

SILICON VALLEY CHEMIST

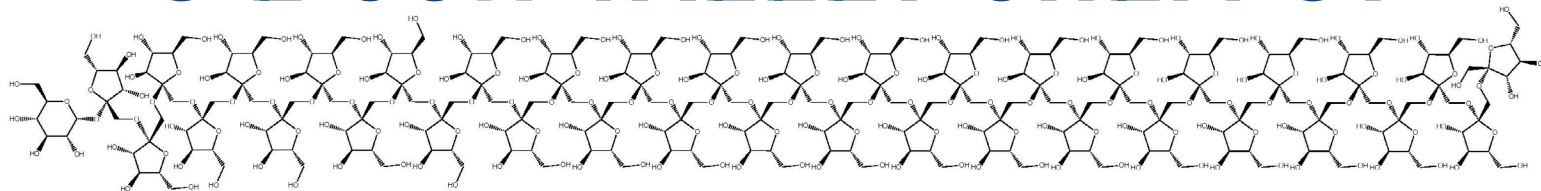


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an ACS sponsored event 

The 5th annual **Bay Area Chemistry Symposium**, an ACS sponsored symposium for Synthesis and Design in Medicinal & Process Chemistry

WHEN	Friday, October 25th, 2024
WHERE	Robertson Auditorium, UCSF

Registration is still open!

This symposium, unique to the Bay Area, 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 2024 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: <https://bayareachemistrysymposium.com>

OUR 2024
KEYNOTE
ACADEMIC
SPEAKERS



Prof. Noah Burns
Stanford



Prof. Brian Shoichet
UC San Francisco



Prof. Alanna Schepartz
UC Berkeley

Last year's BACS was graciously sponsored by our

INDUSTRY SPONSORS



Paving the Path Virtual Career Panel & Watch Parties

October 16, 2024 5-7PM

Calling all community college and transfer students interested in chemistry-related fields!

Silicon Valley American Chemical Society (SVACS) invites you to interact with a career panel of 4 chemistry professionals, all of whom began their educational journeys at community colleges. They will highlight their unique professional journeys and tell us their stories of resilience and determination. This virtual career panel can be accessed by Zoom on your own or at an in-person watch party at:

- Cabrillo College
- DeAnza College
- Foothill College
- Gavilan College
- Hartnell College
- Mission College
- San Jose State University

The in-person watch parties will also include refreshments (read: pizza), networking, and ACS swag. **Register** by October 15 and indicate your watch party preference so we order enough food. All

continued on next page

Paving the Path, continued from front page

registrants will be contacted by email with the Zoom link and the location of the watch party on their choice of campus (if applicable). Can't make it to the watch party? [Register](#) & get the link to join us on your own by Zoom. Looking forward to an animated evening of inspirational stories and pizza-fueled conversation! [Download the flyer.](#)



PAVING THE PATH | Silicon Valley American Chemical Society

Virtual Career Panel & Pizza-fueled Watch Parties
Calling all community college and transfer students interested in chemistry-related fields

The panel of 4 professionals who started their higher education journeys at a community college like you will be zoomed* to watch-party viewing sites



Cabrillo College DeAnza College Foothill College Gavilan College
Hartnell College Mission College San Jose State University

WEDNESDAY, 16 OCTOBER 2024 | 5-7 pm PDT
For more information & to register

SCAN ME!



<https://forms.gle/6Zd8zXYW6PCvhfkB9>

*Can't make it to the watch party? Register above & get the link to join us on your own by Zoom.



This event is part of the SVACS Paving the Path program that supports community college students majoring in chemistry-related fields and who plan to transfer to 4-year colleges.

2024 Election of SVACS Officers, Councilors, Alternate Councilors for 2025

Voting Period: October 21 to November 14, 2024

Silicon Valley ACS (SVACS) members will receive an email notification to cast their votes online.

To help you be more informed when you receive this notification, a sample ballot is shown below.

Biographies and candidate statements will be posted by October 18th on the [SVACS website](#).

How to petition to be on the ballot:

Prior to October 15, 2024 any member or affiliate of the Section may, in writing or from the floor at a meeting to conduct governance business, nominate additional candidates for office, provided that the candidates are members of the Section, and the nomination is seconded by another member or affiliate. Nominations shall be equally valid as those from the Nomination Committee. All candidates nominated shall have indicated willingness to serve if elected. Written petitions can be sent to the Chair of the Nominations Committee, [Todd Eberspacher](#). You may also contact Todd with questions.

