

JULY 2022 VOLUME 45 NO. 7

SILICON VALLEY CHEMIST

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Picnic Message

Our Silicon Valley ACS festive summer picnic has all the trappings of a picnic with a barbecue feast, wine, and beer in a lovely outdoor setting. But it is a lot more. It is also an opportunity to celebrate our long-time ACS members, our section's service award-winners, and each other, particularly as we relish personal interactions once again. This SVACS event is family-friendly with children eating and playing outdoors while their families socialize.

One phase of the Saturday event is a wineand beer-tasting, planned and served by our section's 'sommelier', Peter Rusch, and masterbrewer, Matt Greaney. Come learn about new beverages in good company.

The highlight of our Saturday together is recognizing both extraordinary contributors to our section and our long-time ACS members. The Silicon Valley ACS honors outstanding volunteerism in several areas with a number of awards. Come meet the heroes and see the village

Annual ACS Silicon Valley Picnic and Awards

Please join us for our annual ACS Silicon Valley picnic and awards where we celebrate together with wine- and beer-tasting, good food, and awards. **Registration:** *Advanced registration required*. Registration deadline is July 13th. **Cost:** \$5 for adults, free for children. **Date:** Saturday, July 16, 2022 (*download flyer*) **Schedule:** 4:00-7:00 pm

4:00-5:00 pm: Beer and Wine Tasting (Altamont Beer Works and Picchetti Wines) 5:00-6:00 pm: Dinner Catered by Armadillo Willy's

6:00-7:00 pm: Awards for Long-time Members and the Radding Award Winner

Location: Cuesta Park, Group BBQ Area #1-2, 615 Cuesta Dr, Mountain View, CA 94040 (view map) (get directions)

Your safety is our priority. After careful consideration, CDC guidelines, scientific advice, and the ongoing issue of variants, we request all attendees self-certify their vaccine status and encourage all attendees to wear face coverings during the event while not eating or drinking.

We look forward to seeing you!



Chair's Message, continued from previous page

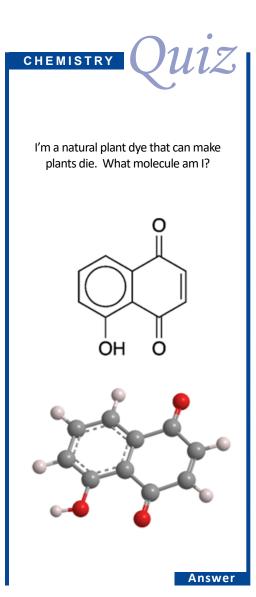
that makes our section so effective for chemists and the community.

We then honor our section's members with fifty or more years of membership in the American Chemical Society. The esteemed attendees recount their histories and retrospective lessons - interesting and inspiring story-telling about the trials, tribulations, and accomplishments in their chemistry careers.

The picnic provides us the opportunity to meet new people and see old friends, to talk about research and lives in the Bay Area, and to relish being in the company of like-minded folks while broadening our view with others' experiences.

This year's picnic is on Saturday, July 16 in Mountain View's Cuesta Park. Registration information is in this July newsletter. Don't wait long to register as orders get placed with our caterer on July 13.

Share the colorful SVACS picnic poster on this newsletter front page with friends and family. We look forward to seeing you all there!



Application Process Closing July 15th for Serving on an ACS National Committee



The ACS Committee on Committees is pleased to announce the launch of the new and improved online national committee preference form. If you are interested in serving on an ACS national committee, the online committee preference form is the perfect way to let us know which committees are of interest to you and how your skills and background will contribute to the committees' work.

You can also use this system to update much of your contact and biographical information in ACS records throughout the year.

Get started now to access the *committee preference form*. The form for committee assignments will be open from April 15 through July 15, 2022. Learn more: *About ACS Committees*, *About the Committee Appointment Process*, and view *Council Agendas* which include committee reports.

What's new about the preference form?

- Now open to all ACS Members
- New features like filtering and search make it easier to review committees
- Make your choices based on how your interests and skills match the work of the committee
- New user-friendly features like auto-save
- And much more...

Why Join an ACS Committee?

- Make an impact in areas important to you
- Expand your knowledge of ACS governance
- Develop new skills
- Participate virtually or in-person

What Do Committees Do?

