

# Silicon Valley Chemist

Silicon Valley Section

American Chemical Society

Volume 41 No. 3

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## REMINDER

## SVACS March Dinner Meeting

## REMINDER

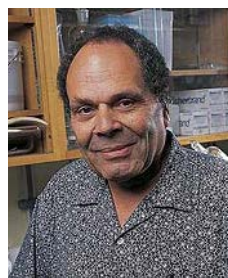
## Wines and Winemaking

### Merging Chemistry Fundamentals and Sensory Evaluation Outcomes to Gain a 21st Century Perspective

Professor Phil Crews, UC Santa Cruz and Pelican Ranch Winery

**Abstract**

Wine is a complex liquid comprised of many bioorganic and bioinorganic compounds in a 12.5% alcoholic solution with a pH range of 3-4. Wine quality assessment and winemaking methods have been in place for many centuries. Nowadays, contemporary approaches to winemaking are quite scientific as many aspects of this complex drink appear to be understood. For example, a fascinating book, "Understanding Wine Chemistry," by Waterhouse, Sacks, & Jeffery was recently published in 2016. Decades ago



Wired Magazine reported on the Grapes of Math (GoM) in an comprehensive article to underscore that consulting companies exist to help winemakers craft award winning wines. The GoM approach uses databases created via metabolomics approaches. On the other hand, many subscribe to the idea

that successful winemaking and wine quality evaluations can be achieved by just using a "right-brained" approach. In this wine-centric event we will explore principles of wine making and wines through sensory evaluations and correlating this with wine molecules. Different flavor outcomes achieved in winemaking as a function of grape variety and the terroir differences of vineyards in California will be illustrated. The approaches to wine creation will

*continued on next page*

## Connect with Chemists

An early morning chat with fellow chemists

**Thursday, March 21, 2019, at 7-8 a.m.**

Coupa Café, 538 Ramona Street, Palo Alto  
Contact Ean Warren ([ewarren@scvacs.org](mailto:ewarren@scvacs.org))  
for more information or ask for ACS at Coupa.

## Chair's Message

Grace Baysinger



Greetings! On February 15th, the Silicon Valley (SV) Section submitted its 2018 Annual Report to ACS. Like earlier reports, in the near future the 2018 report will be posted on the Section's *Annual Report* web page. It was a busy year!

Upcoming events: To view and register

for upcoming events, please see the *Calendar* page on SV's website. Co-hosted with the California Section, on April 18th, there will be a "*Conversation with ACS President, Bonnie Charpentier: the ACS Community and Priorities for 2019*," at the Basque Cultural Center. In celebration of *Chemists Celebrate Earth Week's* theme "Take Note: The Chemistry of Paper" will be held at the Martin Luther King Library in San Jose.

On the ACS website: Because the ACS website is a treasure trove of information and contains information you may not be aware of, here are a few pages of potential interest.

*continued on next page*

## SVACS March Dinner Meeting

**Date:** Friday, March 8, 2019

**Time:** 6:00 - 9:00 PM

**Speaker:** Professor Phil Crews  
Department of Chemistry and Biochemistry, UC Santa Cruz and Pelican Ranch Winery, Capitola, CA

**Location:** *Sesnon House*  
Cabrillo College  
6500 Soquel Drive  
Aptos, CA 95003

**Tickets:** Regular \$30, Students \$15

**Reservation:** visit our website at  
[www.svacs.org](http://www.svacs.org)



## Pelican Ranch Winery

examining outcomes derived from tasting and talking about five different Burgundy and Rhône style California wines.

