

MARCH 2023 VOLUME 45 NO. 3

SILICON VALLEY CHEMIST

TABLE OF CONTENTS

1				
1				
2				
3				
4				
C&EN Returns to the ACS Publications Division 5				
5				
6				
6				
6				
6				
7				
7				
8				
8				

Chair's Message

Natalie McClure



As societies worldwide emerge from the isolation imposed by the Covid pandemic, we all have an opportunity to adapt and evolve some of our prepandemic practices. Last month, SVACS

celebrated the *2022 Mosher Award* with an inperson gathering at Stanford University's Sapp Science Center. It was a fun evening, with Professor Zare presenting stories and challenges that he *continued on next page*



Download and share the flyer

Curating Worldwide Scientific Content

Stephen K. Boyer, PhD., Collabra, Inc.

Sponsored by the *Silicon Valley* and the *Puget Sound* Sections of ACS 7:00-8:00pm, Online via Zoom, Free, *Registration required*

Abstract

Chemical informatics technology is improving access to the text and images of patents and the scientific literature through computer-curation. In the example of a collaboration between a team of computer scientists at Google Patents and chemical informaticians at Ontochem, annotated data is produced from the patents of ~138 countries translated from ~ 58 languages as well as from Google Scholar and Books. The annotators identify entities such as chemical names, diseases, proteins, and genes that are then post-processed into machine-readable formats, normalized, and labeled with unique ontology concept identifiers (OCIDs). Chemical names and images

Curating Worldwide Scientific Content, continued from front page

are postprocessed using name-to-structure and image-to-structure programs, producing associated metadata, e.g., SMILES strings, InChIs, and InChIkeys. In this manner worldwide patents and the scientific literature are rendered searchable by structure-substructure searching. This is demonstrated on the freely available Google Patents platform. Data derived from patents are downloadable in machine-readable formats (SMILES), while data derived from the scientific literature is available via new commercial offerings such as Dimensions from Digital Science.

The output of non-copyrighted data of >54 billion scientific and related entities is donated to NIH and made available in PubChem and in Google Big Query. These collaborative efforts provide researchers access to previously unavailable resources, relevant in the areas of pharmaceuticals, publishing, health care, and environmental science. Integration of this data with massive amounts of additional scientific information contained in the Big Query environment provides a rich resource for machine-learning and widespread value for the worldwide scientific community.

Bio: Stephen K Boyer, PhD, Collabra Inc https://www.linkedin.com/in/stephen-kboyer-15529



works in the interdisciplinary space of chemistry and computer science. By automating the curation of patents and the scientific literature, his goal is to expand the scientific

Bover

Steve

community's understanding and use of published information in chemistry, the physical sciences, medicine and intellectual property.

His professional history combines ten years of synthesis and scale-up in the pharmaceutical industry (Ciba-Geigy/Novartis) with 25 years in technical capacities at IBM Research. He has participated in several start-ups and currently serves as a science advisor at Google, Digital-Science, OntoChem and several other cheminformatics enterprises. He played a major role in making patent information publicly available in the early days of the internet.

Steve holds a BA from Temple University in Philadelphia and a PhD in synthetic organic chemistry from Tufts University. His publications and patents range from new drug syntheses to text+image analytics. *https://bit.ly/3Ky5XSU*

Chair's Message, continued from previous page

faced over the years as a member of the Stanford Chemistry department, including several years as Chair. It was marvelous to see everyone again in-person and to share that friendly networking environment. But we can also acknowledge that the years of holding meetings by Zoom had some benefits. It is easy to attend an evening seminar from the comfort of one's own home and avoid the hassle of Bay Area traffic. The Zoom meetings also allow remote participation. In fact, we have had international attendance at some of our SVACS Zoom seminars. So, to enjoy the benefits from both approaches, we will be adopting a mixed schedule. We hope to hold an in-person gathering once a quarter, with Zoom seminars added to the schedule as well.

Our *next seminar* (described elsewhere in this newsletter) will be a joint meeting with the Puget Sound ACS local section, held over Zoom. On April 12, Dr. Steve Boyer will present an update on "Curating Worldwide Scientific Content" which will describe ongoing efforts to provide researchers readily searchable access to previously unavailable resources, relevant in the areas of patents, pharmaceuticals, publishing, health care, and environmental science.

