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SILICON VALLEY CHEMIST

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7th Annual Flavors of Chemistry Complex Flavor Creation: Eliciting Emotion with Chemicals



The ACS Sacramento Section is pleased to announce that the 7th Annual Flavors of Chemistry will be occurring in-person at UC Davis with a live-stream on Saturday, September 25th. The presentation will be from 2:30-4 PM, with a networking social starting at 2 PM. This free event will feature Dr. Sean LaFond talking about flavor creation. You will receive the Zoom link in the confirmation email after you register. This event will follow the UC Davis' COVID-19 safety protocols. As the event gets closer, please check the

registration page for updates on any changes. Download flyer

Tentative Schedule:

2-2:30 pm	Networking and coffee		
2:30-3 pm	Welcome		
3-4 pm	Presentation: Complex Flavor Creation		
	Eliciting Emotion with Chemicals		

Abstract

The food we eat, the beverages we drink, and the environment we live in are filled with a vast array of volatile chemical compounds. Despite the chemical complexity in the world around us, we are capable of perceiving complex mixtures as single percepts: a strawberry tastes like strawberry; an egg tastes like an egg; a bourbon whiskey tastes like bourbon whiskey. Join me for a discussion about the psychophysical continued on next page



Chair's Message

Jigisha Shah



learning. It's not clear when younger kids will be able to get their shot, prolonging our challenges to protect children from getting sick and to curb the spread of COVID-19. Following initial hopes that

As I sit down to write this message,

the school year has sprung again! If

you are a parent of a kid under the age

of twelve like me, you are probably

dealing with the stressful dilemma

of unvaccinated children returning to

in-person learning, a move that many

see as crucial to kids' well-being and

in early fall, experts now believe that the U.S. Food and Drug Administration is not likely to grant that authorization until late November. (Here's the latest on COVID-19 vaccines). In the meantime, experts say we already have some powerful pathways to

protecting kids from the Delta variant: vaccinating more adults and employing measures at schools like air cleaning, air circulation and wearing masks. I wish you all a safe, healthy and happy

school year!

And with the fall semester, National Chemistry Week (NCW) is right around the corner—October 17-23! This year's theme is "Fast or Slow ... Chemistry Makes It Go!". The focus is on the exciting and kinetic world of reaction rates, including how temperature, pressure, concentration, the presence of a catalyst, and more affect how fast or slow a reaction happens. Back by special request this year for NCW, we're being welcomed back to the Redwood City Library with a new Pop-Up Chemistry session to celebrate! Whether we meet in person for hands-

7th Annual Flavors of Chemistry, continuned from front page

underpinnings of complex flavor perception and how to leverage them to build flavors from their molecular components.

Biography

Sean LaFond is the Director of Flavor for *Verofolia*, located in Healdsburg, CA, as well as a scientific consultant for *Edible Odyssey* in Davis, CA. During the past fifteen years, Dr. LaFond has worked on numerous projects in the food industry and academia. His research interests encompass the creation of complex flavors and the sensory methods to evaluate them. He holds a MS in Food Science from the University of Illinois at Urbana-Champaign where he studied lipid oxidation in frying oils, and a PhD in Food Science from the University of California at Davis where he studied the sensory perception of flavor blending.

Chair's Message, continuned from front page

on experiments or provide pick-up kits followed by a zoom session will depend upon the pandemic situation in October. Stay tuned for more details!

The next SVACS talk will be on Thursday, October 21. Dr Mike Idacavage of Radical Curing will speak over Zoom about photopolymers in coatings, inks, and 3D printing. Check the newsletter or our website for more information.

The election for 2022 SVACS local section officers takes place in November. I would like to thank the nominations committee and congratulate them for a wonderful slate of candidates. I would also like to encourage you to consider submitting one or more petition candidates. See the article in this newsletter for further information on the ballot and petition process.

In ACS National news, starting on January 1, 2022, current and prospective ACS members will be able to choose from several new ACS membership packages that feature different levels of benefits. No matter where you are in your academic or professional life, these new options will provide you with more flexibility to choose the package that best fits you, and with dues that are lower than they are today. There will even be a no-dues option that includes limited benefits. More details are available on the *ACS website*.