A petition must include the following: name of the proposed candidate, the proposed position, and the name and ACS membership numbers for both the candidate and the person who is seconding the nomination. All petitions must be submitted by October 14, 2024, to [Todd Eberspacher](#).

ACS is your Society! Voting in an ACS Election is one of many ways to engage and stay connected.

Ability to vote in ACS Elections is granted to all ACS regular members who are on standard or premium packages.

Excluded from this are members with a basic package.

<https://www.acs.org/membership.html>

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

Chair-Elect (3-year commitment, will be Chair-elect 2025, Chair in 2026, and Immediate Past Chair in 2027) VOTE FOR ONE (1)

- Natalie McClure
- Write-in _____

Secretary (2-year term, 2025-2026. Vote for ONE (1)

- Jigisha Shah
- Write-in _____

Councilor (2 open positions for 3-year terms, 2025-2027.

Vote for TWO (2)

- Linda Brunauer
- Jane Frommer
- Write-in _____

Alternate Councilor (2 open positions for 3-year terms, 2025-2027. Vote for TWO (2)

- Jose Ramirez
- Eefe Chen
- Write-in _____



BECAUSE PEOPLE LIKE YOU CREATE GREAT CHEMISTRY

You Belong Here

Join ACS Today and Save!

As part of an exciting membership drive, the American Chemical Society is offering a special discount for new and renewing members. Now is the perfect time to become a part of the world's largest chemical society, where you can access a wealth of resources, networking opportunities, and professional development tools. Whether you're a seasoned professional or just starting out, ACS has something to offer. Don't miss out on this limited-time offer (available until November 15, 2024) - join or renew your membership today and take advantage of the discounted rates!

To get a 30% discount, sign up or renew your ACS membership at <https://ow.ly/BHOs5OSI9Rq>.

Don't forget to use the code LSGROW24 at checkout to apply for the discount.

[Learn more about ACS Membership](#) | [Download 2024 Guide to ACS Membership](#) (PDF)