Later this year, we will host Dr. P. Andrew Evans, Alfred R. Bader Chair in Organic Chemistry at Queen's College, Ontario for an encore presentation of his research. Dr. Evans was the 2020 *Mosher Award* recipient, and did not have the opportunity to present his work in-person. He will return to the Bay Area for a second presentation, this time in-person. Stay tuned to this newsletter for the details.

As my last comment for this chair's message, the *Spring 2023 ACS National Meeting* will take place later this month in Indianapolis. ACS National is also adapting to the new post-pandemic environment – the format of the National Meeting will include both virtual presentations and familiar in-person events such as the Sci-Mix poster session and the ever-popular Exposition. I hope you can participate either virtually or in-person. I'll be there in-person and look forward to connecting with friends and colleagues.

Call for Nominations Shirley B. Radding Award Deadline: May 1, 2023

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

Award recipients selected on the following criteria:

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

Please submit nomination dossier with CV and two letters of recommendation by May 1, 2023 to:

Heddie Nichols, Chair, Radding Award Committee Silicon Valley Section, American Chemical Society P.O. Box 395, Palo Alto, CA 94302-0395 or email: *hnichols105@gmail.com*

Past recipients:

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

CALENDAR OF EVENTS https://www.siliconvalleyacs.org/events/

10

vice logy (101) Champion la and their Toyle Offecto

- N	larc	h 20	023 -

		IVIUI 10	loxicology 101. Chemicals and their loxic enects
Mar 5	Empowering Academic Researchers to Strengthen Safety		Sponsored by ACS Webinars and ACS Office of Career and
	Culture Workshop		Professional Education
	Sponsored by ACS Division of Chemical Health & Safety		11am-Noon, Online via Zoom, Free, <i>Registration required</i>
	11:00am-2:30pm, Online via Zoom, \$25, <i>Registration required</i>	Mar 18	Positive Intelligence to Boost Your Leadership (Winter
		11101 10	Workshon 2023)
iviar 6	Our sciFi Future		Danielle McCombs, Life/Career Coach & Podcast Host
	for Society Dragram		Sponsored by Association of Women in Science-Northern California
	101 Society Program		Chapter
			9am-1:30pm, Lawrence Hall of Science, 1 Centennial Drive, Berkeley, CA
Mar 8	Perspectives on AI/ML in Chemistry from Academia and Industry		Cost: General \$40, AWIS "Member" \$30, Student \$15,
	Sponsored by Science of Synthesis/Thieme Publishers		Registration required View flyer
	6:00-8:00am, Online via Zoom, Free, Registration required		
Marriel	Manage in Data Calance (MIDS) Cauference	Mar 23	How Artificial Intelligence is Changing Drug Discovery
iviar 8	Spansored by Stanford's Institute for Computational and		Sponsored by ALS Webinars and the Science History Institute (SHI)
	Mathematical Engineering, Stanford Data Science		10am-11am, Online Via 200m, Free, Registration required
	8:30am-6:00nm Stanford Alumni Center and Online \$200-400	Mar 26-30	ACS Spring National Meeting 2023, In-Person & Virtual
	Registration required Learn more		Indianapolis, IN. <i>Learn more and register</i>
	Registration required Learn more		
Mar 8	International Women's Day		- April 2023 and Beyond -
	Learn more	Δnr 12	Curating Worldwide Scientific Content
Mar Q	Natura's Lipid Nanonarticles: Exercision Drug Delivery	- 1pi 12	Stephen Bover PhD. Collabra Inc
IVIUI 9	and Theraneutics		Sponsored by the Silicon Valley and Puget Sound Sections of ACS
	Sponsored by ACS Webinars and CAS		7:00-8:00pm, Online via Zoom, Free, <i>Registration required</i>
	11am-Noon Online via Zoom Free Registration required		
		Apr 13	RAMP in the Research Lab Workshop
Mar 11	Kid Makers: Pop Up Chemistry		Sponsored by ACS Division of Chemical Health & Safety
	Sponsored by Redwood City Public Library and ACS Silicon Valley		Noon-3:00pm, Online via Zoom, \$25, <i>Registration required</i>
	Section	Apr 16-22	Chemists Celebrate Earth Week
	2-3pm, Redwood City Public Library, Free, <i>Learn more</i>		Theme: The Curious Chemistry of Amazing Algae
Mar 13	Me. Myself, and Technology: How Tech Defines Us		Learn more
	Sponsored by the Stanford Graduate School of Business' Leadership		
	for Society Program	Apr 20	SSRL 50th Anniversary Celebration
	6:30-7:15pm, Online via YouTube, Free, <i>Registration required</i>		Sponsored by Stanford Synchrotron Radiation Lightsource (SSRL)
			8am-5pm, SLAC National Accelerator Laboratory, 2575 Sand Hill Road
Mar 15	Successful Transitions: Strategies for Adapting to a New Role		Menio Park, CA 94025, Free, <i>Registration required</i>
	Sponsored by ACS Webinars and ACS Younger Chemists Committee	Apr 28	21st Annual Bunnett Symposium, UC Santa Cruz Department of
	11am-Noon, Online via Zoom, Free, <i>Registration required</i>	•	Chemistry and Biochemistry
Mar 16	Bay Area Psychedelic Science Symposium		Featured lecturer Dr. John Warner, co-founder of the field of Green
	Sponsored by Stanford University Wu Tsai Neurosciences Institute		Chemistry
	9am-5pm, Stanford Neurosciences Building E241, Free,		4pm. <i>Learn more</i>
	Registration closed, join waitlist Learn more		
		Jul 28-30	Postdoc to Faculty Workshop
			Sponsored by ALS
			neiu in Chicago, Illinois (Learn more and register)