- Advance the mission and vision of the Society
- Represent, involve, and serve members
- Develop and deliver potential policies for the Society

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Silicon Valley ACS Members with 50+ Years of Membership in 2022

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The following ACS Silicon Valley Members are receiving certificates of recognition issued on behalf of the ACS Board of Directors in grateful appreciation for fifty or more years of membership in the American Chemical Society.

50-Year Members
Mr. Wayne Paul Schammel
Dr. Amy Inn Mei Tsai
Dr. Martha Pass Murari
Mr. Charles Robert Connell
Mr. Paul Raymond Wentrcek
Mr. Kenneth Marshall Straub
Dr. Richard Neil Zare
Mr. Wayne H. Pitcher
Mr. Gary A. Amstutz
60-Year Members
Mr. David Vernon Myhre
Dr. Barry Martin Trost

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- Miss Sandra M. Erickson Dr. Joel M. Blatt Professor Paul J Karol Dr. Laszlo T. Juhos Dr. Juana L. V. Acrivos Dr. Ingeborg Harding Barlow Dr. Juan Haydu Dr. Donald L. Hoernschemeyer Dr. Hermann W. Pohland Dr. Catherine C Fenselau Dr. Howard M. Peters Dr. John F. Heil Dr Jean Lecocq
- Mr. John R. Blunden Dr. Richard B. Larrabee Dr. Marion H. O'Leary Mr. Dennis P. Sandoz **70-Year Members** Dr. B. Y. Abadir Dr. Elmer J. Reist Dr. Orlin D. Trapp, Jr. Dr Cassius Richards McEwen Dr. Masato Tanabe Dr. John Fried Dr. Raphael Pappo

Mr. Howard E. Goldstein



Register for the ACS Fall 2022 National Meeting

Register for ACS Fall 2022 meeting that is being held August 21-25 in Chicago at the McCormick Place Convention Center (MPCC) or virtually across the globe. The theme, "Sustainability in a Changing World," will be at the event's core programming. *Pricing and registration*

Access the official meeting program and use the filtering capabilities to find programming by division, date, session type, symposia, and time block.

What to expect at the meeting:

- Keynote Events: Covering innovation and emerging leaders in chemistry (*View Keynote Events*)
- 10,000+ Abstracts: Choose from thousands of papers and explore cutting edge chemistry (*View Technical Program*)
- Career Events: Career workshops, professional leadership development courses (*View Career Events*)
- Student Program: Get inspired for the next step in your academic career (*View Student Program*)
- Industry Focused Programming: Innovation that fuels the business of chemistry (*View Industry Focused Symposia*)
- Exposition: Check out the latest innovations in chemistry (*View Exposition*)

In the News: Interesting and Cool Science

- Targeting a human protein to squash SARS-CoV-2 and other viruses (ACS Press Release, June 29, 2022)
- Monkeypox test launched at Stanford Medicine to help combat global outbreak (Stanford Medicine News, June 22, 2022)
- Chinese institutions on the rise, but the United States holds its position at the top of the 2022 Nature Index Annual Tables (STM Publishing News, June 22, 2022)
- Hijacked-journal tracker helps researchers to spot scam websites (*Nature news*, June 22, 2022)
- Tiny fish-shaped robot 'swims' around picking up microplastics (ACS Press Release, June 22, 2022)
- Molecular glues and induced proximity: solving the undruggable (CAS Blog, June 21, 2022)
- Soy sauce's salt-enhancing peptides (ACS Press Release, June 16, 2022)
- A glucose meter could soon say whether you have SARS-CoV-2 antibodies (ACS Press Release, June 16, 2022)

How the Black Death got its start (Nature podcast, June 15, 2022)

- Science and Engineering State Profiles: Spring 2022 Update (National Science Foundation Weekly Digest Bulletin, June 16, 2022)
- **'Anti-hunger' molecule forms after exercise, scientists discover** (*Stanford Medicine News*, June 15, 2022)
- A better wig with chemistry (ACS Press Release, June 13, 2022)
- This app helps researchers explore ethical dilemmas (Nature news, June 8, 2022)