CALENDAR OF EVENTS

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

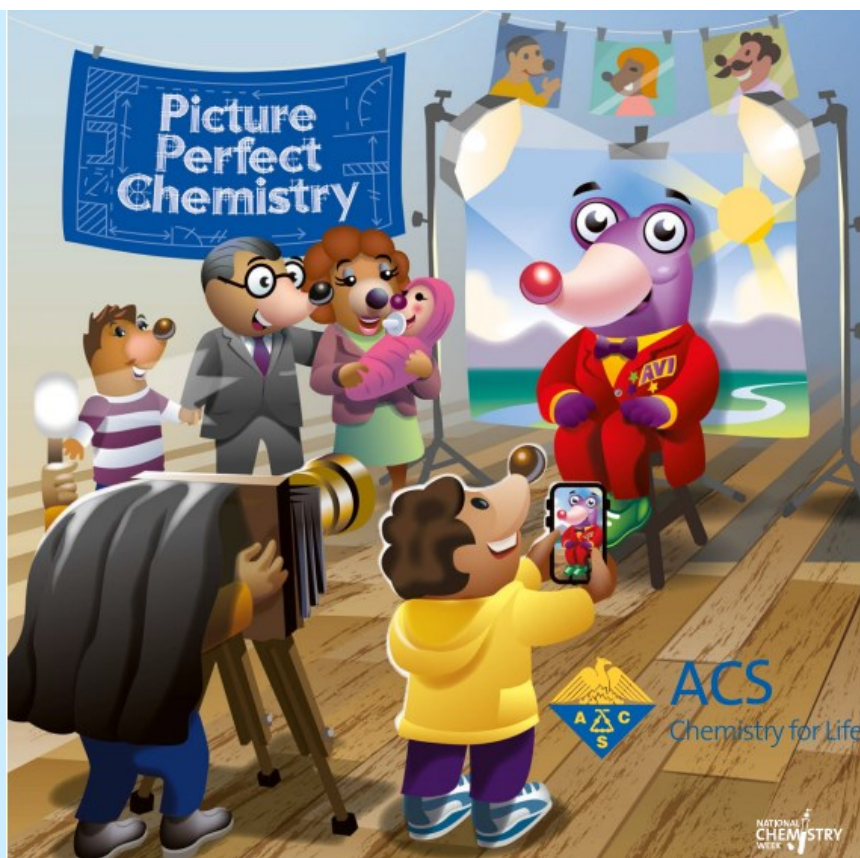
-October 2024-

- Oct 9** **Versatile and Sustainable Adhesives Derived from α -Lipoic Acid**
Prof. Phillip B. Messersmith, UC-Berkeley & Lawrence Berkeley National Lab
Sponsored by the Golden Gate Polymer Forum (GGPF)
6:00-7:00 pm, Online, Free/\$5 Donation, [Registration required by October 8 at 1:00 pm](#) to receive Zoom link.
- Oct 10** **Catalyze the Vote! Meet the 2025 ACS President-Elect Candidates**
Rigoberto Hernandez, Laura Sremaniak, & Mukund Chorghade
Sponsored by ACS Webinars, ACS Younger Chemists Committee, & ACS Nominations & Elections Committee
11:00 am-Noon, Online, Free, [Registration required](#)
- Oct 10** **Primordial Pathway: A Legacy of Ancient Life on Earth**
Macon Abernathy
Sponsored by SLAC National Accelerator Laboratory
7:00-8:00 pm, Online & in person, Free, [Learn more & register to watch in person](#)
- Oct 12** **Kid Makers: Pop Up Chemistry**
Sponsored by Silicon Valley ACS & Redwood City Public Library (RCPL)
2:00-3:00 pm, In person for ages 9-12, RCPL Downtown Location, 1044 Middlefield Road, Redwood City, Free, [Learn more](#)
- Oct 14** **Chemistry in Art, Art in Chemistry, and the Spiritual Ground They Share**
Prof. Roald Hoffmann, Cornell University
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, Online & in person, Stanford Center for Teaching & Learning, Sapp Center Auditorium 111, Free, [Learn more](#)
- Oct 16** **Finding Your Market, Defining Your Business**
Sponsored by ACS Careers Pathway Virtual Workshop
9:00-10:30 am, Online, Free, [Registration required](#)
- Oct 16** **Paving the Path Initiative for Community College Students: Virtual Career Panel & Watch Parties**
Sponsored by Silicon Valley ACS
5:00-7:00 pm, Online & In person at Cabrillo College, DeAnza College, Foothill College, Gavilan College, Hartnell College, Mission College, & San Jose State University, Free, [Registration required](#)
- Oct 17** **Sustainable Manufacturing: Green Chemistry Breakthroughs in Pharma**
Sponsored by ACS Webinars & the ACS Green Chemistry Institute
11:00 am-12:30 pm, Online, Free, [Registration required](#)
- Oct 19** **National Chemistry Week Celebration 2024**
Sponsored by Silicon Valley ACS and San Jose Public Library
11:00 am-2:00 pm for kids ages 5-12. In person at the Martin Luther King Library, 150 E San Fernando St, San Jose, CA 95112, Free, No registration required, [Learn more](#)

- Oct 23** **Program-in-a-Box : Picture Perfect Chemistry: Laboratory Imaging & Photography**
Sponsored by ACS
4pm Pacific Time (pre-show starts at 3:45pm), Online, Free
[Registration required and learn more](#)
- Oct 25** **Bay Area Chemistry Symposium**
Sponsored by Silicon Valley ACS, California ACS, EWOC (Empowering Women in Organic Chemistry) NorCAL Chapter, plus many corporate sponsors
UCSF Mission Bay, Robertson Auditorium | [Learn more and register](#)
- Oct 28** **Drug Discovery: How We Got Here & Where We Might Be Going**
Dr. Derek Lowe, Novartis
Sponsored by Stanford Chemistry Department
3:00-4:00 pm, In person at Stanford Center for Teaching & Learning, Sapp Center Auditorium 111, Free, [Learn more](#)
- Oct 30** **Science for All: The Power of Impactful STEM Communication & Journalistic Writing**
Sponsored by ACS Webinars & ACS Public Relations & Communications Committee
11:00 am-12:15 pm, Online, Free, [Registration required](#)
- Oct 30** **See What's New in CAS SciFinder**
Sponsored by CAS
11:00 am-Noon, Online, Free, [Registration required](#)