Mosher Award and Lecture



Dick Zare receives the Mosher Award plaque from Natalie McClure, Chair of Silicon Valley ACS.



Dick's last story was about the Chemistry of Cooking class that he teaches to undergraduates.

Members of the Silicon Valley ACS Section and faculty, students, and staff from Stanford University *gathered on February 24, 2023* to celebrate *Richard (Dick) Zare* receiving the well-deserved the 2022 *Harry and Carol Mosher Award*, the Section's highest award. The evening began with a networking reception with hors d'oeuvres and wine and was followed by Professor Zare's acceptance talk. He entertained with stories that provided an insider's view about the history of the Stanford Chemistry Department, why he came to Stanford, and what it was like being the Chair of the Chemistry Department. He colorfully illustrated the atmosphere of competition and collaboration that apparently exists in many academic departments by showing the music video by Salut Salon "Competitive Foursome" (*Watch on YouTube*).

The evening was capped off with Silicon Valley ACS Chair Natalie McClure presenting Professor Zare with the Mosher Award plaque.



Ruben Luo's family gave Dick a bouquet of flowers that he shared with his wife, Susan, just before he also gave her the honorarium. Several members of the Zare family attended the event too.

If you are interested in learning more about the history of Stanford's Chemistry Department, see:

- Overview and Stanford Chemistry Milestones
- Stanford Chemistry Faculty, Emeriti Faculty, and In Memoriam (Faculty)
- Hutchinson, Eric. 1977. The Department of Chemistry, Stanford University, 1891-1976: a brief account of the first eighty-five years. Stanford, California: Department of Chemistry, Stanford University.
- Mosher, Harry S. 2006. Stanford Chemistry Department, 1977-2000. (Edited by W.E. Moerner)



Salut Salon "Wettstreit zu viert" | "Competitive Foursome" online video (Watch on YouTube)



The Chemistry Building as it was built in 1902. It was renovated and reopened as the Sapp Center for Science Teaching and Learning in 2016.

Editorial: C&EN Returns to the ACS Publications Division

By Michael McCoy

C&EN executive editor for business and policy, C&EN interim editor-in-chief

Reprinted article from C&EN, published February 26, 2023

"Magazines like C&EN that are published by professional societies are unique and awkward beasts. They were created to provide members of the society with news about their profession and the society itself. Today, thanks to the internet, their reach can extend well beyond those members to interested readers worldwide.

But such magazines don't fit neatly within the societies that own them. Although many members consider a magazine the main benefit of their membership, publishing trustworthy, independent journalism is not in a professional society's skill set. Covering fields where the society has a financial interest can be fraught. Adding to the awkwardness, many society magazines have become financial burdens on their parent organizations in recent years as traditional forms of advertising have dwindled.

C&EN has long felt these tensions, including the financial one. In 2021, the American Chemical Society *transferred the magazine* from its revenue-generating Publications Division to a newly formed Communications Division, a part of the organization that is also in charge of disseminating press releases and other information about ACS. One of the reasons ACS gave for the move was to put C&EN on firmer financial footing.

The intention may have been good, but ACS leaders didn't anticipate the outcry from C&EN's journalists, who rightly equated the Communications Division with public relations and saw the move as potentially compromising *C&EN's editorial independence*—if not in fact, then certainly in perception.

