

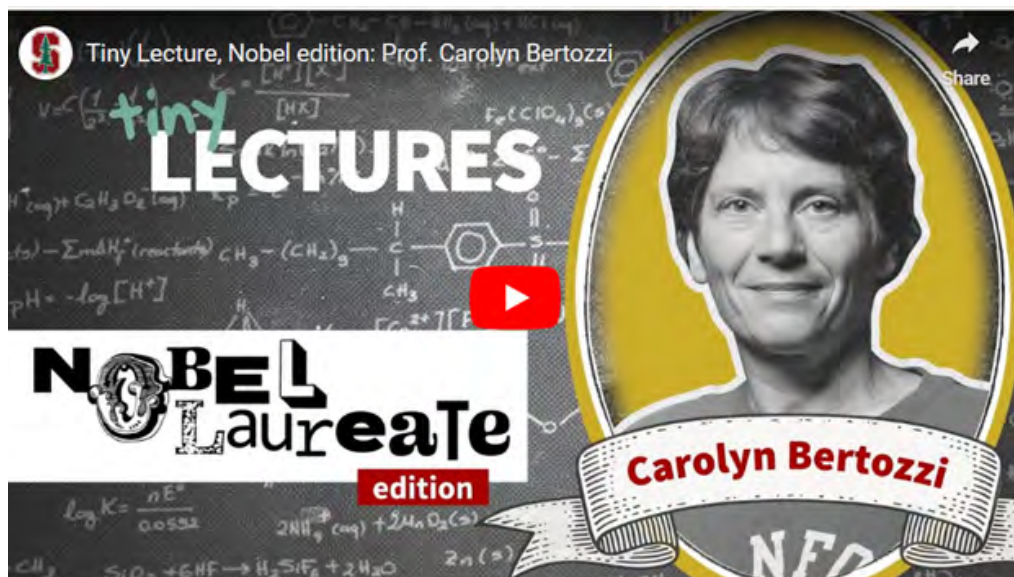
SILICON VALLEY CHEMIST



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Congratulations Silicon Valley ACS Member and Nobel Laureate Carolyn Bertozzi!



Watch video (1:21 minute)

Stanford's Carolyn Bertozzi wins Nobel in chemistry (Stanford News, October 5, 2022)

The 2022 Nobel Prize in Chemistry Goes to Carolyn R. Bertozzi, Morten Meldal, and K. Barry Sharpless (ACS Axial, October 5, 2022)

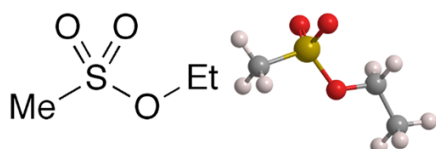
The Nobel Prize in Chemistry 2022 (from The Nobel Prize website)

Women Who Changed the World: Nobel Prize Awarded Women from Nobel Media

CHEMISTRY

Quiz

You really don't want to use me in the lab. What molecule am I?



Answer

Chair's Message

Stephanie Benight

I'm pleased to announce that we are hosting *our first in-person event* in a long time on Thursday, November 3, 2022 with a dinner and speaker at Michael's at Shoreline in Mountain View. Speaker Dr. Fatma Kaplan, CEO and co-founder of *Pheronym*, presents her research and start-up plans in "Nematode Pheromone Extracts as Boosters for Controlling Agricultural Pests in the Soil." Networking and wine start at 6pm, dinner at 7pm, and the presentation at 8pm.

This month the third *annual Bay Area Chemistry Symposium (BACS)* takes place



November 10, 2022. Started in 2019 to connect local students and academics with scientists from the pharmaceutical and biotechnology industries, BACS covers themes of synthesis and design in medicinal, process, biological, and computational chemistry. The one-day symposium features keynote addresses from professors and industrial chemists in the SF Bay area and showcases research talks from graduate students, post-doctoral fellows, and industry researchers.

Evidence of success is abundant with BACS

continued on next page

Chair's Message, continued from previous page

registration nearly reaching capacity each year. Last month BACS received the **Partners for Progress and Prosperity (P3) Award** at the 2022 Western Regional Meeting in Las Vegas. This award is in recognition of successful and exemplary partnerships between industry, academia, government, small business, local sections and other organizations that result in impactful outcomes. Congratulations **BACS organizers!**

The **SVACS Teacher-Scholar Award** spotlights the impact of community college science teachers. The award recognizes not only outstanding individuals, but also the integral role that community colleges play in the California higher education system. The deadline for nominations approaches - December 1, 2022. I encourage all readers to identify and **nominate** worthy community college faculty.

As always, reach out to me with feedback or questions at chair@siliconvalleyacs.org. We value your input.

Silicon Valley ACS Teacher-Scholar Award

Call for nominations of community college educators

Deadline: December 1, 2022

The Silicon Valley ACS Teacher-Scholar Award honors community college faculty who demonstrate excellence in teaching, mentoring and scholarship or who make impactful contributions to their communities through outstanding leadership and service.

The annual SVACS Teacher-Scholar Award spotlights the impactful contribution that California community colleges make to furthering the future of chemistry by supporting our next generation of scientists. Almost 51 percent of graduates of the California State University system and 29 percent of the University of California system transferred from a California community college. The majority of these students come from economically disadvantaged backgrounds, for whom effective instruction is essential.