- November 2024 -

- Nov 2** **Reducing Risk & Uncertainty Associated with Nuclear Waste Processing & Disposal: A Hanford Tank Waste Case Study**
Carolyn Pearce, PhD, Pacific Northwest National Laboratory
Sponsored by ACS California Section, Women Chemists Committee
10:30-Noon, Online, Free, [Registration required](#) | [Download Flyer](#)
- Nov 7** **ACS Virtual Office Hours: Finding and Securing an Internship**
Sponsored by ACS Careers Office
9:00-10:30 am, Online, Free, [Registration required](#)
- Nov 9** **Kid Makers: Pop Up Chemistry**
Sponsored by Silicon Valley ACS & Redwood City Public Library (RCPL)
2:00-3:00 pm, In person for ages 9-12, RCPL Downtown Location, 1044 Middlefield Road, Redwood City, Free, [Learn more](#)
- Nov 15** **Celebration of Life: Professor John I. Brauman**
Sponsored by Stanford Chemistry Department
5:00-6:30 pm, Online & in person at Sapp Center for Teaching and Learning, Sapp Auditorium (STLC 111), 376 Lomita Drive, Stanford.
[Learn more and RSVP](#)
- Nov 16-17** **Stanford Splash - Fall 2024**
Sponsored by Stanford University
For students in grades 8-12. In person at Main Quad, Stanford University. Cost \$50 but free for students where this imposes a financial burden. [Learn more](#)



NATIONAL CHEMISTRY WEEK CELEBRATION 2024

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

- Hands-on chemistry activities for kids, about the chemistry of photography!
- Free copy of "Celebrating Chemistry" the ACS publication for kids.
- **PRIZES** for every child who participates!

Free! No registration required.

SATURDAY,
OCTOBER 19, 2024
Time 11 a.m.—2 p.m.

**Dr. Martin Luther King, Jr. Library,
Children's Room**

150 E. San Fernando
San José, CA 95112
(408) 808-2183

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.



2024 NCW Illustrated Poem Contest Picture Perfect Chemistry

The Silicon Valley Local Section of the American Chemical Society (ACS) is sponsoring an illustrated poem contest for students in kindergarten through 12th grade.

Contest Deadline: October 25, 2024

Prizes: Win an Amazon gift card

Contact: Jigisha Shah (jigishapshah85@gmail.com)

Winners of the Silicon Valley Local Section's Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win prizes!

Write and illustrate a poem using the NCW theme, **"Picture Perfect Chemistry."**
Your poem must be **no more** than 40 words and in the following styles to be considered:

HAIKU - LIMERICK - ODE - ABC POEM - FREE VERSE - END RHYME - BLANK VERSE

Possible topics related to the theme include:

- Chemical reaction
- Molecules
- Transparent
- Ultrasound
- Colloid
- Film
- Filters
- Lens
- Imaging
- Pixel

Entries will be judged based upon:

- Artistic Merit - use of color, quality of drawing, design, and layout
- Poem Message - fun, motivational, inspiring about yearly theme
- Originality Creativity - unique, clever and/or creative design
- Neatness - free of spelling and grammatical errors

Contest rules:

- All poems must be no more than 40 words, and in one of the following styles to be considered: Haiku, Limerick, Ode, ABC poem, Free verse, End rhyme, and Blank verse.
- Entries are judged based upon relevance to and incorporation of the NCW theme, word choice and imagery, colorful artwork, adherence to poem style, originality and creativity, and overall presentation.
- All entries must be original works without aid from others. Poems may be submitted by hand on an unlined sheet of paper not larger than 11" by 14" or scanned and sent via email. Illustrations may be created using crayons, watercolors, other types of paint, colored pencils, or markers. The illustration may also be electronically created by using a digital painting and drawing app on a computer, tablet, or mobile device.
- The text of the poem should be easy to read and may be typed before the hand-drawn or digital illustration is added, or the poem may be written on lined paper, which is cut out and pasted onto the unlined paper with the illustration.
- No clipart or unoriginal images can be used.
- Only one entry per student will be accepted; all entries must include an entry form. If the illustration is created using a digital painting or drawing app, the name of the program must be included on the entry form.
- Acceptance of prizes constitutes consent to use winners' first name, and entry for editorial, advertising, and publicity purposes.
- Do **not** place participant names on the front of your poem





**SPOTLIGHT ON SCIENCE
PHOTOGRAPHY CONTEST**

Take part in this contest for a chance to win some exciting prizes!