CALENDAR OF EVENTS

- July 2022 -

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17	Are Hazardous Chemical Facilities Prepared for More Natural Disasters Due to Climate Change? (ACS Webinar)
	Krista Mantsch, U.S. Government Accountability Office; Russell Pfifer, WC Environmental, LLC.
	Sponsored by ACS Webinars and co-produced with the US Government Accountability Office, ACS Chemical Health & Safety, and ACS Advocacy. 11-Noon, Online via Zoom, Free, <i>Registration required</i>
16	ACS Silicon Valley Annual Picnic and Awards Ceremony
	Sponsored by the ACS Silicon Valley Section 4-7pm, Cuesta Park, Mountain View, CA, <i>Registration required</i> (deadline
	July 13th)
120	Polymeric Fibers with Novel Antibacterial and Antiviral Functions Prof. Gang Sun, Department of Biological and Agricultural Engineering, University of California, Davis
	Sponsored by the Golden Gate Polymer Forum 6:30-7:30pm, Online via Zoom, Free/\$5 donation, <i>Registration required</i>
	(Registration deadline: July 19, 1pm)
28	Starting a Company: How to Set Up Essential Business Contracts (ACS Webinar)
	Jim Verdonik, Innovate Capital
	11am-Noon, Online via Zoom, Free, <i>Registration required</i>
	- August 2022 & Beyond -
ıg 22-25	ACS Fall 2022 National Meeting: Sustainability in a Changing World Chicago, Illinois and virtually (hybrid meeting), <i>View program and</i> <i>register</i>
p 10	Moving the Needle: How key interventions can increase diversity, equity, and inclusion in STEM
	Malika Jeffries-El, Assoc. Dean Graduate School in Arts and Sciences, Assoc. Prof. Dept. Chemistry and Div. Materials Science, Boston University
	Sponsored by the ACS California Section's Women's Chemists Committee 10:30am-Noon, Online via Zoom, Free, <i>Registration required</i>
t 19-22	ACS Western Regional Meeting 2022: Empower the Chemist for a Better Tomorrow
	Sponsored by the ACS Southern Nevada Local Section Flamingo Hotel & Convention Center, Las Vegas, Nevada, <i>Learn more</i> and submit abstract
ov 10	3rd Bay Area Chemistry Symposium Sponsored by the ACS California and ACS Silicon Valley Sections together with Merck, Genentech, Gilead, Novartis, Maze, AbbVie, and Cytokinetics
	Pauley Ballroom, UC-Berkeley, 8am-5pm More details will be posted at: https://www.bayareachemistrysymposium.com/
wound	up: A reversible molecular whirligig (ACS Press Release, June 6

- All wound up: A reversible molecular whirligig (ACS Press Release, June 6, 2022)
- Tracking sleep with a self-powering smart pillow (ACS Press Release, June 2, 2022)
- U.S. R&D Increased by \$62 Billion in 2019 to \$667 Billion; Estimate for 2020 Indicates a Further Rise to \$708 Billion (National Center for Science and Engineering Statistics (NCSES) Infobrief, June 1, 2022)
- Monkeypox: scientifically, how worried should we be? (CAS Blog, May 31, 2022)

ACSLocal Section Polymer Chemistry and Luther aterials of Fretted Instrume

DR. STEVEN POLLACK llow Rose Lutherie Carbon, Inc

ACS Silicon Valle K-12 Science Educators - get a 2021 BUBBLE Grant I' your classroom, The SVACS BUBBLE Grant supports 13 taashare wish funde to facilitate teasthing science

Tor your classroom. I've S VALS BUBBLE Grant supp K-12 teachers with funds to facilitate teaching scie

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ENGINEERIN

February 2021 7 pm PST



Wastewater-based epidemiology during the COVID-19 pandee and into the future

14 April 2021 | 6 pm PST

Chemical Conundrums in the Movies

PROFESSOR MARK GRIEP

University of Nebrasha-Lincoln

For more information and to Registration is free and

DR. ROLF HALDEN Arizona State University

ACS Silicon Valle

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ACS 2022 Volunteer of the Year Award

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Nalley Cell Section

Dr. Eefei Chen UC Santa Cruz Chemistry Department



Dr. Asart Startin Dipselar

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Have you noticed how colorful and joyful the front page of our newsletter has become? This uplifting introduction to section events and scientific topics is created by an extraordinarily talented chemist, graphic artist, and member of our section - Dr. Eefei Chen. When she's not immersed in measuring protein folding and function using nanosecond time-resolved circular and linear dichroism spectroscopies

in her UC Santa Cruz lab, Dr. Chen is improving the aesthetics of science.

