20 pm, In person and online, Mitchell Earth Sciences, Room 350, 397 Panama Mall, Stanford, CA 94305, Free, [Registration required](#)

Apr 24 **The Macroeconomics of Climate Change: Key Issues, Policy Responses, and International Cooperation**
Mr. Bo Li, Deputy Managing Director at the International Monetary Fund
Sponsored by Stanford University Libraries and the Stanford Center on China's Economy and Institutions
4:30-6:30 pm, In person and online, Green Library, Bing Wing, 5th floor, Bender Room, 459 Lasuen Mall, Stanford, CA 94305, Free, [Registration required](#)

Apr 25 **Eliminating Malaria: Unraveling the Mysteries of Parasitic Transmission and Metamorphosis**
Prof. Lyn-Marié Birkholtz, Biochemistry & South African Research Chair in Sustainable Malaria Control, University of Pretoria; Prof. Emily R. Derbyshire, Chemistry and Molecular Genetics & Microbiology, Duke University; Jeremy Burrows, VP & Head of Drug Discovery Medicines for Malaria Venture
Sponsored by ACS Webinars and ACS Publications
8:00-9:30 am, Online, Free, [Registration required](#)

Apr 27 **Chemists Celebrate Earth Week**
Sponsored by Silicon Valley ACS and the Martin Luther King, Jr. Library
11:00 am-2:00 pm, In person, Martin Luther King, Jr. Library, San Jose, Free, [Learn more](#)

Apr 27 **2024 SPE GGS Annual Education Expo**
Sponsored by the Society for Plastics Engineers, Golden Gate Section
Noon-3:00 pm, In person, Exponent, 149 Commonwealth Drive, Menlo Park, CA 94025, \$0-\$40, [Registration required](#)

-May 2024 and Beyond -

May 2 **Career Transitions (ACS Virtual Office Hours)**
Sponsored by ACS Career Services
9:00-10:30 am, Online, Free, [Registration required](#)

May 2 **An Evening with Bonnie Garmus, Author of Lessons in Chemistry: A fireside chat moderated by Professor Christine Min Wotipka**
Sponsored by the Stanford Graduate School of Education
5:00-8:00 pm, Held at the Frances C. Arrillaga Alumni Center, 326 Galvez Street, Stanford University, Free, [Registration required](#)

May 6 **The Stanford Energy Seminar: "Reducing GHG for Buildings and Industry Essential to Meeting 2030 and 2050 Targets"**
Carolyn Snyder, Deputy Assistant Secretary for Buildings and Industry, U.S. Department of Energy
Sponsored by the Stanford Precourt Institute for Energy
4:30-5:20 pm, In person and online, Skilling Building, Skilling Auditorium, 494 Lomita Mall, Stanford, CA 94305, Free, [Registration required](#)

STANFORD CHEMISTRY DEPARTMENT UPCOMING EVENTS

Subscribe to [This Week in Chemistry](#) to attend Stanford Chemistry events held in the [Sapp Center](#) that are also available via Zoom. TWIC is published on Fridays.