Submit before
1
DECEMBER

Simply email your entry with the subject line
“#SVACS SpotlightOnScience” to
siliconvalleyacs@gmail.com

Possible examples: People in Science,
Wildlife and Nature, Crystallography,
Fluorescence, Space

Entry Levels: School Students,
Undergraduate and graduate
students, Career Scientists

ACS Local Section
Silicon Valley



Who can enter?

The photography contest is open to individuals of any age in any part of California.

Your photograph should focus on Science

Taking a camera and shooting a picture is an easy deal. What about going further? What about using photos to discover science?

Scientific phenomena are all around us. Silicon Valley ACS aims to give you an opportunity to freeze them for eternity!

Must be original, unpublished work

Entries must be composed of original, authentic, unpublished material and must be the sole property of the entrant, not previously submitted to any other contest. Published material includes that which has been posted online. This includes, but is not limited to, Facebook, or any other social network website where photos have been posted and shared.

In adherence to our commitment to promoting originality and creativity, the Spotlight on Science photography contest strictly prohibits the use of Artificial intelligence (AI) resources for photo manipulation or enhancement to ensure that each submission reflects the genuine skill and creativity of the photographer.

While the copyright for the photograph is retained by the entrant, entering the contest automatically provides Silicon Valley ACS the right to display the photo online and/or in any public or private settings without restriction.

What do I need to submit?

The photography contest is limited to one submission per entrant. A valid submission will contain the following information:

1. A completed Microsoft Form [found here](#)
2. **One photograph** illustrating your choice of “Science in the Spotlight.”

When is the deadline?

All eligible submissions must be received electronically by **8 p.m. PST, Sunday, 1 December 2024**. Your photo submission is considered incomplete until we receive all of these items.

If you have any problems submitting your entry, please e-mail the Silicon Valley ACS staff at SiliconValleyACS@gmail.com with the subject line “#SVACS SpotlightOnScience”.

**Stanford Splash
Fall 2024
will be
November 16 and 17!**



Splash is a program that brings students in grades 8-12 from everywhere to Stanford’s campus for a two-day learning extravaganza. Our goal is to create unique and fun learning experiences for students in the greater Bay Area, especially students from underrepresented and disadvantaged backgrounds. Splash also provides valuable teaching and outreach opportunities for Stanford affiliates.

Date: November 16 and 17, 2024

Location: Main Quad, Stanford University

[directions]

Cost: \$50, but free for students where this imposes a financial burden (see our [fee waiver](#)).

Lunch, snacks, and water are provided.

Interested in teaching? Click on the “Teachers” tab on the [Splash homepage](#) for more information! Teachers must be Stanford affiliates (students, faculty, or postdocs) and LiveScanned under California law.

For students: If you are interested in registering as a student, please check out the student tab for more information.

Any questions? Please [email us!](#)

Want updates? [Make an account](#) and follow us on [Instagram!](#)



In Memoriam: John Brauman (1937-2024)

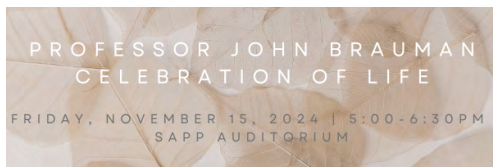


John Brauman served as Chair and Alternate Councilor for the ACS Santa Clara Valley Section (former name for the ACS Silicon Valley Section).

“Stanford chemist John Brauman, the J.G. Jackson and C.J. Wood Professor of Chemistry, has passed. During his 55-year career at Stanford, he served as a mentor to many and held several key positions, including Department Chair, Associate Dean for Natural Sciences, and Associate Dean of Research.

John Brauman's research on chemical structure and reactivity changed the way people thought about chemistry, clarifying how solvents affect chemical stability and reactivity. John was a skilled and motivating teacher and mentor who had a profound impact on the lives and careers of generations of graduate students and chemists.