Initiated in 2008, the SVACS Teacher-Scholar Award was the first to offer an award specifically to community college science educators. The rarity of an award in this category and the abundance of qualified candidates catalyzed our expanding eligibility beyond our immediate region to include chemistry faculty from any of the 116 California community colleges. We are soliciting nominations through December 1, 2022 and encourage all readers to identify and nominate worthy community college faculty.

Further information can be found on the [SVACS Teacher-Scholar Award page](#).



Merck Research Award: Application Deadline is December 1, 2022

Purpose: Sponsored by Merck and the ACS Women Chemists Committee (WCC), the purpose of this award is to recognize eight individuals* who will present their research at an awards symposium held during the ACS Fall Meeting.

*This includes women (both cis and trans) and persons assigned female at birth (AFAB). For more information regarding the gender inclusive language used in this document, please visit the ACS Inclusivity Style Guide.

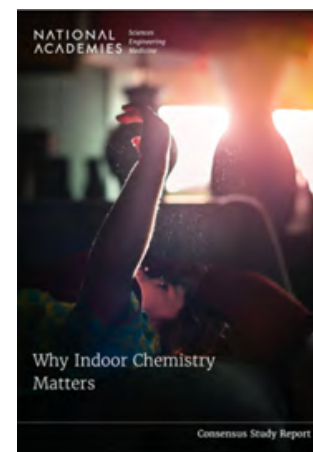
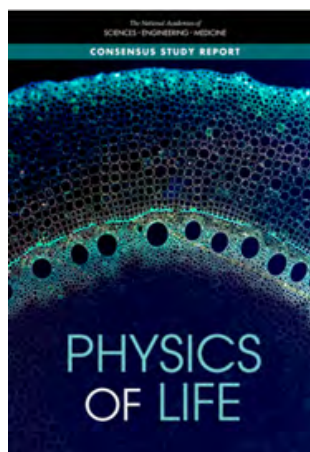
Description: Awardees will receive a \$1,500 stipend to cover ACS Fall Meeting expenses. They will present their research at a WCC/Merck half-day symposium and be recognized at the Awards Symposium Luncheon and the WCC Luncheon.

Eligibility: Individuals* in their third and fourth year of graduate school with a research focus in one or more of the following - Organic, Inorganic, Medicinal, Analytical, Chemical Biology, Computational or Structural Chemistry, and related disciplines. Open to U.S. citizens (studying anywhere) and non-U.S. citizens attending a graduate program in the U.S. or Canada. Those who have received a prior award under this program are ineligible.

How to apply

National Academies of Sciences, Engineering, and Medicine

3 New eBooks – Read Online or Download for Free



National Academies of Sciences, Engineering, and Medicine. 2022. *The Importance of Chemical Research to the U.S. Economy*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26568>

National Academies of Sciences, Engineering, and Medicine. 2022. *Physics of Life*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26403>

National Academies of Sciences, Engineering, and Medicine. 2022. *Why Indoor Chemistry Matters*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26228>