- April 2024 -

- Apr 4** **Size-Dependent Behavior in Porous Nanocrystals**
Prof. Carl Brozek, University of Oregon
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, [Sapp Center](#)
Lecture Hall 114, Free, [Learn more](#)
- Apr 4** **Magic Show: The Chemistry of Awe**
Magician Robert Strong
Sponsored by Stanford Chemistry Department (Chem 93 Seminar)
7:30-8:30 pm, In person, Stanford University, Sapp Center
Auditorium 111, Free, No registration required
- Apr 5** **Uncommon Bonds in Boron Heterocycles: From Odd-Electron Molecules to Luminescent Materials**
Prof. Robert Gilliard, MIT
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- Apr 10** **Making, Breaking, and Traversing Lipid Membranes in Synthetic and Living Cells**
Prof. Neal Devaraj, UC San Diego
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Auditorium 111, Free, [Learn more](#)
- Apr 11** **Raman Spectroscopic Probes of Photocatalytic Photonic Materials**
Prof. Renee Frontiera, University of Minnesota Twin Cities
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- Apr 12** **Evolving virus-like assemblies in the lab**
Prof. Donald Hilvert, ETH Zurich
Sponsored by Stanford Chemistry Department
1:30-2:30 pm, In person, Stanford University, Sapp Center
Auditorium 111, Free, [Learn more](#)
- Apr 15** **Leveraging experimental data in machine learning models to accelerate the discovery of new materials**
Prof. Heather Kulik, MIT
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- Apr 16** **Attempts to deliver on the promise of natural product synthesis**
Prof. Ryan Shenvi, Scripps Research Institute
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- Apr 17** **Design and evolution of artificial metalloenzymes**
Prof. Donald Hilvert, ETH Zurich
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Auditorium 111, Free, [Learn more](#)
- Apr 18** **A radical approach: Paramagnetic Nickel species in organometallic catalysis and electrocatalysis**
Prof. Liviu Mirica, University of Illinois Urbana-Champaign
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- Apr 24** **Protein-based sensors and tools for studying neuromodulatory systems**
Prof. Wenjing Wang, University of Michigan
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- Apr 25** **Combining Synthetic Chemistry and Biology for Streamlining Access to Complex Molecules**
Prof. Hans Renata, Rice University
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- Apr 26** **Therapeutic Modularity**
Dr. Jay Bradner, Amgen
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Auditorium 111, Free, [Learn more](#)
- Apr 29** **Single-Atom Logic for Skeletal Editing**
Professor Mark Levin, University of Chicago
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)

-May 2024 and Beyond -

- May 1** **Activation and Incorporation of Rare Sugars into Bacterial Surfaces**
Prof. Tania Lupoli, New York University
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- May 2** **Emergent Properties from Dynamicity: Investigating Conformational Control in Bioinorganic Model Systems**
Prof. Lisa Olshansky, University of Illinois Urbana-Champaign
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)
- May 6** **Synthesis of Two-Dimensional Lanthanide Chalcogenides**
Professor Sarah Stoll, Georgetown University
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person, Stanford University, Sapp Center
Lecture Hall 114, Free, [Learn more](#)

Local 2024 Science Fairs

by Susan Hines

On March 14, 2024, our SVACS four-member award team judged a multitude of projects for two awards: a high school SVACS award and the middle school Dave Parker Award. Howard Peters and Mike Lepisto judged the middle school projects while Owen Gooding and Susan Hines judged the high school projects. Of all the incredible 140 chemistry and chemistry-related projects at the fair, we selected 2 high school and 2 middle school students to receive our awards at the April 7, 2024 award ceremonies at the Heritage Theater in Campbell. Since the identity of our much deserved winners is kept secret until the award ceremony, you'll have to stay tuned to find out who they are in the May SVACS newsletter! Whether or not students were selected for the SVACS awards, other organizations'



SVACS-Sponsored Award Judging Team at the Synopsis Championship Science Fair: Owen Gooding, Susan Hines, Mike Lepisto, Howard Peters

sponsored awards, or the Synopsis Championship's category or Grand Prize awards, the participating students are *all* winners.

Numerous SVACS members participated in the science fair as organizers and in category-judging, so there's plenty of opportunity to join us at a future science fair for a number of roles in support of the next generation of scientists.

Kudos to Synopsis and to the Santa Clara County Synopsis Championship Science Fair's board of directors for making our regional competition the wonderful STEM event it is.



Call for Nominations Abraham Ottenberg Service Award Silicon Valley ACS Local Section

Deadline: June 1, 2024

The *Ottenberg Award* is presented annually to a member of our local section for outstanding service to the section.

Nominations include the nominee's biography, description of the service(s) for which the member is nominated, and a discussion or evaluation of the service to be recognized by the award. Nominations are not retained for subsequent years, but re-nominations are accepted for consideration. Previous recipients are not eligible to receive it again.

Please send your nomination before June 1, 2024, by e-mail to PFrusch@aol.com or by fax (650-961-8120) or by postal mail to:

Chair, Ottenberg Award Selection Committee
Silicon Valley Section
American Chemical Society
P.O. Box 395, Palo Alto, CA 94302-0395



Matt Greaney (right) Wins 2023 Ottenberg Award. Peter Rusch (left), Chair of Ottenberg Award Committee, presented the award at the Annual Picnic and Awards event on July 8, 2023.