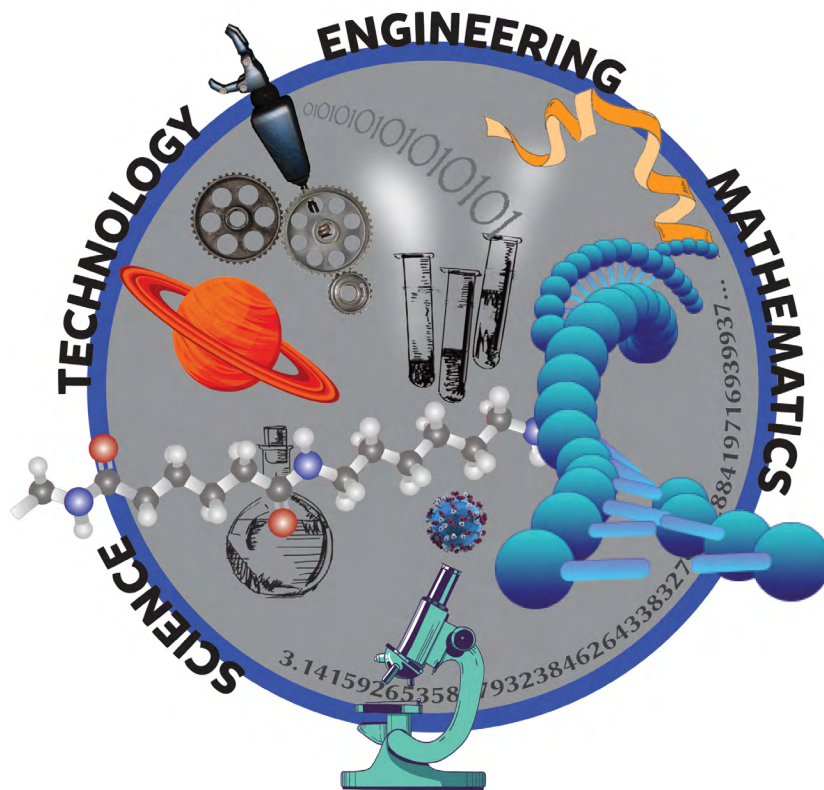
Among the many honors that he received over his lifetime was the National Medal of Science in 2002, membership in the National Academy of Sciences in 1976, the National Academy of Sciences Award in Chemical Science, and many awards from the American Chemical Society including the Linus Pauling Medal, Willard Gibbs Award, Harrison Howe Award, James Flack Norris Award in Physical Organic Chemistry, and the Award in Pure Chemistry.”



A celebration of his life and scientific contributions is being held online and in person at Stanford on November 15, from 5:00-6:30 pm. [Learn more and RSVP.](#) | [John Brauman Obituary, SF Chronicle](#)



K-12 Science Educators - get a BUBBLE Grant for your classroom.
The SVACS BUBBLE Grant supports
K-12 teachers with funds to facilitate teaching science.



For submission guidelines and project description go to
<http://www.siliconvalleyacs.org/awards-funding/bubble-grant>

Bubble Grant application deadline - November 1, 2024

Reactions: Chemistry Science Videos Uncover the Chemistry in Everyday Life



[Watch Video on YouTube](#) | [View Sources](#)

“How do you turn nuclear waste into a \$30,000-per-gram commodity? Tritium, once discarded as a by-product of Canadian nuclear

reactors, is now one of the most expensive materials on Earth. This rare isotope of hydrogen powers glow-in-the-dark keychains, exit signs that can stay bright for two decades without power and cutting-edge fusion energy research.

Join our host, George, as he explores how tritium is produced and used, and why its use as a fusion fuel is completely different from its use in exit signs. As demand for clean, limitless power grows, companies are racing to secure their piece of the tritium pie, making this once-discarded nuclear waste a hot commodity.”



David Parker Award for Excellence Recipients Celebrated at the Santa Clara Fire Department

In November 2020 the San Jose Mercury News published the obituary of David (Dave) Parker, a Ph.D. chemist and HAZMAT fire officer for the **City of Santa Clara Fire Department**. Dave had long been active in public outreach for science and chemistry. The obituary included a request to donate to the **ACS Silicon Valley Local Section (SVACS)** to support the chemistry education of middle school students. Dave had been a long-time active member of the SVACS Executive Committee.

Within a short time, donations were received to create the Dr. David Parker Fund to support 6-8th grade students presenting at the local **Synopsis Championship Science Fair** every March in San Jose. Donations are still being received to support student interest in science. The SVACS **David Parker Award for Excellence** recognizes 6-8th grade chemistry science fair presenters as David Parker Awardees. SVACS members Howard Peters and Mike Lepisto are the judges. Since the award was initiated in 2021 during the COVID epidemic, the earliest science projects were judged remotely.