UPCOMING EVENTS

Sep 2	ACS Career Consultant Virtual Office Hours - Special Edition: Industry vs. Academia - What to Expect? Dr. Lori Spangler, ACS Career consultant Sponsored by the American Chemical Society 9am-10am (Pacific Time), Online via Zoom, Free, Learn more and Register
Sep 9	Ladies in Waiting AND Still Waiting for the Nobel Prize Professor Mary Virginia Orna, College of New Rochelle Sponsored by the ACS San Diego Section 6pm-8pm, Online via Zoom, Free, <i>Learn more and register</i>
Sep 9	The 31st First Annual Ig Nobel Ceremony Presenters include Frances Arnold and Barry Sharpless Sponsored by Improbable Research 3pm-4pm, Online on YouTube, Free, <i>Learn more</i> (no registration required)
Sep 15	Future of Work – Reimagining the New Workplace: Online Pop-Up Conference (<i>Learn more</i>) Sponsored by Stanford Center for Continuing Medical Education 8am-3pm, Online via Zoom, Registration fee \$50, <i>Buy tickets</i>
Sep 18	Air Pollution in High Definition: Building Low-Cost Sensor Networks & Community Partnerships Dr. Alexis Shusterman and Dr. Chelsea Preble, University of California at Berkeley Sponsored by the ACS California Section, Women Chemists Committee 10:30am-Noon, Online via Zoom, Free, Learn more and register
Sep 22	Improved Energy and Information Collection from Light with Nanomaterials Professor Oscar Vazquez-Mena, University of California at San Diego Sponsored by the ACS San Diego Section 7pm-8pm, Online via Zoom, Free, <i>Learn more and register</i>
Sep 25	 7th Annual Flavors of Chemistry: Complex Flavor Creation Dr. Sean LaFond, Director of Flavor for Verofolia and Consultant for Edible Odessy Sponsored by the ACS Sacramento Section 2-4pm (Presentation is from 3-4pm), In-person with Livestream, Free, <i>Learn more and register, Download flyer</i>
Sep 28	ACS Virtual Career Day - Inspiring Women in Chemistry: Career Conversations Driven by Pfizer Sponsored by the American Chemical Society 8:30am-1:15pm (Pacific Time), Online via Zoom, Free, Learn more and register
Sep 30	Folding Sequence-Defined Peptoid Polymers into Protein Mimetic Nanostructures Dr. Ronald Zuckermann, Biological Nanostructures Facility, The Molecular Foundry, Lawrence Berkeley National Laboratory Sponsored by the Golden Gate Polymer Forum 6:30-7:30pm, Online via Zoom, \$5 donation/free, <i>Registration</i> <i>required</i> (registration deadline is Sept. 28th at 1pm) <i>continued on next page</i>



Future of Work – Reimagining the New Workplace: Online Pop-up Conference

Sponsored by Stanford Center for Continuing Medical Education

The future of work is a hot topic that touches the lives of people across industries and geographies, from the C-Suite to the entry-level employee. Learning organizations must adapt accordingly to implement hybrid workplace practices and solutions as well as deliver captivating and impactful educational experiences. As trends emerge and guidelines become best practices, everyone is turning to experts and each other for ideas on reimagining the new workplace. Join us for an online pop-up conference on the Future of Work, which aims to tackle some compelling questions around the future of work as it relates to business, education, and events.

September 15, 2021 from 8am-3pm Registration fee \$50, *Buy tickets Visit this website for more information*

Toward a COVID-19 breathalyzer for kids



"Adults infected with SARS-CoV-2 exhale different metabolites in their breath than uninfected people, and dogs and diagnostic devices can detect these changes. Now, researchers reporting in *ACS Infectious Diseases* have shown that children infected with SARS-CoV-2 also show breath metabolite changes, but they're largely different from the ones in adults. Someday, this information could be used to quickly and easily screen children for infection, the researchers say.