CALENDAR OF EVENTS

- November 2022 -

- Nov 3** **Pheromone Extracts Control Soil Agricultural Pests**
Dr. Fatma Kaplan, CEO Pheronym
Sponsored by Silicon Valley ACS
6pm Social Hour, 7pm Dinner, 8pm Seminar
In-person and hybrid event: Michael's at Shoreline, 2960 N. Shoreline Blvd., Mountain View, CA
For more details about attending virtually, see event on the [SVACS webpage](#).
- Nov 3** **Python for Chemists**
Kiyoto Aramis Tanemura and Diego Sierra-Costa, Co-Authors, Python for Chemists (an ACS in Focus book)
Sponsored by ACS Publications
9-10am, Online via Zoom, Free, [Registration required](#)
- Nov 8** **Hidden Polymers – Tips for Finding them Using CAS SciFinder**
Sponsored by CAS
10-11pm, Online via Zoom, Free, [Registration required](#)
- Nov 9** **Emerging Market and Science Trends in Sustainable Fertilizers Production**
Sponsored by CAS
6-7am, Online via Zoom, Free, [Registration required](#)
- Nov 9** **Bay of Life: From Wind to Whales**
Frans Lanting and Chris Eckstrom, National Geographic photographers-writers
Sponsored by Stanford Woods Institute for the Environment
7:30-9:00pm, Frances C. Arrillaga Alumni Center, McCaw Hall, 326 Galvez Street, Stanford
Free, [Registration required](#)
- Nov 10** **3rd Annual Bay Area Chemistry Symposium (BACS)**
Sponsored by the ACS California and [ACS Silicon Valley Sections](#) plus Merck, Genentech, Gilead, Novartis. Maze, AbbVie, and Cytokinetics
Pauley Ballroom, UC-Berkeley, 2495 Bancroft Way Berkeley, CA
8am-5pm, [Learn more](#)
- Nov 12** **Empowering Women Scientists: In Your Past, Present, And Future**
[Lucinda Jackson](#), Author, Business Executive, Scientist
Sponsored by the Women Chemist Committee (WCC) of the ACS California Section
10:30am-Noon, Online via Zoom, Free, [Registration required](#) (Reg. deadline: Nov.10th noon)
- Nov 13** **RAMP in the Research Lab (ACS Chemical Health & Safety Division Peer-Led Workshop)**
Hossain Shadman and Kris Elbein, University of Minnesota
10am-1pm, Online via Zoom, \$25 per participant,
[Registration required](#)
- Nov 16** **Award-Winning Science: Exploring the Work of Recent Nobel Prizes Winners in CAS SciFinder[®]**
Sponsored by CAS
Offered three times: 1-2am, 7-8am, 1-2pm. Online via Zoom, Free,
[Registration required](#)
- Nov 16** **Stanford University Mass Spectrometry's 2022 Research Applications Symposium**
Sponsored by Stanford University Mass Spectrometry
9am-Noon, Online via Zoom, Free, [Learn more](#), [Registration required](#)
- Nov 16** **More Than an Oil Change: Industrial Lubricants and Electric Vehicles**
Neil Canter, Tech Advisor, Society of Tribologists and Lubrication Engineers (STLE)
Sponsored by ACS Webinars and ACS Green Chemistry Institute
11am-Noon, Online via Zoom, Free, [Registration required](#)
- Nov 17** **Meet Chemistry Superstars: Creating Tomorrow's Technologies**
Prof. Zhenan Bao, Stanford University, and Prof. Peidong Yang, UC Berkeley
Sponsored by Chinese American Chemical Society, Northern California Chapter
4:15pm Check-in, 4:30-5:30 Program, 5:30pm Reception, All are welcome, seating is limited. Free.
Stanford University, Main Quad Building 200 (450 Jane Stanford Way), Room 205 (free campus parking after 4pm) [Registration required](#)
- Nov 18** **Chemistry Tools to Help Achieve Zero World Hunger**
Michael Appell, U.S. Department of Agriculture; Omowunmi "Wunmi" Sadik, Chemistry and Environmental Sciences Dept., New Jersey Institutes of Technology
Sponsored by ACS Webinars, ACS Committee on Science, ACS Agricultural & Food Chemistry Division
10:00am-11:30am, Online via Zoom, Free, [Registration required](#)
- Nov 19** **Kid Makers: Pop Up Chemistry**
Sponsored by Redwood City Public Library (RCPL) and Silicon Valley ACS
3-4pm, Free, Held in the RCPL Downtown Library's Makerspace area, 1044 Middlefield Road, Redwood City, CA 94063. [Learn more](#)
- Nov 22** **Metals, Alloys, and Salts – Mining a Wealth of Inorganic Chemistry With CAS SciFinder[®]**
Sponsored by CAS
10-11pm, Online via Zoom, Free, [Registration required](#)

- December 2022 -

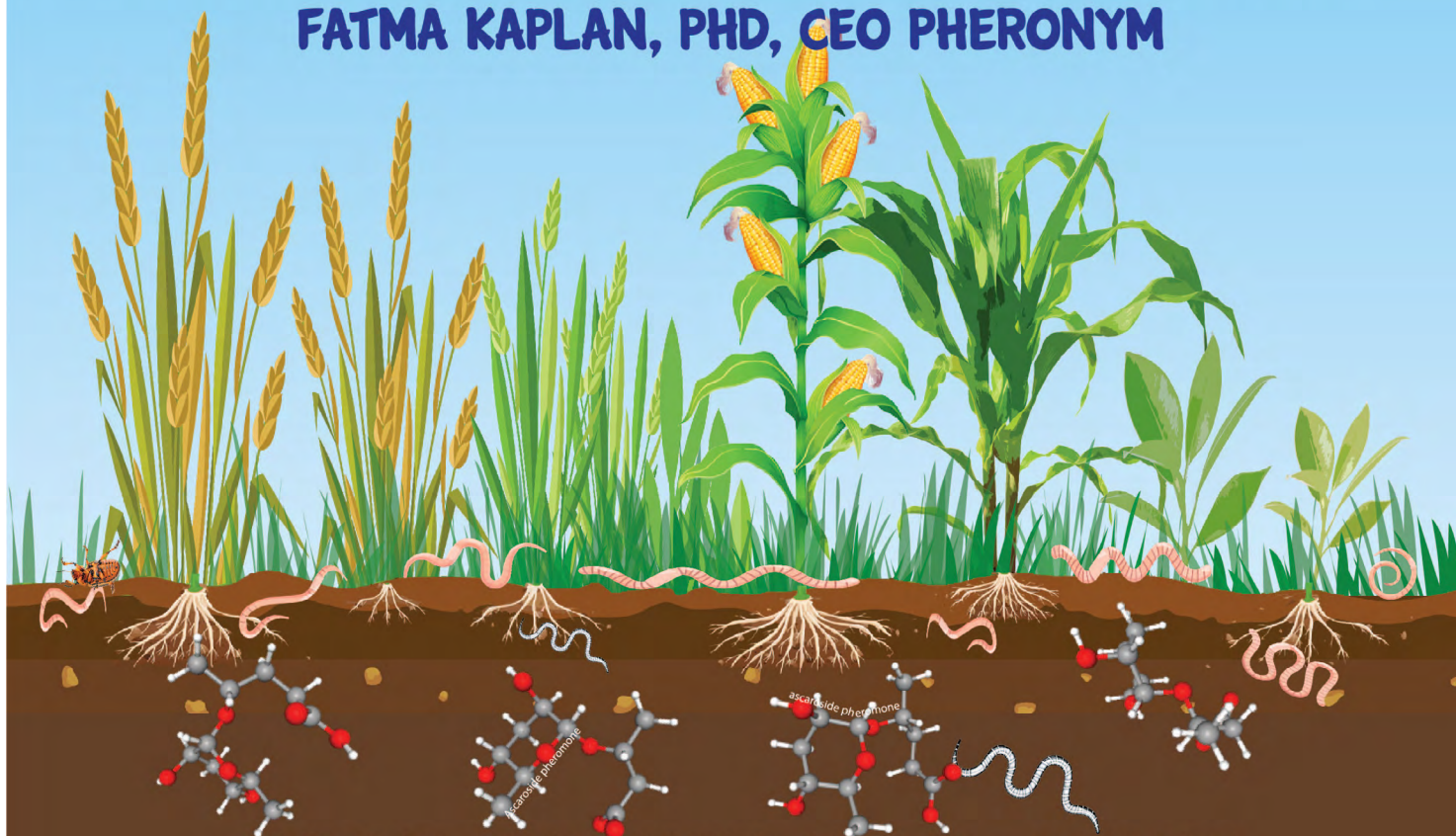
- Dec 6** **Sustainable Polymer Designs via Robust Dynamic Covalent Bonds**
Prof. Zhibin Guan, Chemistry Dept., UC Irvine
Sponsored by the Golden Gate Polymer Forum (GGPF)
6:30 PM Online via Zoom, Registration required.
[Learn more and register](#)