Call for Nominations

Shirley B. Radding Award

Deadline: May 1, 2024

The *Radding Award* was established in 1994 by our ACS local section to recognize demonstrated, dedicated, unselfish leadership, service and significant contributions, over a sustained period of time, to industrial, academic, or applied chemistry and to the American Chemical Society at local, regional or national levels. The award is named for Shirley B. Radding, a charter member and long-time supporter of this Section. It consists of an engraved plaque and a check for \$1000.

Award recipients selected on the following criteria:

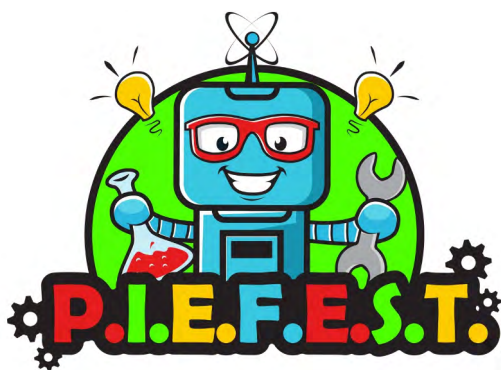
- Member of the American Chemical Society for more than 20 years
- Demonstrated dedicated and unselfish service to ACS members over a sustained period of time
- Provided leadership through elected and appointed ACS positions at local, regional, and national levels
- Made significant contributions to industrial, academic, or applied chemistry

Please submit nomination dossier with CV and two letters of recommendation by May 1, 2024, to:

Chair, Radding Award Committee

Silicon Valley Section, American Chemical Society, P.O. Box 395, Palo Alto, CA 94302-0395
or email Natalie McClure at nmclure@drugregulatoryaffairs.com

Past recipients:	1994 Shirley B. Radding	1995 Agnes Ann Green	1996 John C. "Jack" Riley
	1997 Howard M. Peters	1998 Alan C. Nixon	1999 Valerie J. Kuck
	2000 Halley A. Merrell	2001 Norman A. LeBel	2002 Paul H. L. Walter
	2003 Jean'ne M. Shreeve	2004 Maureen Chan	2005 Glenn Fuller
	2006 Janan Hayes	2007 Merle Eiss	2008 Dorothy Phillips
	2009 Bryan Balazs	2010 Herb Silber	2011 Carol A. Duane
	2012 Bonnie A. Charpentier	2013 Mamie W. Moy	2014 Lee H. Latimer
	2015 Connie Murphy	2016 Sally Peters	2017 Gary D. Christian
	2018 Peter Rusch	2019 Mary Virginia Orna	2020 Thomas R. Beattie
	2021 Natalie McClure	2022 Marinda Li Wu	



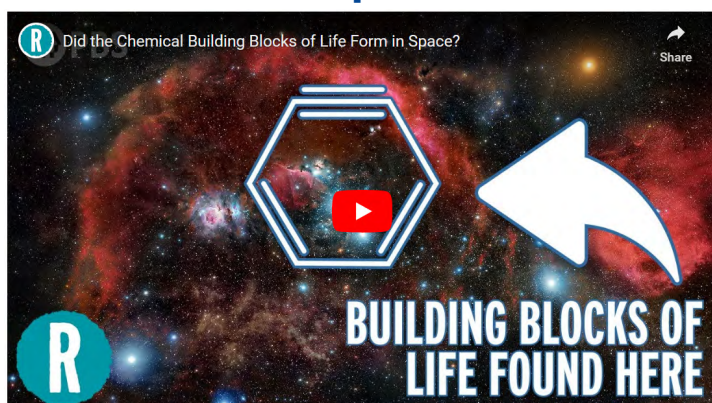
P.I.E.F.E.S.T. is a nonprofit organization created by Pacific Islander parents to celebrate STEM in the SF Bay community.

In the photos: SVACS volunteers engage enthusiastic participants in hands-on chemistry at the March 9, 2024 P.I.E.F.E.S.T. in Redwood City.