Central to her talent is the ability to pictorially represent the essence of scientific concepts and events. Nowhere is this more appreciated than in outreach to the nonscientific public, though we chemists love witnessing our technical topics rendered in beautiful artistic forms.

Her posters have become the primary medium to invite members of the Silicon Valley section as well as the broader community to join us in a variety of activities like our community college *mentorship program*, the Bubble Grant for K-12 science teachers, the annual SVACS picnic, the theatrical playbill for the NoBelles performances, our monthly seminars, and many more.

Others have taken note of Dr. Chen's talents visualizing science through the universal language of pictures. This year she was awarded a Volunteer of the Year award by ACS national in recognition of the immeasurable efforts made by an ACS volunteer who conducts outreach and teaches the public about chemistry. The ACS presents awardees with a small gift and a certificate during a meeting or event. They are also recognized at the annual ChemLuminary Awards, on social media, and in a special article in Chemical & Engineering News.

Congratulations, Eefei! We are so proud and fortunate you contribute generously and impactfully to our Silicon Valley ACS community.

How One Company

is Making

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Chief Scientific Officer

-founder or Huue

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tainable dyes 19 August 2021

Dr. Tammy Hsu

20 May 2021 | 6 pm PST

Silicon Valley AC Annual Picnic & Aw Come celebrate togethe wine- & beer-tasting good food

> urday, 17 July 2021 Park Group BBQ Area #1 Mountain Viev

Turn negative thoughts into positive actions Emory University Department of Chemistry Professor Jen Heemstra 11 March 2021 4 pm PST

NDROME

A Mussles Guide to Harry Potter's Chemistry PROFESSOR REBECCA LAI University of Nebraska-Lincoln 17 June 2021 6 pm PST

For more information and to register for this seminar rer more inportation and to register per une seminar of to stack orby Registration is free and required to receive a zoom links

Beyond Benign Green Chemistry Education



Beyond Benign provides educators with the tools, training, and support to make areen chemistry an integral part of chemistry education.

During the great talk that **Dr. John Warner** gave at the annual joint meeting of ACS Silicon Valley and the Golden Gate Polymer Forum on June 23, 2022, he mentioned Beyond Benign, a website and initiative that was co-founded by Dr. John Warner and Dr. Amy Cannon. Below is text reprinted from the Beyond Benign website.

The Challenge - Society depends on the molecular building blocks (chemicals) that are the foundation of the products we use. From lifesaving pharmaceutical drugs to high performance materials - without chemicals and chemical products our standard of living would significantly decline. The challenge is to provide society with essential chemical products, while maintaining chemical products that are economical, sustainable, and high performing.

Our Approach – Green Chemistry is the design of chemical products that reduce the use or generation of hazardous substances. By supporting educators and students to teach and learn green chemistry and sustainable science in K-20, Beyond Benign is equipping the next generation of scientists and citizens with the tools required to design and select products that support human health and the environment.

What we do - Beyond Benign develops and disseminates green chemistry and sustainable science educational resources that empower educators, students, and the community at large to practice sustainability through chemistry.

We work directly with educators and a network of strategic partners focused on science education, sustainability, innovation, and initiatives supporting human and environmental health to provide an educational continuum from K-12 to higher education with an important community engagement component.

K-12 TEACHER TRAINING over 5,900 K-12 teachers trained	COMMUNITY ENGAGEMENT over 30,000 students, teachers and community members reached	HIGHER EDUCATION over 50 college and university Green Chemistry Commitment signers
GREEN CHEMISTRY CURRICULUM over 200 lesson plans and educational units	COLLEGE STUDENT FELLOWS over 365 college fellows trained	

Our Service and Impact

Theory of change – Education is central to creating lasting change in any movement. Through green chemistry education, we can catalyze green technological innovations that result in less hazardous materials, products, and processes in support of a sustainable, healthy society.



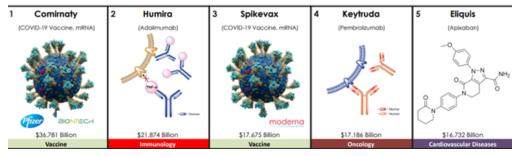
Green Chemistry Teaching and Learning Community

Set to launch in 2023, the Green Chemistry Teaching and Learning Community (GCTLC) is a new online community resource sharing and networking hub being co-developed by Beyond Benign and the ACS Green Chemistry Institute.