### Biography

Phil Crews is a California native, and has spent most of his academic career in the State. He received his B.S. from the University of California at Los Angeles and his Ph.D. from UC Santa Barbara working with Domenick Bertelli. After a postdoc at Princeton University,

he explored using case examples. Everyone in attendance will have a chance to dissect the major and minor complex flavors aromas and the chemistry associated with wines. Answers to vexing questions will be sought by

ty, in 1970, he started as an Assistant Professor and is currently an Emeritus Professor for the Chemistry and Biochemistry Department at UC Santa Cruz. The primary goals of his research group were to understand the chemistry of tropical marine sponges and marine-derived fungi. Bioassay-guided isolation assisted in the discovery of natural products potent against human diseases such as cancer and neglected tropical diseases. The search for novel active compounds incorporated elements of structure elucidation, employing state-of-the-art nuclear magnetic resonance (NMR) techniques.

A passionate home-wine-maker, wine educator took his “hobby” public. Specializing in Burgundian and Rhone style wines from select Coastal vineyards, the *Pelican Ranch Winery* is a family owned and operated winery in the heart of Capitola. Established in 1997, the winery is just a few blocks from the Monterey Bay which provides a constant, cool, coastal influence that allows for the making of fine elegant wines.

## Dr. Gary Molander 2018 Mosher Award Recipient

On January 24, the Silicon Valley section awarded the 2018 Harry and Carol Mosher Award to Dr. Gary Molander. Gary is the Hirschmann-Makineni Professor of Chemistry, University of Pennsylvania. His research interests are in the development of new synthetic methods for organic synthesis, particularly in the invention of transition metal-catalyzed protocols for the construction of carbon-carbon bonds.

In his seminar, Dr. Molander provided a tour de force display of the novel approaches his group is pioneering to transition metal catalyzed cross-coupling reactions and photo-redox reactions. The group has recently developed an alternative mechanistic paradigm for cross-coupling using a double metal-catalyzed photoredox process, and we are also employing organotrifluoroborates as precursors to a variety of novel borazines.

In traditional cross-coupling reactions, a three-step catalytic cycle mechanistically-based on 2-electron processes is employed: oxidative



addition of a halide at Pd<sup>0</sup> or Ni<sup>0</sup>, transmetalation of an organometallic nucleophile with the oxidative addition intermediate, and reductive elimination, which releases the coupled product and regenerates the Pd<sup>0</sup> or Ni<sup>0</sup> catalyst. Dr. Molander presented several approaches to single

electron mechanistic paradigms for cross-coupling to improve the transmetalation rates and expand the types of substrates for cross-coupling. Dual catalytic cycles are established: a photoredox catalytic cycle, generating radicals from appropriate precursors, and a cross-coupling catalytic cycle that funnels these radicals into a base metal catalytic cycle that effects the cross-coupling. The nature of the cross-coupling cycle, in which high-energy radical intermediates engage the cross-coupling catalyst, insures a cascade of low energy events leading to product, avoiding the high energy of activation associated with previous cross-coupling protocols.

*Diversity and Inclusion: An Essential Element* enables you to take a closer look at the array of opportunities ACS offers to represent diversity and inclusion in the sciences. To learn more about ACS sites on social media tools, check out *ACS on Facebook*, *ACS Twitter Accounts*, and *ACS Instagram*. *ACS Axial* is a blog from ACS Publications providing ideas, insights, and advice from the scientific community. *CAS' Blog*: Where science and strategy converge contains an array of interesting articles.

In celebration of the International Year of the Periodic Table (IYPT2019): Theodore Gray's beautiful *Periodic Table of the Elements* is free to view online. The Royal Society of Chemistry's Interactive *Periodic Table* features history, alchemy, podcasts, videos, and data trends across the periodic table. Produced by the European Chemical Society (EuChemS), “*the Periodic Table and us*” looks at element scarcity and what it means for us. EuChemS has also launched ‘*Elemental Escapades!*’, a free online video game. Consider nominating someone under 40 years old for IUPAC's *Periodic Table of Younger Chemists*. For IYPT2019, *Compound Interest* is making a graphic for each element. Dr. Mark R. Leach has compiled *The Internet Database of Periodic Tables*, a comprehensive database of periodic tables and periodic system formulations.