P.I.E.F.E.S.T. 2024 Picture Album



Did the Chemical Building Blocks of Life Form in Space?



[Watch video on YouTube](#) | [Read associated article](#)

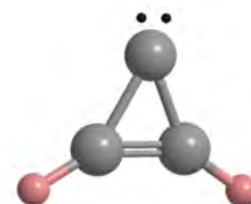
“For years scientists thought complex molecules could only be formed on Earth. But what if we did find these kinds of molecules out in space? What if they could be formed not just in and around biology but also in cold, dark corners of the universe? Scientists have wondered if there might have been early seeds for life on earth, or even a stockpile of molecular building blocks deposited onto our planet and others. In 2023, we found ortho-benzyne in molecular clouds, a simple molecule that helps to create more complex molecules.”

Source: [Reactions Science Videos - Uncover the Chemistry in Everyday Life](#) posted, March 6, 2024

CHEMISTRY

Quiz

I'm unstable on Earth, but you can find me in space. What molecule am I?



Answer

Interested in serving on an ACS National Committee?

ACS National Committees need you! ACS welcomes all members on Standard and Premium packages to serve on national committees. Learn more about how ACS Committees fit into the Society's governance structure and how YOU can become involved.

ACS National Committees have an important role in representing the perspective of our core membership. By joining a Committee, you will benefit from opportunities in career-building and networking. Committees contribute to Governance decisions in specific areas of interest such as:

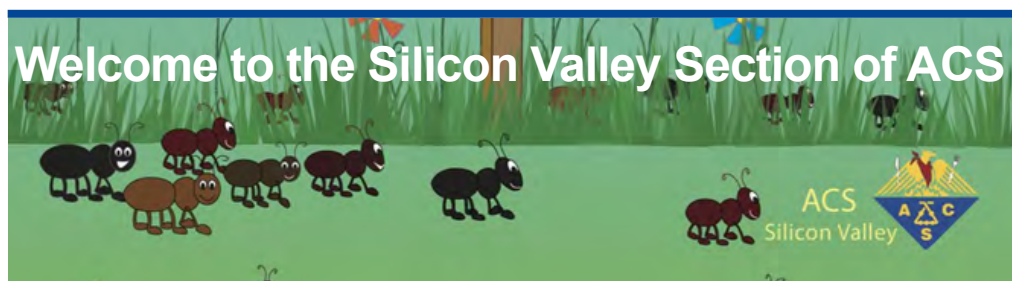
- **Chemical Safety**
- **National Historic Chemical Landmarks**
- **Chemists with Disabilities**
- **Patents and Related Matters**
- **Community Activities**
- **Professional and Member Relations**
- **Economic and Professional Affairs**
- **Publications**
- **Education**
- **Science**
- **Environment and Sustainability**
- **Senior Chemists**
- **Ethics**
- **Technician Affairs**
- **International Activities**
- **Women Chemists**
- **Minority Affairs**
- **Younger Chemists**

Learn more:

- **All ACS National Committees and frequently asked questions.**
- **Information Sheets and expertise required** for each committee.
- **Committee preferences and the appointment process, committee structure, and committee resources.**
- **Volunteer Reimbursement Program** for Non-Councilors serving on an ACS National Committee.

ACS Members interested in serving on an ACS National Committee should submit their committee assignment preferences to the [online committee preference form](#) between March 1st and July 1st (login required).

Please submit the committee preference form only if you are committed to attending and actively participating in committee meetings either virtually or in person. Please note that your ACS membership must be in good standing in order to complete your committee preference form.



Each month, our Silicon Valley local ACS section receives a spreadsheet from national ACS with the names of members new to our section. The members are either new to ACS, have transferred in from other areas, or are the newest members - students. As a welcoming gesture, the SVACS Executive Committee offers new members free attendance at a catered SVACS event. Come join us at our in-person gatherings! To register as our guest for a catered event, [contact us](#) directly to receive complimentary admission for you and a friend.

We hope you will also join us for an outreach event, like judging a science fair, proctoring the high school Chemistry Olympiad or participating in a National Chemistry Week hands-on experiment event. The local section is a volunteer organization. Attend an event, volunteer to help, and get to know your local fellow chemists.