**Our first in-person dinner & seminar
at the special 'Welcome back' price of \$5!**

NEMATODE PHEROMONE EXTRACTS FOR CONTROLLING AGRICULTURAL PESTS IN THE SOIL

FATMA KAPLAN, PHD, CEO PHERONYM



THURSDAY, 03 NOVEMBER 2022 | 6 - 9 PM PDT

MICHAEL'S AT SHORELINE, 2960 N. SHORELINE BLVD., MOUNTAIN VIEW

6 PM SOCIAL HOUR, 7 PM DINNER, 8 PM SEMINAR

REGISTRATION REQUIRED



BAY AREA CHEMISTRY SYMPOSIUM
connecting industry + academia

an ACS
sponsored
event



Please join us for

The 3rd annual **Bay Area Chemistry Symposium**, an ACS sponsored symposium for Synthesis and Design in Medicinal & Process Chemistry



WHEN
WHERE
SUBMIT

Thursday, November 10th, 2022
Pauley Ballroom, UC Berkeley
Abstracts by Friday, Sept 30th

This symposium, unique in the Bay, will provide an ideal forum for students, postdocs, and industrial chemists to meet and exchange ideas covering themes in chemical biology, synthesis, and computational chemistry. The 2022 symposium will feature keynote seminars from leading local academics & industrial chemists, as well as short talks from students, postdocs, and industry researchers. A lively poster session promises a much-anticipated return to networking with local chemists through this opportunity to learn about cutting-edge chemistry across the Bay Area's outstanding institutions. Visit our website for more details!

OUR 2022
KEYNOTE
ACADEMIC
SPEAKERS



Prof. Tom Maimone
UC Berkeley



Prof. Annaliese Franz
UC Davis



Prof. Ian Seiple
UCSF

The BACS is generously
supported by our

INDUSTRY
SPONSORS



For more information on sponsorship & registration, visit: bayareachemistrysymposium.com

ACS Western Regional Meeting 2022 Award Winners



Excellence in High School Teaching Award: **Kim Ngo (Corona Del Mar High School in Newport Beach, CA)**
Stanley C Israel Award: **Pfizer- La Jolla Academic Industrial Relations (AIR) Diversity Research Fellowship Committee**
Partners for Progress and Prosperity Regional Award: **Bay Area Chemistry Symposium (BACS)**

E. Ann Nalley Award: **Sally B. Peters**

Source: <https://www.wrm2022.com/awards.html>

Partners for Progress and Prosperity Regional Award to The Bay Area Chemistry Symposium (BACS)

Organizers: Patrick Lee, California ACS Section
Matthew Greaney, Silicon Valley ACS Section
Lauren Holder, Novartis

The Bay Area Chemistry Symposium (BACS) is the winner of the WRM 2022 Partners for Progress and Prosperity Regional Award. The SF Bay area is rich in chemical-based industries and academic institutions and includes 2 ACS local sections. The forefront of planning this event was addressing the question "What is in it for me to join the ACS?" The answer was to show attendees the value of COMMUNITY in empowering chemists for professional development and for addressing societal issues. The partnership created an annual event to bring together chemistry professionals & professionals-in-the-making for a day of visionary keynote talks, grad student & post-doc presentations & posters, and networking.

The Silicon Valley and California Local ACS Sections initiated and hosted the first symposium in 2019. A committee composed of 12 individuals from industry, academia and ACS local sections met frequently to organize the event. Industrial partners such as Merck Research Laboratories, Gilead, Novartis, Merck, AbbVie, Genentech, Millipore Sigma provided meeting space and generous financial support. Attendance at the first (2019) event reached capacity at 200 and included attendees from 8 universities (principally at the graduate & post-doc level) and 31 companies, from start-ups to major industrial research labs. The strength of this partnership is illustrated by the success of first two events. The third event is scheduled for November 10, 2022 at UC Berkeley.