Please contact us: Let us know how we are doing or if you would like to become more involved in the ACS Silicon Valley Section activities. A volunteer organization, we have jobs that are large and small. Please fill out this [contact us form](#) or send me an email message.

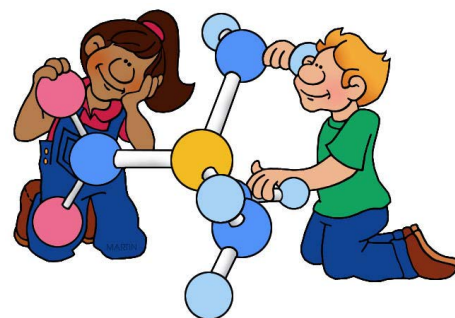
Many thanks for being a member of ACS!

*Grace Baysinger*

ACS Fellow 2017

[graceb@stanford.edu](mailto:graceb@stanford.edu)

<https://profiles.stanford.edu/grace-baysinger>



# ACS Community and Priorities for 2019

## A Conversation with ACS President

Dr. Bonnie Charpentier

### Abstract

The over-arching theme for the ACS presidential year of 2019 is collaboration. In keeping with that theme, this presentation is meant to be an interactive discussion of ACS priorities and programs. The presentation will include an introduction to ACS Presidential areas of focus for 2019, including Advocacy for chemistry and science education, safety and the environment, and plans for the International Year of the Periodic Table of Chemical Elements (IYPT). Ideas for collaborations across ACS, and with other societies in this country and internationally will be explored for the benefit



of our members, and for the world. The input, ideas, and suggestions from section members will be solicited.

### Biography

Bonnie Charpentier is President of the American Chemical Society. She previously served on the ACS Board of Directors, including as the Chair of the Board. She has served on and chaired a variety of Society committees and task forces at national levels, as well as being active in local sections, divisions and regional meetings. At the local level, she has been instrumental in establishing chemistry workshops for teachers,

workshops on interviewing skills for students, and an outreach program for hands-on chemistry with children in homeless shelters.

She is currently Senior Vice President of Regulatory and Compliance at Cytokinetics, Inc., in South San Francisco, California, a company dedicated to the discovery and development of novel small molecule therapeutics that modulate muscle function. In that role she is responsible for Regulatory, Quality and Drug Safety Departments. Prior to Cytokinetics, Bonnie worked in drug research and development at other companies, including Syntex and Roche, and as an analytical chemist at the Procter and Gamble Co. She holds a B.S. degree in anthropology and a Ph.D. in Plant Physiology.

In her ACS work, Bonnie has emphasized the importance of communicating the value of chemistry through public outreach and education. She is a strong advocate for high quality services for members including career services and continuing education. She supports ACS programs that focus on expanding ACS's legislative advocacy through member involvement, and on increasing effective collaboration between industry and academia, and between ACS and other professional societies. She is passionate about the importance of public service, and about turning molecules into medicines.

## Local Science Fairs in 2019

by Susan Oldham-Fritts

This month is your last chance to judge at one of this year's county science fairs, all qualifiers for student advancement to the International Science and Engineering Fair, ISEF. While the cost is minimal (a day of your time judging at your local science fair), the return is great (encouraging middle and high school students to participate in the world of STEM – science, technology, engineering, and math). **We need additional members for our SVACS-sponsored special awards judging team at the Synopsys Championship on March 14th** (contact me at [sofritts@gmail.com](mailto:sofritts@gmail.com) to join us). Our dedicated team of chemists judge about 200 projects in the fields of biochemistry, chemistry, and earth and environmental science.

Or sign up as a **category judge** for one the following regional science fairs and ask professionals you know in botany, biology, and the behavioral/social sciences to judge, too.