Currently, COVID-19 is diagnosed through the detection of specific viral nucleic acids or antigens, but these techniques are slow, relatively expensive, sometimes uncomfortable and prone to false-negative results. Scientists have observed that dogs can detect volatile organic

UPCOMING EVENTS (continued)

Oct 5	ACS Converge: Conversations on Real-World Applications of Science Sponsored by the American Chemical Society 8am-11am (Pacific Time), Online via Zoom, Free, <i>Learn more and</i> <i>register</i>
Oct 17	CHAS Workshop: Empowering Academic Researchers to Strengthen Safety Culture Sponsored by the ACS Chemical Health and Safety Division 11am-3pm (Pacific Time), Online via Zoom, \$25, <i>Learn more and</i> <i>register</i>
Oct 21	Photopolymers used in coatings, inks, and 3D printing materials Mike Idacavage, Ph.D., Radical Curing Sponsored by the ACS Silicon Valley Section Save the date!
Oct 20-23	Rocky Mountain Regional Meeting (RMRM) Sponsored by the ACS Southern Arizona Section Live, in-person event with virtual attendance and presentation options, <i>Learn more and register</i>
Oct 26-27 and 29	Adhesion Science: Principles and Practice (3-Day Live Virtual Short Course) Professor Timothy Long, Arizona State University; Professor David A. Dillard, Virginia Tech; Professor Mike Bortner, Virginia Tech; Dr. Giles Dillingham, BTG Labs Sponsored by the Golden Gate Polymer Forum Early registration \$400 (ending July 16 at 5pm Pacific Time), Regular registration \$500 (until October 4 at 5pm Pacific time). Learn more and register
Nov 5	2nd Annual Bay Area Chemistry Symposium Sponsored by the ACS California and ACS Silicon Valley Sections Online only, <i>Learn more and apply to register</i>
Dec 7	Charles Rand, Ph.D., Manager of Materials Science, Checkerspot Title: To be announced Sponsored by the ACS Silicon Valley Section Save the date!

compounds (VOCs) in human biological samples and distinguish certain diseases, including COVID-19. Researchers have also developed a sensor array to detect COVID-19-related VOCs in the exhaled breath of adults. Audrey Odom John and colleagues wondered if children infected with SARS-CoV-2 would also show changes in breath metabolites. If so, a breathalyzer-type device might someday quickly and comfortably screen large numbers of children in settings such as schools."

Read the full text of the press release (published August 4, 2021)

Read the article: Amalia Z. Berna, Elikplim H. Akaho, Rebecca M. Harris, Morgan Congdon, Emilie Korn, Samuel Neher, Mirna M'Farrej, Julianne Burns, and Audrey R. Odom John. 2021. Reproducible Breath Metabolite Changes in Children with SARS-CoV-2 Infection. *ACS Infectious Diseases*, Article ASAP.

DOI: 10.1021/acsinfecdis.1c00248 (ACS Author Choice article – open access) Learn more: Chemistry in Coronavirus Research: A Free to Read Collection from the American Chemical Society

Teacher-Scholar Award Call for Nominations of Community College Faculty Members Deadline is November 1, 2021

You probably know a community college science educator whose work is deserving of recognition.Celebrate them by submitting a nomination for this Silicon Valley ACS Award.

The *Teacher-Scholar Award* is given to community college science faculty member who has made an outstanding contribution to their chemistry students and communities.

This award is the first of its kind and was established in 2008 by our Silicon Valley ACS local section in recognition of the important role that community colleges play in science education. Over half of STEM graduates from UCs and CSUs started at a California community college!

The recipient of the Teacher-Scholar Award is recognized in a public ceremony and receives

an ACS plaque and two \$500 checks - one for the awardee and one for the awardee's science department.

Eligibility criteria: Any faculty member from the 13 community colleges in the Silicon Valley ACS local section's territory of San Mateo, Santa Clara, Santa Cruz, San Benito and Monterey Counties. ACS membership is not a prerequisite.

Selection criteria

Nominees must exemplify two or more of the following:

- Excellent teaching in lab and classroom
- Extensive mentoring and encouragement of students toward academic success
- Collaborations with local high schools or fouryear colleges and universities, leading to more

student transfers and matriculation

- Supervision of undergraduate research
- Published articles and books related to chemistry education
- Participation in projects promoting innovative teaching methods and undergraduate research
- Development and dissemination of teaching innovations
- Exceptional contributions to the operation of the college's chemistry department
- Public outreach
- Contributions to the local community, for example through the K-12 system or local agencies
- Substantial service to the American Chemical Society and its affiliated groups

Nominating is easy! Please contact Kathleen Armstrong at *armstrongkathy@fhda.edu* to receive a nomination form.