2022 E. Ann Nalley Western Region Award for Volunteer Service to the American Chemical Society

Sally B. Peters

Sally B. Peters is the 2022 recipient of the Western Regional E. Ann Nalley Award. The E. Ann Nalley Award was established in 2006 to recognize the volunteer efforts of individuals who have served the American Chemical Society, contributing significantly to the goals and objectives of the Society through their regional activities. Sally Peters has been active in ACS for more than 30 years and has served ACS at the national, division, regional and local section levels. At the national level, Sally has served on the Meetings and Expositions Committee (1996-2002), Committee for Local Section Activities (2004-2010), Committee on Community Affairs (2011-2016) and the Council Policy Committee (2017-present). Sally was a founding member of the Division of Chemistry and the Law (CHAL). Sally and her husband, Howard, were the first recipients of a new CHAL award, the Howard and Sally Peters Award, which recognizes significant contributions and involvement in alternative careers in chemistry. Sally has been chair, councilor, and mentor for new section members for the Silicon Valley Section. She has used her leadership and organizational skills to work tirelessly on all the details that are required to keep a local section active and successful. This is particularly evident in the years she served the Bay area ACS community by leading the Chemistry Olympiad that sent many of our local high school students to national and international competitions.

Note: Because Sally was unable to attend the ACS Western Regional Meeting to receive her award, we will be celebrating this recognition with her at a future Silicon Valley ACS event.



2023 ACS President Judy Giordan and BACS co-organizer Lauren Holder



WRM 2022 co-organizer Natalie McClure and BACS co-organizer Lauren Holder



Ann Nalley and her namesake award announcement



Sally Peters

California Section
American Chemical Society



All are welcome
Saturday, November 12, 2022

Title

Empowering Women Scientists:
In Your Past, Present, and
Future

Time

10:30 – 11:00 am
Chatting

11:00 am
Talk and Discussion

Reservation

Please visit the CalACS website
www.calacs.org to register for this
meeting or use [Brown Paper Tickets](#).

RSVP!

Please register before Thursday,
November 10, 2022, 12 noon. Your
email address is needed to send the
ZOOM link, which will be shared with
attendees on or before the day of the
event via [Brown Paper Tickets](#).

Cost

Free!

About the Speaker



Lucinda Jackson, PhD

magazine columns, and patents. She is the founder of LJ Ventures, where she speaks and consults on energy and the environment and empowering women in the workplace and in our Next Act.

Connect with Jackson or find her books
at: www.lucindajackson.com.

Abstract

Lucinda Jackson worked for decades in the male-dominated science world and faced sexism, harassment, and discouragement. But along the way Jackson learned how to empower herself by recognizing and utilizing her past, identifying her vision and core values for decision-making in the present, and intentionally planning for her future Next Acts after a long, structured academic and corporate career. With real-life, personal examples, Jackson shares tried-and-true tips, tricks, and behaviors that worked in overcoming shame, self-blame, and lack of confidence to become an authentic, purposeful leader.

Questions?

Please contact Elaine Yamaguchi at
eyamaguchi08@gmail.com

Lucinda Jackson is the author of two memoirs: *Just a Girl: Growing Up Female and Ambitious*, about her struggles to succeed in the male-dominated work world, and *Project Escape: Lessons for an Unscripted Life*, an exploration of freedom after leaving a structured career. Jackson is a PhD scientist and global corporate executive who features on podcasts and radio and has published articles, book chapters,

2022 Election of SVACS Officers, Councilors, Alternate Councilors for 2023

Voting Period: October 25 to November 14, 2022

SVACS members have received an email notification to cast their votes online. To help you be more informed, a sample ballot is shown below. Biographies and candidate statements are posted on the [Silicon Valley ACS Section's website](#).

Student members may vote and sign petitions, but they may not run for office. Affiliate members may not participate in the election.

----- Sample Ballot -----

Chair-Elect (3-year commitment, will be Chair-elect 2023, Chair in 2024, and Immediate Past Chair in 2025) VOTE for ONE (1)

- Todd Eberspacher
- Write-in _____

Secretary (2-year term)

- Megan Tichy
- Write-in _____

Councilor (2 open positions for 3-year terms. Vote for two (2))

- Madalyn Radlauer
- Ihab Darwish
- Write-in _____

Alternate Councilor (3 open positions: the three candidates with the most votes will fill the 3-year terms. Vote for three (3))

- Amanda Nelson
- Kristin Schmidt
- Laura Yeager
- Tim Erdmann
- Write-in _____

Is DNA the Future of Data Storage?

Reactions - Uncover the Chemistry in Everyday Life

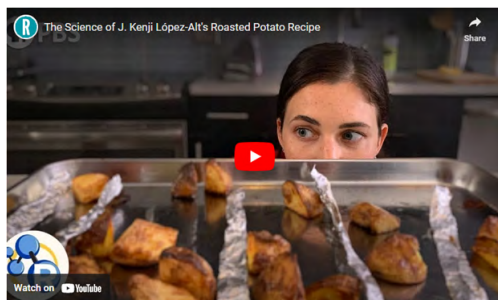


“Could the future of data storage be DNA? It’s the original format after all, storing the information needed to build every living thing. And it has a handful of qualities that would make it perfect for storing all the digital information in our world. With recent advances in sequencing and printing DNA, it’s technically possible, but there are a few obstacles to overcome before this sci-fi-sounding tech can become a household reality.”