The interaction between the students and judges is the heart of each and every science fair. The encouragement, gentle critique, and interest we as judges share with the students benefit all of the participants. No matter which fair is closer to home, **please volunteer now!**

### Santa Cruz County Fair March 2

Santa Cruz County Fair Grounds

[http://www.science.santacruz.k12.ca.us/judges\\_registration\\_new.html](http://www.science.santacruz.k12.ca.us/judges_registration_new.html)

### San Mateo County Science, Math, & Technology Fair March 3

San Mateo Events Center, Fiesta Pavilion

<https://www.stemfair.net/app/signup/judges>

### Synopsys Championship March 14

San Jose Convention Center

<https://science-fair.org/judges-3/category-judges/judging-registration/>

### Monterey County Science & Engineering Fair March 16

California State University, Monterey Bay, University Center, Bldg. 29

[www.montereycountysciencefair.info](http://www.montereycountysciencefair.info)

### Golden Gate STEM Fair March 23

San Francisco County Fair Bldg., 9th & Lincoln, Golden Gate Park

<http://sfbasf.org>

## SVACS April Dinner Meeting

**Date:** Thursday, April 18, 2019

**Time:** 6:00 -7:00 pm social hour  
7:00 -8:00 pm dinner  
8:00 -9:00 pm discussion

**Speaker:** Dr. Bonnie Charpentier  
*A Conversation with ACS President: The ACS Community and Priorities for 2019*

**Location:** *Basque Cultural Center*  
599 Railroad Avenue  
South San Francisco, CA

**Cost:** \$30 regular members  
\$15 students  
Breast of Chicken Chasseur,  
Salmon with Champagne Sauce,  
or Vegetarian

**Reservations:** 650-477-3027  
<https://www.brownpapertickets.com/event/4066056>

Reservations should be made by April 12. Watch the web site for more information.



# Scientists Celebrate the International Year of the Periodic Table

by Ean Warren

The year 2019 marks the 150-year anniversary of Dmitri Mendeleev's first draft of his Periodic Table. To commemorate the event, scientists around the world plan events to honor Mendeleev and his system of organizing elements. On January 29, scientists gathered in Paris at the UNESCO headquarters to participate in the opening ceremonies (<https://en.unesco.org/events/official-launch-event-international-year-periodic-table-chemical-elements>). The day was marked with talks on the origins of elements, elements involved in life sciences, periodic table and education outreach, synthetic elements, and sustainable development. Chemistry demonstrations and different versions of the periodic tables were held outside the lecture hall.

The speakers included Audrey Azoulay, Director General UNESCO; Pierre Corvol, Président de l'Académie des Sciences, Institut de France; Professor Ben Feringa, Nobel Laureate in Chemistry 2016; Professor Youri Oganessian, Scientific Director Flerov Laboratory, Dubna; and Bonnie Charpentier, ACS President. Each spoke in one way or other about Mendeleev's Periodic Table and its importance in the world of science. Young

scientists from Africa, Asia, Latin and South America, and Europe talked about their research and relevance of the periodic table. Additional talks focused on the importance of chemistry to developing countries and women in particular.

Bonnie Charpentier, 2019 ACS President, talked about ACS plans to celebrate the Periodic Table. As part of her remarks, Bonnie told the forum about an ACS Program-in-a-Box in February with a box of activities for ACS member groups around the world. ACS is also planning IYPT-related events with Congress outreach and at both of the ACS 2019 National Meetings. At the National Meeting in Orlando, an IYPT trivia night will be hosted by C&EN, and there will be various receptions and outreach events. There will also be IYPT-themed events at the Fall National Meeting in San Diego. If members can't travel to these national meetings, there will be additional opportunities to celebrate IYPT at ACS regional meetings and with ACS local sections, international chapters, technical divisions, and student chapters. ACS has launched a webpage, [www.acs.org/IYPT](http://www.acs.org/IYPT), to store updates, fun facts, and resources on

how to celebrate the periodic table. On social media, there is a weekly periodic table-related trivia question on the ACS Twitter page and there will also be a social media campaign, #InMyElement, to encourage scientists to share photos of themselves in their work environment. Finally, ACS Axial, the ACS Publications blog, will feature monthly posts on IYPT. C&EN also has a photo contest called "I Spy the Periodic Table" (<https://cen.acs.org/sections/i-spy-a-periodic-table-photo-contest.html>). Bonnie said, "In closing, one of the main goals of the International Year of the Periodic Table is to 'raise awareness of how chemistry promotes sustainable development and provides solutions for global challenges in energy, education, agriculture and health.'"