Several experienced editors and reporters left C&EN after the change of division. Then in December 2022, ACS dismissed the magazine's editor in chief and one of its executive editors in a *reorganization aimed at enhancing C&EN's coverage of ACS*. Many *ACS members were dismayed by the dismissals and new mandate*, and online *letters* and *a petition* circulated urging ACS leaders to keep the magazine's focus on important stories that affect the chemistry enterprise. Another round of staffers quit, leaving the ranks severely depleted.

The turmoil at C&EN was a crisis for Al

Horvath, who was *named CEO of ACS* in November and started the job Jan. 1. In a Feb. 8 town hall meeting with C&EN staffers, he said he had spent 90% of his time in recent weeks grappling with the future of the magazine.

Two days later, Horvath announced that C&EN would return to the Publications Division. In a follow-up meeting, Jim Milne, the head of the division, welcomed the magazine back. A slate of interim editors was named to replace some of those who had left. One of them is me, C&EN's executive editor for business and policy, who will be editor in chief until a permanent top editor can be found. The other interim editors (not yet reflected on our masthead) are Laura Howes, team lead for life sciences coverage; Mitch Jacoby, team lead for physical sciences; and Chris Gorski, science news editor.

The past 3 months have been difficult for C&EN's staff, including those of us who have chosen to remain. We've had too many departure announcements and teary farewell calls on Zoom. Meanwhile, some issues of the magazine are a little thinner, and we are deviating modestly from our weekly publishing schedule. Some days our website has fewer new stories than usual, and we aren't as able to do multimedia and special projects.

But I can say with certainty that we remain dedicated to our mission of providing credible, authoritative journalism that chemical scientists need. We continue to be guided by a thorough and thoughtful *Standards and Practices* document that codifies our independence and explains how we conduct our reporting. And I am confident that we will rebuild our staff while staying true to our values of informing chemical scientists and making journalism that matters."

* * *



University of California. Santa Cruz Chemistry & Biochemistry Department's Annual Bunnett Symposium

> April 28, 2023, 4:00pm John C. Warner

Together with Paul Anastas, John has defined the field of Green Chemistry and created the 12 Principles of Green Chemistry. He has spent his life working to change the field of chemistry and the education of future chemists to ensure that all practicing chemists will one day have the necessary skills to invent truly sustainable technologies. He has co-founded the non-profit "Beyond Benign," which provides educators with the tools, training and support to make green chemistry an integral part of chemistry education, and asks University chemistry programs to incorporate the principles of green chemistry into their required curriculums.

For more information, please go to our website, www.science.ucsc.edu/bunnett-symposium-2023/.

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 SVACS seminar meeting. Come join us at our in-person dinner meetings! To register as our guest for an in-person dinner event, contact us directly to receive complimentary admission for you and a friend.

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

NEW ACS MEMBERS

Benjamin Bruxvoort Eugene L. Piatnitski Chekler Matthias Michael Fallon Shiraz Harel Kunlun Hong Thomas F. Jaramillo Zhe Ji Prasanna Kandel Mark J. Lowman

- Romain Morodo Nikol Obradovic Abigail Ramirez Paul Riehl Max Saccone Annina Sartor Patrick Skelly Jennifer Thomas
- Carlos Torres Garcia Karen Tuttle Srimukh Prasad Gang Wan Laura Wu Yufei Wu Chengshuang Zhou Qi Zhou

ACS Fellows Program

Nominations Deadline: April 1, 2023



"The American Chemical Society (ACS) Fellows Program was created by the ACS Board of Directors in December 2008 to recognize members of ACS for outstanding achievements in and contributions to science, the profession, and the Society. Read more about the *program purpose*.

The nomination period for the 2023 Class of ACS Fellows is now open. Submit a nomination from February 1 to April 1." *Learn more*

Employment Opportunity in Chemical Safety

IBM has an open position for a Chemical Coordinator. The position is located at the IBM Almaden Research Center in south San Jose, with responsibilities for western US territory. Job posting: *Americas Chemical Program Manager - San Jose, CA | IBM Careers (brassring.com)* Contact Anais Nguyen, IBM Environmental Engineer, *anaisn@us.ibm.com* with questions.







Local Science Fairs in 2023

by Susan Hines

There is still room for you to join us on both the middle and high school SVACS Synopsys Championship special award judging teams. Additionally, category awards judges are desperately needed for all of our local county science fairs. It takes just one day of your time to judge at a local science fair – and all but two (Golden Gate and San Mateo STEM Fairs) are fully in person this year! Other than Sciencepalooza! on April 22, March is your last chance to help guarantee success in these qualifiers for student advancement to Broadcom Masters, the California State Science Fair, and the International Science and Engineering Fair, ISEF.