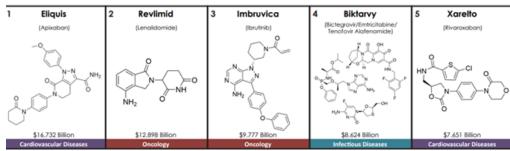
Read more about the GCTLC

Top Pharmaceuticals Posters

https://njardarson.lab.arizona.edu/content/top-pharmaceuticals-poster
Compiled annually by lab group members of Jón Tryggvi Njardarson, University of Arizona.
Top 200 Pharmaceuticals by Retail Sales in 2021 Compiled and Produced by M. Haziq Qureshi from the Njarðarson Group (The University of Arizona)



Top 200 Small Molecule Pharmaceuticals by Retail Sales in 2021 Compiled and Produced by M. Haziq Qureshi, Ryan Williams, and Christopher Marshall from the Njarðarson Group (The University of Arizona)



About: "TOP 200 DRUGS: As part of our efforts to educate students about how chemistry positively impacts our lives, my research group has created the pharmaceutical posters which can be downloaded for free as high-resolution PDF files from our website. We envisioned that this attractive graphical information would be a useful tool for teaching both undergraduate and graduate students in addition to serving as a springboard of ideas for researchers interested in the development of new synthetic methods and strategies. I hope everyone enjoys these posters as much as we have and I encourage all visitors to download them and use for teaching, fun chemical browsing, research purposes or even

How Gas Stoves Pollute Your Home



"Many of us love our gas stoves. But unfortunately, they can create indoor pollution levels that exceed legal outdoor pollution levels. This video dives into the science of how these pollutants are created, and what we can do about it." *Reactions Science Video*, posted June 1, 2022. *Watch video and view sources for more information*

as an attractive and accessible graphical summary to help communicate to the public the critical role organic chemistry plays in the development of new medicines. New posters are completed and posted late in April every year. Poster information was gathered by the Njardarson group with data from DrugTopics & Pharmacompass."

Wildland Fires: Toward Improved Understanding and Forecasting of Air Quality Impacts

Proceedings of a National Academies of Sciences, Engineering, and Medicine Workshop (2022)

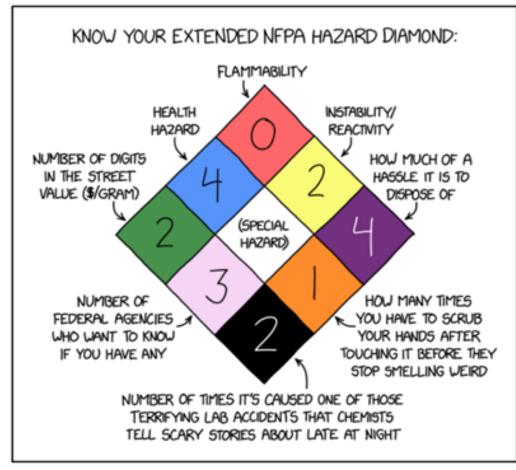


"Wildland fires pose a growing threat to air quality and human health. Fire is a natural part of many landscapes, but the extent of area burned and the severity of fires have been increasing, concurrent with human movement into previously uninhabited fire-prone areas and forest management practices that have increased fuel loads. These changes heighten the risk of exposure to fire itself and emissions (smoke), which can travel thousands of miles and affect millions of people, creating local, regional, and national air quality and health concerns.

To address this growing threat, the National Academies brought together atmospheric chemistry and health research communities, natural resource managers, and decision makers to discuss current knowledge and needs surrounding how wildland fire emissions affect air quality and human health. Participants also explored opportunities to better bridge these communities to advance science and improve the production and exchange of information. This publication summarizes the workshop discussions and themes that emerged throughout the meeting."