The opening ceremony can be seen at <https://www.iypt2019.org/2019/02/01/watch-the-opening-ceremony-again>.

The celebration of the periodic table continues throughout the year. See the UNESCO-sponsored website for information on the periodic table and events (<https://www.iypt2019.org>).



## Sidney Harris' Cartoon



There is a healthy debate among scientists about which discipline can provide the best tools for solving key societal problems. This cartoon pokes fun at the sometimes—contentious relationship between chemists and biologists. Chemists are often the inventors and early developers of materials and techniques that drive biotechnology. Is this area (arguably biology's most useful side) then really just chemistry in disguise? Can chemists lay claim to the most impactful discoveries within it? Whether you'd argue yes or no to these questions, it could be the biology community that gets the last laugh. Another clue in the man's crossword puzzle: "A biologist who has made seminal discoveries in his or her field, perhaps (4 words)." The answer: N-O-B-E-L-L-A-U-R-E-A-T-E-I-N-C-H-E-M-I-S-T-R-Y.

—Chad Mirkin, Northwestern

## Cartoon Contest

Win your own Sidney Harris original cartoon! A contest will be held in which ACS members only can submit "one original cartoon caption" of 35 words or less. Cartoonist Sidney Harris will draw a cartoon based on the winning caption. The grand prize winner will receive the original cartoon based on the winning caption. The runner-up will receive a personally autographed copy of one of Harris's most famous cartoons chosen by Harris. Deadline is April 1, 2019.

For more information and the official entry form, go to: <http://acsbist.scs.illinois.edu/index.php>

## Chemical History in March

### March 2nd, 1896:

French physicist Henri Becquerel announced the discovery of radioactivity

### March 3rd, 1862:

Louis Pasteur and Claude Bernard initiated a test of pasteurization by heating blood and urine in sealed flasks

### March 4th, 1947:

Willard Libby performed the first radiocarbon dating experiment

### March 6th, 1869:

Dmitri Mendeleev's Periodic Table was announced to the Russian Physicochemical Society

### March 7th, 1792:

John Frederick William Herschel, inventor of photography on sensitized paper, was born

### March 13th, 1733:

Pioneering chemist Joseph Priestly was born

### March 16th, 1926:

The first rocket powered by liquid fuel was launched. The demonstration by American physicist Robert H. Goddard was revolutionary at the time, leading to a new field of rocket propulsion

### March 20th, 1800:

Italian physicist Alessandro Volta revealed the first electric battery

### March 21st, 1942:

Element 94 – plutonium – was named on this day

### March 23rd, 1962:

The first noble gas compound, xenon hexafluoroplatinate, was discovered

### March 28th, 1979:

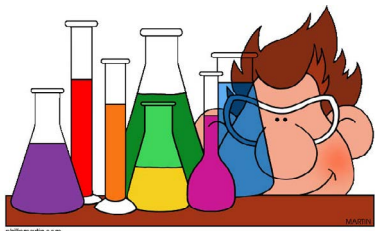
The Three Mile Island nuclear power plant in Pennsylvania underwent a partial meltdown

### March 29th, 1956:

Soviet scientists developed the first transmission electron microscope (TEM)

### March 30th, 1842:

The first surgery using anesthesia was performed by American surgeon Crawford Long



## Call for Nominations 2019 Abraham Ottenberg Service Award

The Ottenberg Award is presented annually to a member of our local section for outstanding service to the section. Previous recipients are not eligible to receive it again.