New SVACS Members

Ann Akey
John Blessing
Andrew Boldi
Haley Burtch
Minjeong Cha
Steven Chavez
Zhihengyu Chen
Ricardo Da Luz
Yassin Elbatrawi
Nicholas Fiore
John Gallagher
Gabriel Hale
Eliza Herrero
Ben Janda

Bo Li
Natalie Jing Ma
William Ozawa
Akanksha Pabari
Najeeb Punnakayathil
Megan Qualls
Jazlyn A. Quintana
Shreya Ray
Jackson Rodgers
Paul Rosa
Lucas Sanchez
Devin Schinski
Vishal Siramshetty
Netra Telang

Jack Alexander Terrett
Hendri Tjandra
Joshua Tsang
Camille Usubelli
Edwin G. Vega
Shoshana Williams
Grace Woods
Song Xia
Hai Yang
Renee Zhao
Yan Zhou
Yilong Zhou
Clara Zwanziger

Brief Summary of the Spring 2024 ACS Council Meeting

ACS Meeting Attendance: The ACS Spring 2024 meeting was held in New Orleans as a hybrid meeting from March 17 – 21. As of March 19, there were 14,368 registrations: 13,122 in-person and 1,246 online.

Actions Approved by Council

- **Division name change:** Changing the ACS Division of Biological Chemistry's (BIOL) name to the ACS Division of Biochemistry and Chemical Biology (BIOL), effective January 1, 2025.
- **Distribution formula modified for ACS Technical Division funding:** An amendment was approved that will allow a greater amount of funding to be distributed to ACS Technical Divisions.
- **Creation of two new International Chemical Chapters:** Subject to approval by the ACS Board of Directors, creating Chapters for Egypt and Guangdong, China.
- **ACS Membership Dues and Benefits.** ACS 2025 Schedule of Membership Dues and Benefits was approved.

Revised Bylaws certified since Fall 2023 Meeting: Bylaws for five technical divisions (Colloid and Surface Chemistry, Biological Chemistry, Analytical Chemistry, Industrial and Engineering Chemistry, and Environmental Chemistry), plus four Local Sections and two International Chemical Sciences Chapters were certified by the ACS Committee on constitution and Bylaws.

Reports from ACS Officers: Reports from the President, President-Elect, Immediate Past President, Chair of Board of Directors, and Chief Executive Officer are available on pages 43-56 of the [Council Agenda book](#).

ACS President-Elect Candidates for 2025: Rigoberto Hernandez, Prof. at Johns Hopkins University and Laura Sremaniak, Prof. at North Carolina State University will join petition candidate Mukund Chorghade, Chief Scientific Officer of THINQ Pharma and any additional petition candidates to stand for election in the fall 2024 national election. The winner will serve a 3-year term on the board as a member of the presidential succession. See "[ACS announces candidates for 2024 fall elections](#)" that was published in C&EN on March 29, 2024, and pages 23-31 of the [Council Agenda book](#) for Hernandez' and Sremaniak's statements and qualifications. Statements for all candidates will be published later in C&EN.

Candidates for Directors-at-Large: In October, Council members will vote to select one 2025-2027 Director-at-Large from these candidates: Christopher J. Bannochie, Natalie A. LaFranzo, and Sergio C. Nanita plus any petition candidates.

ACS Secretary Retires: After 28 years of service, a resolution in honor of retiring ACS Secretary and General Counsel, Flint H. Lewis, was passed by the Board and the Council. Tokë Vandervoort, ACS' new General Council joined on March 4th and a

search is underway to find a new Secretary.

150th Anniversary: Founded in 1876, ACS will celebrate its 150th anniversary in 2026.

[Learn more about ACS Council and see previous agendas.](#)

CSA Trust: Call for Grant Applications from Younger Chemists

Deadline: April 12, 2024



Chemical Structure Association Trust

Recent Grant Recipients



<https://csa-trust.org/awards-and-grants/>

The Chemical Structure Association (CSA) Trust is an internationally recognized organization established to promote the critical importance of chemical information to advances in chemical research. In support of its charter, the Trust has created a Grant Program and is now inviting the submission of grant applications for 2024.