[Learn more and watch video](#)

The Secret to Roasting Amazing Potatoes According to Chemistry

Reactions - Uncover the Chemistry in Everyday Life



“Making delicious roasted potatoes is all about finding the right texture and consistency. Here at Reactions, we were inspired to give it a go after seeing J. Kenji Lopez-Alt’s delicious recipe on Serious Eats. Today we’ll use chemistry (are you surprised?!) to create the roasted potatoes of your dreams. Get ready to wow your family and friends this holiday season.” [Learn more and watch video](#)

Chemaxon European User Meeting

Budapest, May 29-31, 2022

An open access [report](#) by [Wendy Warr](#)

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- Introduction
- Moving forward together with Chemaxon
- New challenges, new direction: portfolio overview 2022
- From idea to insights: data capture across a laboratory workflow
- LabCup inventory management software
- Marvin Pro: news and plans about chemical drawing
- Design Hub at Boehringer Ingelheim
- Accelerate your drug discovery research. D360 and Design Hub integration
- Growing the Design Hub system
- Translating data to predictive models
- Plan your synthetic routes with ChemAIRS
- Reaxys predictive retrosynthesis: development, use, and adoption by chemists
- Aiding patent drafting with Markush Editor
- Claim drafting, reverse engineering
- Compliance Checker and cHemTS
- Controlled substance detection as a service
- Trends in life science R&D: some Pistoia Alliance perspectives
- Panel discussion - Chair: John Wise, Pistoia Alliance. Panelists: Thomas Balkinas, Amazon; Richard Jones, Chemaxon; Wendy Warr, Wendy Warr & Associates
- AWS for Life Sciences
- JChem Choral cartridge migration use case
- Chemaxon Object Notation
- Workshop
- Conclusion



華美化學與化工學會

Chinese American Chemical Society

Northern California Chapter

Meet Chemistry Superstars

Creating Tomorrow's Technologies



Prof. Zhenan Bao

Stanford University

Skin-inspired Organic Electronics



Prof. Peidong Yang

UC Berkeley

Artificial Photosynthesis

Please register and join us for the inaugural program of the new Northern California Chapter of the **Chinese American Chemical Society (CACS)**

- CACS overview and awards
- Talks from awardees Profs. Zhenan Bao and Peidong Yang
- Great networking & light refreshments

Everyone is welcome, limited seating

Register now for free www.cacshq.org/superstars or scan QR code

Thursday, November 17, 2022

4:15 pm Check-In

4:30 pm Program

5:30 pm Reception



Stanford University, Main Quad Building 200 (450 Jane Stanford Way), Room 205
(Free campus parking after 4 pm)

 **Stanford** | Stanford University
Mass Spectrometry
Research Applications Symposium
MASS SPEC: THE VOYAGE HOME

Wednesday November 16, 2022, from 9am-Noon

Online via Zoom, Free, [Register today!](#)

Event Details:

Stanford University Mass Spectrometry's 2022 Research Applications Symposium, **2022 SUM-RAS** Mass Spec: The Voyage **Home**, will transport scientists from around the world for a virtual visit with Stanford's mass spectrometry community, sharing our exciting campus research and resources featuring these speakers:

- **Dr. Yuqin Dai**, Director, ChEM-H Metabolomics Knowledge Center, Stanford University
- **Dr. Ruth Huettenhain**, Incoming Assistant Professor, Dept. of Molecular & Cellular Physiology, Stanford University
- **Christie Jilly-Rehak**, Research Scientist/Lab Manager, SHRIMP-RG Lab, Stanford University
- **Dr. Chris Lock**, Clinical Associate Professor, Dept. of Neurology & Neurological Sciences, Stanford University
- **Dr. Parag Mallick**, Associate Professor, Dept. of Radiology, Stanford University
- **Dr. Sharon Pitteri**, Associate Professor, Dept. of Radiology, Stanford University
- **Dr. Karrie Weaver**, Technical Director, SIGMA Lab Facility, Stanford University
- **Dr. Shouling Xu**, Research Scientist, Plant Biology, Carnegie Institution for Science

National Chemistry Week Pop-Up Chemistry

Redwood City Library on Saturday, November 19, 2022. Open to all! [Learn more](#)

POP-UP CHEMISTRY FOR AGES 9-12
SAT NOV 19 @ 3PM DOWNTOWN LIBRARY



NATIONAL CHEMISTRY WEEK  **@RCPL**
create. craft. collaborate!