Nominations should 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.

Please send your nomination before June 15, 2019 by e-mail to [PF Rusch@aol.com](mailto:PF Rusch@aol.com), 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



## Chemistry Quiz

This protein is the most abundant in mammals. In humans, over 90% occurs as the triple-helix "Type I" form.

The answer will appear in next month's newsletter.

### Last Month's Chemistry Quiz

This element is the rarest in the earth's crust. The half-life of the longest lived isotope is 8 hours. A pure sample has never been assembled because any macroscopic specimen would be immediately vaporized by the heat of its own radioactivity. The English name derives from the Greek *ἄστατος*, meaning unstable.

**Astatine (At)**

## Science Education Program at SJSU Seeks Mentors

The Science Education Program at San Jose State University (SJSU) is seeking mentors for teacher candidates. If you have taught high school science, and are willing to mentor teacher candidates working towards credentials in science, your help is needed. Please contact Resa Kelly at [resa.kelly@sjsu.edu](mailto:resa.kelly@sjsu.edu) to find out more.



# CHEMISTRY

FOR  
NEW

FRONTIERS

2019  
AMERICAN  
CHEMICAL  
SOCIETY  
NATIONAL MEETING  
& EXPOSITION

MARCH 31 - APRIL 4  
ORLANDO, FL



## ACS National Meeting and Expo

March 31 - April 4, 2019

Orlando, FL

Registration is now open online: <https://www.xpressreg.net/register/acsa0319/start.asp>

# 2019 CCEW Illustrated Poem Contest

## Take Note: The Chemistry of Paper

SVACS is sponsoring an illustrated poem contest for students in Kindergarten through 12th grade.



**Contest Deadline:** April 26, 2019

**Prize:** \$25 Visa Gift Certificate and a chance to compete in the National Contest!

**Contact:** Dr. Elizabeth Migicovsky at [elizabeth.migicovsky@sjsu.edu](mailto:elizabeth.migicovsky@sjsu.edu)

The Winner 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 CCEW theme, "Take Note: The Chemistry of Paper." 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 Paper

**Chemistry include:** Bioplastics, Cellulose, Fiber, Lignin, Plastic, Polymer, Pulp, Slurry

### Entries will be judged based upon:

Artistic Merit - use of color, quality of drawing, design & 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:

- Poems must conform to a particular style. No poem may be longer than 40 words.
- The topic of the poem and the illustration must be related to the yearly CCEW theme.
- All entries must be original works without aid from others. Each poem must be submitted and illustrated on an unlined sheet of paper (of any type) not larger than 11" x 14". The illustration must be created by hand using crayons, watercolors, other types of paint, colored pencils, or markers. The text of the poem should be easy to read and may be printed with a computer

before the hand-drawn 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.

- Only one entry per student will be accepted.
- All entries must include an entry form.
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners' names, likenesses, and entries for editorial, advertising, and publicity purposes.

## 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! To encourage you to attend a monthly section seminar meeting, we would like you to be our guest. When you register, 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 a number of local venues. If you are unable to attend in the evening, perhaps you would 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. Then, there is our annual wine tasting and awards picnic in July. The local section is a volunteer organization. Please attend an event, volunteer to help and get to know your local fellow chemists. Welcome!