* * *



Mentoring the Transition from Community College to 4-Year College

Our Silicon Valley American Chemical Society local section piloted a peer-mentoring program in Spring 2021 to support community college students considering transfer to 4-year institutions, Paving the Path. The program objective was to help STEM students from underrepresented groups transition from community colleges into bachelors-level degree programs. Five prospective transfer students were paired one-on-one with five students who have already made the transition to a 4-year college. In addition to oneon-one mentoring, the program provided group forums on a range of relevant topics: navigating the application process, financial aid, academic advising, resume-building, personal and career development, and professional networking.

One particularly effective forum was a career panel of four local chemistry professionals who initiated their own educations in California community colleges, co-hosted by the SVACS Younger Chemists Committee (YCC). They related their professional journeys and answered questions in moderated discussion. Breakout rooms then provided a setting for informal conversation and opportunity to network.

Additional perks for the mentees was modest

funding to defray application fees. Full ACS membership was provided to all the participants. In exchange for the abundance of resources provided to both mentors and mentees, accountability in performing assignments and follow-up was expected from all participants. As a pilot program,

Paving the Path continuously solicited student feedback to improve the effectiveness of future mentoring programs for students in chemistry-related disciplines.

Paving the Path's pilot year included community college students from Hartnell College, Foothill College, Evergreen College, and City College of SF. Mentors participated from San Jose State University, UC Santa Cruz, and UC Irvine.

The long term SVACS goal is to *build a system* of support and resources for transfer students with chemistry-related interests in community colleges in our region. Plans are being made to repeat the program with the incoming class of students.

Interested in participating in the program as a mentor, mentee, or forum-presenter? Contact us! ptp@svacs.org

How Chemistry Makes Carbon Dioxide Removal Possible Reactions - Uncover the Chemistry in Everyday Life



"Over the last couple hundred years, the amount of carbon dioxide in our atmosphere has skyrocketed. If we don't remove at least some of it, there will be even more heat waves, wildfires, hurricanes and other climate disasters, scientists predict. In this week's episode, we break down how people are using chemistry to make that happen."

View the video and see related links: *How Chemistry Makes Carbon Dioxide Removal Possible*. Reactions Science Video, Published July 07, 2021 (7:39 minutes).

Elections for 2022 Silicon Valley ACS Leadership

A message from the Nominations Committee This fall, you have the opportunity to elect members of our section to the 2022 Silicon Valley ACS Executive Committee in our annual election! The official online ballot will be sent out in October by email to all eligible section members. We would like to take this opportunity to present this year's candidates and to remind all of you that if you are interested in joining the leadership team, you can still petition to be on the ballot if you submit by September 30, 2021 (instructions below).

We have seven open positions this year including Chair-Elect, Treasurer, Councilors, and Alternate Councilors. Descriptions of these positions are available on *our website*. On behalf of the current Silicon Valley Section Executive Committee, the Nominations Committee is pleased to present the following group of candidates. Please feel free to reach out to any of the current Executive Committee members if you have questions about the election process (our contact information can, as always, be found on the last page of the monthly newsletter).

Our slate of candidates

Chair-Elect (3-year commitment, will be Chair in 2023 and Immediate Past Chair in 2024)

□ Natalie McClure Treasurer (2-year term)

Ihab Darwish

Councilor (3 open positions; the three candidates

with the most votes will fill 3-year position)

- Linda Brunauer
- Ihab Darwish
- Jane Frommer
- □ Sally Peters

Alternate Councilor (2 open positions: the two candidates with the most votes will fill 3-year positions)

- Megan Brophy
- Anais Nguyen

How to petition to be on the ballot

This is a call for nominations of petition candidates. Properly completed petitions received by the due date of September 30, 2021 at 5 p.m. local time will appear on the ballot. Petitions can be sent to the attention of our section Secretary, Prasad Raut (*prsdraut@gmail.com*).

Requirements for petition candidates include:

- the name of the proposed candidate
- the proposed position
- 15 supporting SVACS member names, signatures, and ACS membership numbers
- submission by email of the completed petition (as a PDF) by September 30, 2021 at 5 p.m. local time to the SVACS Secretary.