In the News: Interesting and Cool Science

AI helps researchers design microneedle patches that restore hair in balding mice (ACS Press Release, October 31, 2022)

AlphaFold's new rival? Meta AI predicts shape of 600 million proteins (Nature News, November 1, 2022)

Black Death survivors gave their descendants a genetic advantage — but with a cost (NPR, October 21, 2022)

Breakthrough in the production of an acclaimed cancer-treating drug achieved by Stanford researchers (Stanford News, October 3, 2022)

Charting a Course to Advance U.S. Innovation (National Academies of Sciences, Engineering, and Medicine Press Release, October 19, 2022)

Chemical clues to the mystery of what's coating Stradivari's violins (ACS Press Release, October 25, 2022)

Disposable electronics on a simple sheet of paper (ACS Press Release, October 6, 2022)

Dozens of ancient viruses are 'switched on' in healthy cells throughout our bodies (Live Science, October 19, 2022)

Drug may be first non-opioid treatment for infant withdrawal (Stanford Medicine News,

October 12, 2022)

Historic Chemical Landmark designation goes to warfarin, a blockbuster blood thinner (ACS Press Release, October 10, 2022)

Intranasal COVID vaccine that works against variants in animals (ACS Press Release, October 24, 2022)

Key Insights on Click Chemistry and Bioorthogonal Chemistry (CAS Insights, October 5, 2022)

Molecular cage protects precious metals in catalytic converters (SLAC News, October 24, 2022)

Neurotoxicity: Challenges and Chemistry (ACS Axial, October 20, 2022)

Printable circuits that can work on fabric, plastic and even fruit (video) (ACS Press Release, October 26, 2022)

Recent advances in blood-based early disease detection (ACS Press Release, October 20, 2022)

Recent advances in chocolate research (ACS Press Release, October 27, 2022)

Recent advances in smart contact lenses (ACS Press Release, October 6, 2022)

Researchers resolve decades-long debate about shock-compressed silicon with unprecedented detail (SLAC Press Release, October 13, 2022)

Stanford researchers develop new tool for targeted cell control (Stanford News, October 5, 2022)

Storing hydrogen fuel in salts — a step toward 'cleaner' energy production (ACS Press Release, October 19, 2022)

Underwater movement sensor alerts when a swimmer might be drowning (ACS Press Release, October 7, 2022)

Wireless implant could help remove deadly brain tumors (Stanford Medicine, Scope, October 13, 2022)

Green Chemistry Challenge Awards

Nomination Deadline is December 9, 2022

EPA is currently accepting nominations for the 2023 Green Chemistry Challenge Awards from companies or institutions that have developed a new green chemistry process or product that helps protect human health and the environment. Nominations are due to the agency by Dec. 9, 2022.

An independent panel of technical experts convened by the American Chemical Society Green Chemistry Institute will formally judge the nominations and make recommendations to EPA for the 2023 winners. EPA anticipates giving awards to outstanding green chemistry technologies in six categories in the Fall of 2023.

A recording of the Sept. 28, 2022, webinar to educate stakeholders on the Green Chemistry Challenge Awards' nomination process is now available. This webinar, hosted by the U.S. Environmental Protection Agency (EPA), reviewed the history of the awards, eligibility requirements, and what is needed to submit a nomination. The webinar also reviewed the six award categories including a category to recognize technology that reduces or eliminates greenhouse gas emissions, in support of the Biden-Harris Administration's efforts to combat the climate crisis. [Learn more about the Green Chemistry Challenge Awards and View the recorded Webinar](#)



Welcome to the Silicon Valley Section of ACS

Each month, the 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. To welcome new members to the section, the Executive Committee offers new members a free dinner at a monthly SVACS seminar meeting. When you register for the event, make certain to mention that you are a new member and you and a friend will be our guests.

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

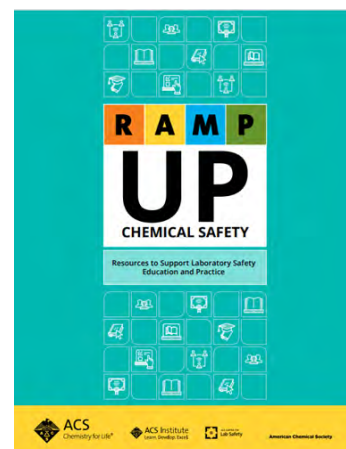
NEW ACS MEMBERS

Gabriela Acevedo
Raybel Almeida
Sami Amir
Nika Bondar
Giselle Chiprez Ramirez
Sydney Einhorn
Melvin Gomez-Ordaz
Jessy Gonzalez

Radcliff Huffman
Mai Kurihara
Kelly Ann Newman
Timothy O'Donnell
Preeta Pratakshya
Isabella Ramirez
Ramya Rangan
Kristin Schmidt