Deadline for Applications:

The deadline for the 2024 Grant applications is April 12, 2024. Successful applicants will be notified no later than May 21, 2024.

Purpose of the Grants:

The Grant Program has been created to provide funding for the career development of young researchers who have demonstrated excellence in their education, research or development activities that are related to the systems and methods used to store, process, and retrieve information about chemical structures, reactions and compounds. One or more Grants will be awarded annually up to a total combined maximum of ten thousand U.S. dollars (\$10,000). Grantees have the option of payments being made in U.S. dollars or in British Pounds equivalent to the U.S. dollar amount. Grants are awarded for specific purposes, and within one year each grantee is required to submit a brief written report detailing how the grant funds were allocated. Grantees are also requested to recognize the support of the Trust in any paper or presentation that is given because of that support.

Who is Eligible?

Applicant(s) in the early stages of their career who have demonstrated excellence in their chemical information related research and who are developing careers that have the potential to have a positive impact on the utility of chemical information relevant to chemical structures, reactions, and compounds, are invited to submit applications. Applicants must be within five years of obtaining their PhD. Note that proposals from those who have not received a Grant in the past will be given preference. While the primary focus of the Grant Program is the career development of young researchers, additional bursaries may be made available at the discretion of the Trust. All requests must follow the application procedures and will be weighed against the same criteria.

Which Activities are Eligible?

Grants may be awarded to acquire the experience and education necessary to support research activities, e.g., for travel to collaborate with research groups, to attend a conference relevant to one's area of research (including the presentation of an already-accepted research paper), to gain access to special computational facilities, or to acquire unique research techniques in support of one's research. Grants will not be given for activities completed prior to the grant award date. Funding for 2024 will not be extended past December 31, 2024.

[Learn more and apply](#)

Society of Plastics Engineers Golden Gate Section (SPE GGS)

Upcoming Events for April 2024

The **SPE Golden Gate Section** has been Northern California's plastics support group, networking hub and educator since the 1940s.

SPE GGS Networking event

Thursday, April 4, 6pm – 8pm
2520 Augustine Drive Santa Clara
Free, [RSVP here](#)

Join an evening of networking and connecting with professionals in the plastics industry, an opportunity to meet new people, exchange ideas, and build relationships. At the SPE GGS Networking

Event, you'll mingle with like-minded individuals, share experiences, and learn from each other. Whether you're a seasoned professional or just starting out in the industry, this event is perfect for making valuable connections.

SPE GGS Annual Education Expo

Saturday, April 27th 12-3 pm
Exponent, 149 Commonwealth Drive Menlo Park
\$0-\$40, [RSVP here](#)

This Expo is an annual event where students active in Bay Area university SPE chapters (SJSU

and Chico State) present their plastics-related projects, are awarded scholarships, and interact with industry professionals. This event includes a networking lunch, overview of university programs, poster presentations and awards!

Congratulations to the 2024 CAS Future Leaders



The program provides early-career scientists with leadership training and connections to peers from around the world

CAS, a division of the American Chemical Society specializing in scientific knowledge management, is proud to announce the **2024 CAS Future Leaders**. These exceptional early-career scientists were selected from a large pool of global candidates who applied for a spot in the program known as one of the best leadership learning experiences in the world of science.

The 2024 selectees are a diverse group, hailing from 13 countries, working at 33 graduate or post-doctoral programs, and specializing in scientific disciplines that span computer-aided drug design, atmospheric/environmental chemistry, sustainable polymers, and cancer diagnostics.

"CAS Future Leaders offers early-career scientists the opportunity to participate in leadership and storytelling seminars, learn from industry thought leaders how to present their ideas in an impactful manner, engage in scientific discourse, and develop connections with peer scientists from around the world," said Peter Carlton, CAS Future Leaders program director.

Participants in the program, which will take place in August, will also get a behind-the-scenes look into how CAS connects the world's science. They will present their research at ACS Fall 2024 in Denver, Colorado, and receive a three-year ACS membership as well."

Read the full press release, CAS Announces 2024 Selections for Prestigious CAS Future Leaders Program (posted March 25, 2024).