Download free PDF, read for free online, or purchase paperback version

Science Humor: Extended NFPA Hazard Diamond



Source: https://xkcd.com/2638/ (xkcd - a webcomic of romance, sarcasm, math, and language)

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 you to the section and in order to get to know you, the Executive Committee offers new members a free dinner at a monthly section seminar meeting, once we return to meeting in person! 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. The seminar meetings are held at several local venues. 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 the autumn. 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

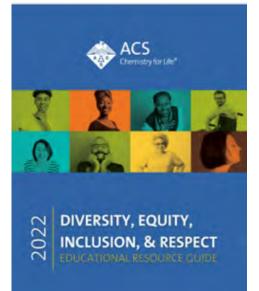
Vangelis Aktoudianakis Barry Aldous Paul Allegretti Carolyn Alvarez Laura Bald John Michael Bennett Michael Corbett Christopher Discolo Lucas William Erickson Paul A. Gibbons Nandini Gundaram Suresh Alexander Heyer Gabriela C. Huynh Ryan Putnam Jones Samuel Khamis Paul Koo Jiayi Li Daniel Massana Roquero Andrew Maynes Sung Park Lance Pickens Kacper Rogala David Santiago Sogol Teschler Jasmine Wiese Kati Wright

Safety Humor: Lab Rules Parody



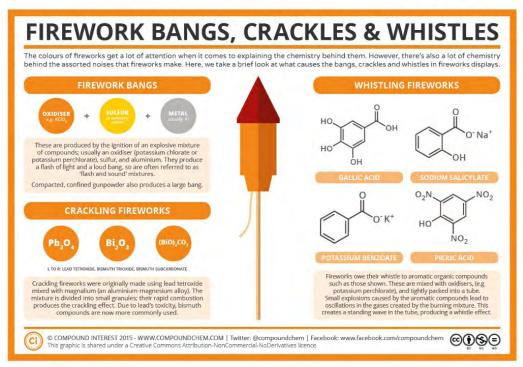
Lab Rules, a low-cost science parody of Dua Lipa's official music video New Rules! Posted by AsapSCIENCE. *Watch video*

New DEIR Educational Resource Guide Available



Download this educational guide for recommendations on videos, articles, books, podcasts, and more on diversity, inclusion, and related topics.

The Office of DEIR is proud to announce the release of their new 2022 DEIR Educational Resource Guide. The Guide contains a nonexhaustive list of resources meant to provide further enrichment and education on common DEIR topics and terms, such as allyship, microaggressions, unconscious bias, and more. It is meant as a starting point for those interested in learning more about DEIR issues. Learn more about ACS' Office of Diversity, Equity, Inclusion, and Respect by checking out their website or by contacting them at diversity@acs.org.



Enlarge image. Learn about The Chemistry of Fireworks: Bangs, Crackles & Whistles

2022 Section Officers

Chair	Stephanie Benight	206-604-3163	sbenight@gmail.com
Chair-Elect	Natalie McClure	650-906-7831	nmcclure@drugregulatoryaffairs.com
Past-Chair	Jigisha Shah	315-289-5115	jssheth@syr.edu
Secretary (2022)	Laura Yeager	626-826-3145	laura.yeager123@gmail.com
Treasurer (2022-2023)) Ihab Darwish	650-624-1389	darwishis@yahoo.com
Councilors			
2020-2022	Matt Greaney	510-410-0195	greaney19@gmail.com
2020-2022	Madalyn Radlauer	408-924-5482	madalyn.radlauer@sjsu.edu
2021-2023	Grace Baysinger	408-410-6105	gracebaysinger@gmail.com
2021-2023	Natalie McClure	650-906-7831	nmcclure@drugregulatoryaffairs.com
2022-2024	Linda Brunauer	408-554-6947	lbrunauer@scu.edu
2022-2024	Jane Frommer	408-927-2225	jane@collabra.net
2022-2024	Sally Peters	650-447-3027	sallybrownpeters@gmail.com
Alternate Councilors			
2020-2022	Todd Eberspacher	650-723-2505	eberspacher@stanford.edu
2020-2022	Avni Gandhi	626-831-8230	avni.caltech@gmail.com
2020-2022	Heddie Nichols	310-435-2133	hnichols105@gmail.com
2021-2023	Howard Peters	650-447-3027	Peters4pa@sbcglobal.net
2021-2023	Dipti Shingnapurkar	408-242-0674	doc.dipti@yahoo.com
2022-2024	Megan Brophy	503-407-1133	brophymegan@fhda.edu
2022-2024	Anais Nguyen	415-828-6941	anaisn@fastmail.com
Newsletter			
Editor	Grace Baysinger	408-410-6105	gracebaysinger@gmail.com
Assoc. Editor	Jane Frommer	408-927-2225	jane@collabra.net



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

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

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