On August 19, 2024, the City of Santa Clara Fire Department held a special event to honor the David Parker Awardees for years 2021-2024. These students and their families learned about the relationship between chemistry and fire science - both in starting a fire and how to extinguish one. They toured a fire truck containing tools and resources for firefighters responding to emergencies; were oriented to the role of the fire department in assuring public safety, as well as to station operations by fire department staff; and learned how the fire department responds to hazardous materials emergencies in the community. They performed hands-on testing with analytical equipment to identify potentially high-risk chemicals, as well as seeing demonstrations of hardware and software used to protect personnel. A special thanks to SCFD Firefighters Fred Chun and Jenn Panko for creating an amazing, informative learning session for these students and their parents. Fred and Jenn were integral in making this a memorable event.

Dave's wife, Carol Ann Parker, was in attendance and brought Dave's fire helmet (CHEMIST is printed across the front) and his gold badge to the event. The awardees had the opportunity to be photographed wearing the helmet, and a beautiful cake was served by fire department personnel in the awardees' honor.

SVACS members Susan Hines and Phil Hines attended the event as well. Susan has organized the SVACS Award teams at the Santa Clara County annual Synopsis Science Fair for many years.

David Parker Awardees at the Santa Clara Fire Department Event



From left to right: Aanya Kandala (awardee), Carol Ann Parker (spouse), Susan Hines (SVACS), Phil Hines (SVACS), Mridula Rajagopalan (awardee), Viraj Pandey (awardee).



What causes the colours of the aurora?

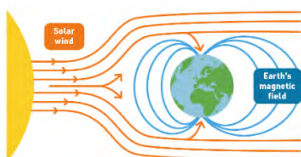


ACS Local Section
Silicon Valley

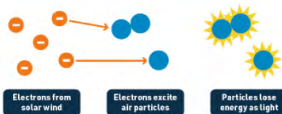
P.O. Box 395, Palo Alto, CA 94302

What causes the aurora?

Auroras result from charged particles from the sun hitting the Earth's magnetic field. The particles follow Earth's magnetic field lines. At the poles, where the magnetic field lines intersect Earth's atmosphere, they cause auroras.



When they enter the atmosphere, the charged particles collide with atoms and molecules in the air. The collision results in the excitation of atoms and molecules, which give off varying colours of light as they lose the additional energy.



In the Northern Hemisphere the effect is known as the northern lights or aurora borealis. In the Southern Hemisphere, it is the southern lights or aurora australis.



Where can you see the aurora?

Usually, the aurora are only visible at high northern or southern latitudes. However, during periods of high solar activity they can be viewed outside of the usual auroral zone.

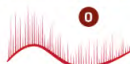


What causes the different colours?

The different colours of the aurora are caused by the collision of charged particles, usually electrons, with different gases at varying altitudes in the atmosphere.

>150 miles

Red



Caused by the excitation of oxygen atoms at high altitudes. Rare and only seen during intense solar activity.

60-150 miles

Green



Caused by excitation of oxygen atoms at lower altitudes where their concentration is higher and more energy is lost to collisions.

<60 miles

Blue and purple

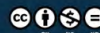


Caused by the excitation of nitrogen molecules. Like red, usually only seen during intense solar activity.

You might see shades of yellow and pink in the aurora as the other colours of the aurora combine, usually during higher periods of solar activity. Oxygen and nitrogen in the atmosphere can also emit ultraviolet light which is not visible to our eyes.

www.compoundchem.com

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Photo: © Adobe Stock



[Download this image \(PDF\)](#) | [Read associated article](#) | [Sun Emits X9.0 Flare on 10/3/2024 \(NASA\)](#)

Contact us: <https://www.siliconvalleyacs.org/about/contact/>

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

Sign up: [Newsletter](#)



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Silicon Valley ACS Executive Committee

2023 Section Officers	Chair	2024	Todd Eberspacher	
	Chair-Elect	2024	Amanda Nelson	
	Past-Chair	2024	Natalie McClure	
	Secretary	2023-2024	vacant	
	Treasurer	2024-2025	Ihab Darwish	
Councilors	2022-2024	Linda Brunauer	2022-2024	Jane Frommer
	2023-2025	Ihab Darwish	2023-2025	Madalyn Radlauer
	2024-2026	Grace Baysinger	2024-2026	Natalie McClure
Alternate Councilors	2022-2024	Megan Brophy	2022-2024	Anais Nguyen
	2023-2025	Kristin Schmidt	2023-2025	Laura Yeager
	2024-2026	Karan Dikshit	2024-2026	Howard Peters
Newsletter	Editor	Grace Baysinger	Assoc. Editor	Jane Frommer

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