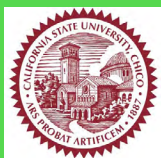
Society of Plastics Engineers Golden Gate Section

Presents



Student Research Areas:

- Polymer Synthesis/Development
- Materials Characterization
- Polymer/Plastic Processing
- Polymer Composite Manufacturing
- 3D Printing
- Biomaterial Engineering
- Plastic Part Modeling
- Process Simulation/Development
- Plastic Mold Design



San José State University

The overarching goal of the SJSU student chapter is to provide materials engineering students the opportunity to collaborate and learn from those already working in the industry to better prepare themselves for their own professional careers.

Cal State University Chico

The chapter provides an opportunity for students to explore the material, manufacturing, and product aspects of the plastics and composites industry. It provides exposure to and contact with local plastics manufacturing facilities, participation in team projects, and establishment of relationships with industrial, educational, and professional organizations.

Education EXPO

Education Expo is an annual event where students active in Bay Area university SPE chapters present their plastics-related projects, are awarded scholarships, and network with industry professionals.

The objective of the SPE Golden Gate Section is to promote STEM education and help develop future scientists and engineers.

Hosted by: Exponent

Saturday, April 27, 2024

Time: 12:00p.m.- 3:00 p.m.

Location: 149 Commonwealth Dr.,
Menlo Park CA

Scan QR to Register



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The 12 Principles of
GREEN CHEMISTRY

Green chemistry is an approach to chemistry that aims to maximize efficiency and minimize hazardous effects on human health and the environment. While no reaction can be perfectly 'green', the overall negative impact of chemistry research and the chemical industry can be reduced by implementing the 12 Principles of Green Chemistry wherever possible.

- 1. WASTE PREVENTION**
Prioritize the prevention of waste, rather than cleaning up and treating waste after it has been created. Plan ahead to minimize waste at every step.
- 2. ATOM ECONOMY**
Reduce waste at the molecular level by maximizing the number of atoms from all reagents that are incorporated into the final product. Use atom economy to evaluate reaction efficiency.
- 3. LESS HAZARDOUS CHEMICAL SYNTHESIS**
Design chemical reactions and synthetic routes to be as safe as possible. Consider the hazards of all substances handled during the reaction, including waste.
- 4. DESIGNING SAFER CHEMICALS**
Minimize toxicity directly by molecular design. Predict and evaluate aspects such as physical properties, toxicity, and environmental fate throughout the design process.
- 5. SAFER SOLVENTS & AUXILIARIES**
Choose the safest solvent available for any given step. Minimize the total amount of solvents and auxiliary substances used, as these make up a large percentage of the total waste created.
- 6. DESIGN FOR ENERGY EFFICIENCY**
Choose the least energy-intensive chemical route. Avoid heating and cooling, as well as pressurized and vacuum conditions (i.e. ambient temperature & pressure are optimal).
- 7. USE OF RENEWABLE FEEDSTOCKS**
Use chemicals which are made from renewable (i.e. plant-based) sources, rather than other, equivalent chemicals originating from petrochemical sources.
- 8. REDUCE DERIVATIVES**
Minimize the use of temporary derivatives such as protecting groups. Avoid derivatives to reduce reaction steps, resources required, and waste created.
- 9. CATALYSIS**
Use catalytic instead of stoichiometric reagents in reactions. Choose catalysts to help increase selectivity, minimize waste, and reduce reaction times and energy demands.
- 10. DESIGN FOR DEGRADATION**
Design chemicals that degrade and can be discarded easily. Ensure that both chemicals and their degradation products are not toxic, bioaccumulative, or environmentally persistent.
- 11. REAL-TIME POLLUTION PREVENTION**
Monitor chemical reactions in real-time as they occur to prevent the formation and release of any potentially hazardous and polluting substances.
- 12. SAFER CHEMISTRY FOR ACCIDENT PREVENTION**
Choose and develop chemical procedures that are safer and inherently minimize the risk of accidents. Know the possible risks and assess them beforehand.

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	2024-2026	Karan Dikshit	2024-2026	Howard Peters
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