Rama Rao Tata
Nohora Vargas
Baraa Werghe
Roberto L. Wong
Yixuan Yang
Junhan Zhou

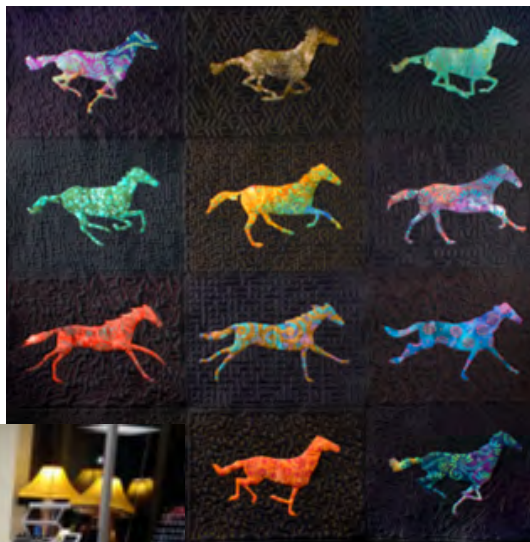
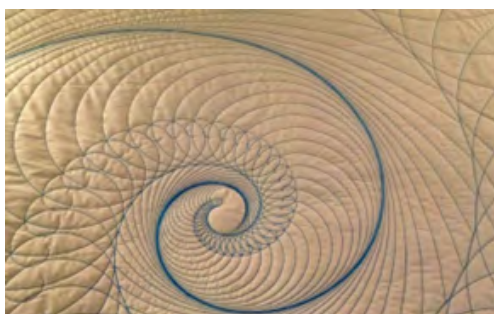
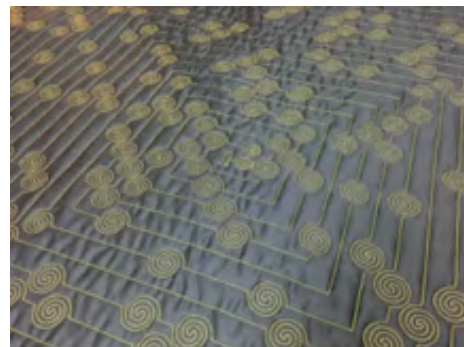
Chemical Safety Resources



This new 16-page brochure is worth checking out!

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Keep Warm this Winter: Quilts for Scientists



“Periodic table posters are dime a dozen, but a periodic table quilt, now that’s something to write home about! These quilts take about four hours of continuous stitching on a full-frame robotic quilting system and contain over 120,000 stitches. They include the name, atomic number, and symbol for all the known elements, all rendered purely in stitches.” [Learn more](#)

[PaleGray Labs](#) is a textile collaboration between [Theodore Gray](#), author of *The Elements: A Visual Exploration*, and [Nina Paley](#), an artist and film maker.

Noteworthy News in Publishing and Innovation

[Announcing the Launch of ACS Publications’ Data Availability Statement Pilot at The Journal of Organic Chemistry, Organic Letters, and ACS Organic & Inorganic Au](#) (ACS Axial, September 14, 2022)

[Celebrate Open Access Week 2022 with ACS Publications](#) (ACS Axial, October 24, 2022)

- [Fostering a Climate of Open Science](#)
- [Open Access Copyright and Licensing: A Guide for Authors](#)
- [The Journey to Open Access: Past and Present](#)
- [Looking Ahead: The Future of Open Access](#)

[Impact of the 2022 OSTP Memo: A Bibliometric Analysis of U.S. Federally Funded Publications, 2017-2021](#) (Eric Shares, Submitted to arXiv, October 26, 2022)

[New Report and Resources Available on NIH Data Management and Sharing Policy](#) (Association of Research Libraries, ARL News, October 18, 2022)

[Royal Society of Chemistry commits to 100% Open Access](#) (RSC Press Release, October 31, 2022)

Safety Information in Journal Articles

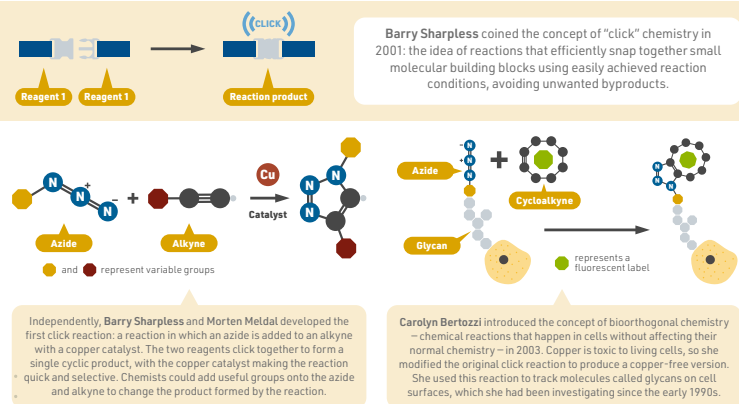
- [Part 1: The Necessity of Communication](#) (ACS Axial, October 10, 2022)
- [Part 2: Tips for a Well-Written Safety Statement](#) (ACS Axial, October 17, 2022)
- [Part 3: FAQs and Additional Resources](#) (ACS Axial, October 24, 2022)

[Two-Page Table Compares 2013 and 2022 Public-Access Guidance from US Office of Science and Technology Policy](#) (Association of Research Libraries, ARL News, October 26, 2022)

[Wiley Plans to Restore Access to Approximately 1,380 E-Book Titles Removed from ProQuest Academic Complete Collection](#) (Info Docket, October 5, 2022)

2022 NOBEL PRIZE IN CHEMISTRY

The 2022 Nobel Prize in Chemistry was awarded jointly to **Carolyn R. Bertozzi**, **Morten Meldal** and **K. Barry Sharpless** for their development of click chemistry and bioorthogonal chemistry.



WHY DOES THIS RESEARCH MATTER?

Additional click chemistry reactions have been developed, useful in the synthesis of new drugs. Bioorthogonal reactions allow researchers to study biological molecules and help identify targets of new drugs, and are also being trialled to produce 'clickable' antibodies to target cancerous tumours.

Nobel Prize in Chemistry press release: <https://www.nobelprize.org/prizes/chemistry/2022/press-release/>

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