Please contact me at *svsefmgr@gmail.com* to join our sponsored award team of dedicated chemists for the March 9, 2023, Synopsys Championship.

The following science fairs need category awards judges, especially in the areas of botany, biology, chemistry, microbiology, and behavioral science:

- San Mateo County Office of Education STEM Fair, March 4, 2023, virtual format https://stemfair.net
- Synopsys Championship: March 9, 2023 https://science-fair.org/judges-3/category-judges/judging-registration/
- Santa Cruz County STEAM Expo: March 11, 2023 https://santacruzcoe.org/educational-services/curriculum-instruction/programs-services/academiccompetitions/steamexpo/
- Golden Gate STEM Fair: March 13, 2023, hybrid format https://wp.ggstemfair.org
- Alameda County Science and Engineering Fair: March 25, 202 https://www.acsef.org/judges
- Sciencepalooza!*: April 22, 2023

https://outreach-foundation.org/programs/sciencepalooza/

*Many students at this competition are first time science fair participants.

So, no matter which fair(s) you choose, please volunteer now!

Reactions Science Videos

Reactions is a video series produced by the American Chemical Society and PBS Digital Studios. Subscribe to Reactions at *http://bit.ly/ACSReactions* and follow on Twitter @ACSReactions.

Why calcium hydroxide + corn are key to understanding Western civilization and tacos



In the world of corn tortillas, a fierce debate rages: Is it okay to make them from pre-made corn flour, or do you need to go all the way back to dried corn kernels to make truly "from scratch" tortillas? We try to settle this debate and, in the process, understand a key moment in the foundation of Western civilizations. https://youtu.be/_LKe9hmXdvM (posted Feb. 6, 2023) Starch gelatinization, retrogradation, and the world's fluffiest white bread



If you want to make the fluffiest bread possible, you're going to need to use chemistry. This week, we explore the science behind starch gelatinization, a phenomenon found in Chinese "tangzhong" and Japanese "yudane" techniques. Then, we put it to the test to see how much gelatinized starch it takes to make the fluffiest, tastiest and most stale-resistant loaf! *Watch video and check out associated sources* (posted Feb. 15, 2023)

Interesting and Cool Science in the News

10 Breakthrough Technologies 2023 (MIT Technology Review, January 9, 2023)

Advances in Lithium-Ion Battery Safety (ACS Axial, February 15, 2023)

Al in Publishing: The Ghost Writer in the Machine (ACS Axial, February 16, 2023)

AI is dreaming up drugs that no one has ever seen. Now we've got to see if they work. (MIT Technology Review, February 15, 2023)

Are your strawberries bland? Pesticides could be to blame (ACS Press Release, February 27, 2023)

Carbon-based conductor could herald cheap, bendable electronics (News from Science, February 23, 2023)

Carrots: Good for your eyes ... and for degradable polymers (ACS Press Release, February 21, 2023) *Catalytic Techniques for Upcycling Plastic Waste* (ACS Axial, February 22, 2023)

Chemical researchers discover catalyst to make renewable paints, coatings and diapers (National Science Foundation Research News, February 22, 2023)

Chemistry bots under threat from changes to Twitter's API rules (Chemistry World, February 27, 2023)

A day in the life of an experiment controls engineer (SLAC News, February 13, 2023)

Detecting rapidly mutating bacteria and viruses with AutoPLP (ACS Press Release, February 15, 2023) *DNA repair scheme gets closer look for cancer therapy* (National Science Foundation News, February 15, 2023)

From polymers to prosthetics: the growth of 3D printing in biomedicine (CAS Insights, February 11, 2023)

Gel capsules make reactions with organolithiums simpler and safer (Chemistry World, February 16, 2023)

Going Bananas Over Reducing Plant Food Waste (ACS Axial, February 23, 2023)

Harvesting Electricity from Succulents (ACS Axial, February 9, 2023)

Is nuclear energy critical in solving climate change? (CAS Insights, February 9, 2023)

Keeping drivers safe with a road that can melt snow, ice on its own (ACS Press Release, February 16, 2023)

Keeping SARS-CoV-2 closed for business with small molecules (ACS Press Release, February 8, 2023)

Lowering the risk of mother's sepsis or death after childbirth (NIH Research Matters, February 28, 2023)

Male contraceptive disables sperm (NIH Research Matters, February 28, 2023)