All candidates must be members of the Section and must be willing to serve. According to ACS Bylaws, affiliate members may not participate in the election. Student members may vote and sign petitions, but they may not run for office.

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 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 companion 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 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

Nadia Berndt Marie-Gabrielle Braun Matthew Brown Nathaniel Brown Jingwei Cai Kristy Chun Daniella Duran Tim Erdmann Marion Joseph Gattuso Cheryl A. Grice Sarah Highducheck Yue Huang Sophie Marwieh James Elena Koltun Shy Lavasani Arlie Lehmkuhler Mojgan Lotfali Kazemi Wenchao Lu Eugene P. Marsh Martin McLaughlin Heather Murphy Ajit Narang Zihao Ou Joseph Perryman Fiona Rosko Christina Rotsides Zhe Rui Lucero Sandoval Kasturi Sarang Devon Schatz Jacqueline Shea Swarna Shikha Min Jeong Suh Hua Yang Peng Yue Ziyang Zhang

The 2021 Ig Nobel Prize Ceremony & Webcast



"The 31st First Annual Ig Nobel Prize ceremony will happen on Thursday, September 9, 2021, beginning at 3 pm (Pacific Time). Because of the Covid-19 pandemic, the ceremony will again be entirely online. There will be a special livestream in Japanese (on the Nico Nico network). There might also be a special livestream in Spanish (that's not definite yet, but we are hopeful.)

Ten new Ig Nobel Prize winners will be introduced. Each has done something that makes people LAUGH, then THINK.

The prizes will be handed out by this gaggle of Nobel laureates:

Rich Roberts (physiology or medicine, 1993) Frances Arnold (chemistry, 2018) Marty Chalfie (chemistry, 2008) Eric Maskin (economics, 2007) Barry Sharpless (chemistry, 2001) Robert Lefkowitz (chemistry, 2012) Carl Weiman (physics, 2001) Eric Cornell (physics, 2001) Jerome Friedman (physics, 1990)

The theme of this year's ceremony is ENGINEERING. A new mini-opera, called "A Bridge Between People", amplifies that theme.

The ceremony will also include the 24/7 Lectures, in which the lecturers explain their topic first in 24 SECONDS, then in seven WORDS.

This year's lecturers and their topics:

Gwinyai Masukume: Drinking Coffee Françoise Brochard: Soft Matter Chaouki Abdallah: Feedback Control Patricia Yang: Excretion Dynamics Iman Farahbakhsh: Baby-Washing Technology" For details, see the ceremony web page: https:// www.improbable.com/ig/2021-ceremony/



Media Briefings for the ACS Fall 2021 National Meeting

The American Chemical Society posted media briefings for selected presentations given at ACS Fall 2021 National Meeting.



Video: Titan-in-a-glass experiments hint at mineral makeup of Saturn moon

Press release



Video: How migraines protect against diabetes

Press release



Video: Possible new antivirals against COVID-19, herpes

Press release

Video: Confirming the pedigree of uranium cubes from Nazi Germany's failed nuclear program

Press release

Video: 'Flushing' out drug use trends early in the COVID-19 pandemic

Press release

Video: Making nylon 6-6 'greener,' and without zinc

Press release

Video: Sniffing out which plantbased burgers smell the most like real beef

Press release

Video: Sugars from human milk, plants could help treat, prevent infections in newborns

Press release

Degradable coatings for compostable paper food packaging block grease and oil (no video available)

Press release



Video: Detecting an unprecedented range of potentially harmful airborne compounds

Press release



Press release



ACS FALL 2021

16:21



CS FALL 2021





24:50

21:43

Press release

Video: Protecting gardens and crops from insects using the 'smell of fear'

Press release

Video: Compounds that give coffee its distinctive 'mouthfeel'

Press release















ACS FALL 2021



Register for free on the ACS Webinars page



Date: Wednesday, September 8, 2021 @ 2-3pm ET Speaker: Bill Carroll, Carroll Applied Science Moderator: Tom Halleran, American Chemical Society



Date: Thursday, September 9, 2021 @ 11am-12pm ET Speakers: H.N. Cheng, 2021 ACS President / Frank Roschangar, Boehringer-Ingelheim and ACS Pharmaceutical Roundtable / Klaus Kümmerer,