Mapping DNA damage from exposure to a compound in cigarette, industrial smoke (ACS Press Release, February 22, 2023)

Call for Nominations

2023 Abraham Ottenberg Service Award Silicon Valley ACS Local Section

Deadline: June 1, 2023

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

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

Please send your nomination before June 1, 2023 by e-mail to *PFRusch@aol.com* or by fax (650-961-8120) or by postal mail to:

Chair, Ottenberg Award Selection Committee Silicon Valley Section American Chemical Society P.O. Box 395 Palo Alto, CA 94302-0395 *The Micromotors Driving Injection-Free Insulin* (ACS Axial, February 13, 2023)

A more healthful, gluten-free flour made from sweet potatoes (ACS Press Release, February 13, 2023)

New advances in recycling of lithium-ion batteries (CAS Insights, February 17, 2023)

New material for computer chips could reduce energy consumption (National Science Foundation Research News, February 15, 2023)

New theory provides answers to why metals have the structures that they do (Chemistry World, February 28, 2023)

Osteopontin may play key role in Alzheimer's disease (NIH Research Matters, February 28, 2023)

Polymer shows some backbone as it becomes first with extended metal spine (Chemistry World, February 21, 2023)

Possible new way to reduce pain inspired by chickens (Stanford Medicine News, February 1, 2023)

Quantum Leap: Cooling Buildings (ACS Axial, February 14, 2023)

Reactor experiment demonstrates alternative fusion scheme (News from Science, February 28, 2023)

Researchers can 'see' crystals perform their dance moves (SLAC News, February 8, 2023)

Single drug injection wards off COVID-19 hospitalizations, in Stanford Medicine-led trial (Stanford Medicine News, February 8, 2023)

SLAC, Stanford researchers make a new type of quantum material with a dramatic distortion pattern (SLAC News, February 22, 2023)

These sports sensors could curb 'bad calls' and help players during practices (ACS Press Release, February 21, 2023)

This loofah-inspired, sun-driven gel could purify all the water you'll need in a day (ACS Press Release, February 8, 2023)

This new sensor can detect mercury ions with just a tap (video) (ACS Press Release, February 22, 2023)

Toilet paper is an unexpected source of PFAS in wastewater, study says (ACS Press Release, March 1, 2023)

Using CRISPR to detect cancer biomarkers (ACS Press Release, February 1, 2023)

Voice-activated system for hands-free, safer DNA handling (ACS Press Release, February 1, 2023)

Wood that traps carbon dioxide could make buildings cleaner and greener (Chemistry World, March 1, 2023)



Enlarge image | Read associated article

2023 Section Officers

Chair	Natalie McClure	650-906-7831	nmcclure@drugregulatoryaffairs.com
Chair-Elect	Todd Eberspacher	650-723-2505	eberspacher@stanford.edu
Past-Chair	Stephanie Benight	206-604-3163	sbenight@gmail.com
Secretary	Megan Tichy	408-499-1777	mtichy@scu.edu
Treasurer	Ihab Darwish	650-624-1389	darwishis@yahoo.com
Councilors			
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
2023-2025	Ihab Darwish	650-624-1389	darwishis@yahoo.com
2023-2025	Madalyn Radlauer	408-924-5482	madalyn.radlauer@sjsu.edu
Alternate Councilors			
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
2023-2025	Amanda Nelson	650-542-1357	nelsonak@stanford.edu
2023-2025	Kristin Schmidt	650-283-0122	kristin.schmidt.79@gmail.com
2023-2025	Laura Yeager	626-826-3145	laura.yeager123@gmail.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/

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

Sign up: Newsletter





facebook.com/SiValleyACS

@SiValleyACS

Useful ACS Links

About | News | Social Tools **Future National Meetings Upcoming Events** | Webinars **C&EN Jobs | Career Resources** Membership | Member Benefits

Funding & Awards

Governance | Advocacy

Ethical & Professional Guidelines

Publications | C&EN | CAS

Communities | Green Chemistry Local Sections | Outreach **Students and Educators** ACS Institute | Center for Lab Safety **Diversity, Equity, Inclusion & Respect** Volunteer | Donate

The Silicon Valley Section of the American Chemical Society is the copyright owner of all material published in The Silicon Valley Chemist. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without advance permission in writing from the editor, particularly for commercial purposes. Authorization to photocopy items for limited internal or personal use, or the limited internal or personal use of specific clients, is granted by the Executive Committee of the Silicon Valley Section of the American Chemical Society.