Leuphana University

Moderator: Mary Kirchhoff, ACS Scientific Advancement



Date: Wednesday, September 22, 2021 @ 2-3pm ET Speakers: Patricia Redden, Saint Peter's University / Joey Ramp, Empower Ability Consulting, LLC / Ashley Neybert, Independence Science Moderator: Partha Basu, Indiana University-Purdue University Indianapolis



Date: Wednesday, September 22, 2021 @ 2-3pm ET Speakers: Patricia Redden, Saint Peter's University / Joey Ramp, Empower Ability Consulting, LLC / Ashley Neybert, Independence Science Moderator: Partha Basu, Indiana University-Purdue University Indianapolis

How Many Chemical Elements Does It Take to Build a Car?

Detailed inventory shows that electric vehicles are more vulnerable to material supply challenges than gas guzzlers



A pinch of arsenic, a dash of krypton, a soupçon of tantalum, and a whole load of copper-these are just some of the 76 chemical elements that go into making modern automobiles, according to an exhaustive analysis of the materials found in a range of cars (Environ. Sci. Technol. 2021. DOI: 10.1021/ acs.est.1c00970).

Source: Mark Peplow. How Many Chemical Elements Does It Take to Build a Car? InChemistry, August 17, 2021.

https://inchemistry.acs.org/atomic-news/elements-to-build-a-car.html

National Institutes of Health (NIH) **Workshop on Reaction Informatics Report Published in ChemRxiv**

Citation: Warr W. National Institutes of Health (NIH) Workshop on Reaction Informatics. ChemRxiv. Cambridge: Cambridge Open Engage; 2021. This content is a preprint and has not been peer-reviewed. DOI: https://doi. org/10.33774/chemrxiv-2021-x5sj7

Abstract: "The virtual workshop took place on May 18-20, 2021. It was a follow-up from the December 2020 NIH Workshop on Ultra Large Chemistry Databases. A major theme emerging from the December 2020 workshop was the fact that all the databases of a billion or more structures are virtual. For each virtual molecule the question then arises of whether, or how, it can be synthesized. The organizers therefore assembled speakers to give presentations about how reaction-related data are represented, captured, managed in databases, analyzed, used for drug design, applied in robotics, and exchanged locally as well as globally. This report summarizes talks from 27 practitioners in the reaction informatics field. The aim is to represent as accurately as possible the information that was delivered by the speakers; the report does not seek to be evaluative. The themes, in the order used for this report, were reaction representations, file formats, and standards; sources of reaction data; AI and machine learning applications of reaction-related data in de novo drug design, synthetic accessibility, synthesis planning, reaction prediction etc.; and automation and progression toward autonomous synthesis."



Click *here* to enlarge image. Learn more about *The Materials Science of Athletics Tracks*.

2021 Section Officers

Chair	Jigisha Shah	315-289-5115	jssheth@syr.edu			
Chair-Elect	Stephanie Benight	206-604-3163	sbenight@gmail.com			
Past-Chair	Matt Greaney	510-410-0195	greaney19@gmail.com			
Secretary (2021-2022)	Prasad Raut	330-780-3689	prsraut@gmail.com			
Treasurer (2020-2021)	Ihab Darwish	650-624-1389	darwishis@yahoo.com			
Councilors						
2019-2021	Linda Brunauer	408-554-6947	lbrunauer@scu.edu			
2019-2021	Jane Frommer	408-927-2225	jane@collabra.net			
2019-2021	Sally Peters	650-447-3027	sallybrownpeters@gmail.com			
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	650-725-1039	graceb@stanford.edu			
2021-2023	Natalie McClure	650-906-7831	nmcclure@drugregulatoryaffairs.com			
Alternate Councilors						
2019-2021	Sogol Teschler	408-896-2367	sgyahyazadeh@gmail.com			
2019-2021	Laura Yeager	626-826-3145	laura.yeager123@gmail.com			
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			
Newsletter						
Editor	Grace Baysinger	650-725-1039	editor@scvacs.org			
Assoc. Editor	Jane Frommer	408-927-2225	jane@collabra.net			
ChemPloyment Abstracts						
Director	Liang Cao		Dr.LiangCao@gmail.com			



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

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