## New SVACS Members

Mark Becker	Chen-Wei Christopher Hong	Aishwarya Sivakumar
Anja Malawi Brandon	Matias Horst	Dr. Frank Streller
Reena Chawla	Richard Jack	Tiffany Trinh
Chen Cheng	Dr. Paul M. Jones	Winston Tse
Charleston Chua	Ahmad Kassem	Dr. Aaron T. Weckslar
Chris Countryman	Kaitlyn Quan Leung	Dr. Jeffrey Greg Weers
Hien Diep	Bingzhang Lu	Bruce Wilcox
Ryan Drover	Paul Scott Martin	Di Xu
Vikram Duvvoori	Andrew Beckmann Mayfield	Jie Xu
Dr. Edgar G. Estupinan	Dr. Amrita Mullick	Crystal Su Ye
Jose Antonio Garrido Torres	Scott Nguyen	Jessica Yu
Dr. George Grenier	Harris Kristoffer Ordon	Angel Zubieta
Justin Ho	Alexander Pell	



**The American Chemical Society  
Monterey Bay  
March 8, 2019**



**Wines & Winemaking  
merging chemistry fundamentals &  
sensory evaluation**

*Professor Phil Crews  
UC Santa Cruz Chemistry Dept.  
&  
Pelican Ranch Winery*

**Friday, March 8, 2019**

6:00 socializing/networking  
7:00 dinner  
8:00 seminar

**Open to all  
students, faculty,  
practitioners and admirers  
of chemistry**

**Must be over 21 years old  
for wine-tasting**

**Registration required  
Silicon Valley ACS  
[svacs.org](http://svacs.org)**

**Location**

Sesnon House  
Cabrillo College  
6500 Soquel Drive  
Aptos



SILICON VALLEY SECTION  
AMERICAN CHEMICAL SOCIETY  
P.O. Box 395, Palo Alto, CA 94302



To receive an email when our newsletter  
is published on our web site, sign up at:

<http://svacs.org>

## SILICON VALLEY SECTION

### 2019 Section Officers

Chair	Grace Baysinger	650-725-1039	graceb@stanford.edu
Chair-Elect	Matt Greaney	510-410-0195	greaney19@gmail.com
Past Chair	Melody Esfandiari	408-924-4973	melody.esfandiari@sjsu.edu
Secretary	Jigisha Shah	315-289-5115	jssheth@syr.edu
Treasurer	Ihab Darwish	650-624-1389	darwishis@yahoo.com

### Councilors

2017-2019	George Lechner	408-226-7262	glechner@aol.com
2017-2019	Matt Greaney	510-410-0195	greaney19@gmail.com
2018-2020	Ean Warren	650-714-5133	ewarren@svacs.org
2018-2020	Natalie McClure	650-906-7831	nmclure@drugregulatoryaffairs.com
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

### Alternate Councilors

2017-2019	Elizabeth Migicovsky	408-924-5012	elizabeth.migicovsky@sjsu.edu
2018-2020	Madalyn Radlauer	408-924-5482	madalyn.radlauer@sjsu.edu
2019-2019	Dave Parker	408-605-2116	drdrparker@gmail.com
2019-2019	Todd Eberspacher	650-723-2505	eberspacher@stanford.edu
2019-2021	Laura Yeager	626-826-3145	laura.yeager123@gmail.com
2019-2021	Sogol Teschler	408-896-2367	sgyahyazadeh@gmail.com
2019-2021	John Goeltz	831-582-4661	jgoeltz@csuumb.edu

### Newsletter

Editor	Kevin Greenman	408-634-2309	editor@svacs.org
Assoc. Editor	Partha P. Bera	650-604-2028	partha.pb@gmail.com

### ChemPloyment Abstracts

Director:	Liang Cao	liang.cao@aol.com
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## FUTURE EVENTS 2019

- Mar 8** *Monterey Bay ACS Event: A Wine Workshop*  
Professor Phil Crews, UCSC  
Sesnon House, Cabrillo College  
Aptos, CA
- Mar 22** *Eat, Drink and Be Techie*  
Friday nights at the Computer History  
Museum  
Mountain View, CA
- Mar 31** *ACS National Meeting*  
**– Apr 4** “Chemistry for New Frontiers”  
Orlando, FL
- Apr 18** *ACS Community and Priorities for 2019*  
Dr. Bonnie Charpentier  
Basque Cultural Center, South San Francisco
- Apr 22** *Stanford Drug Discovery Symposium*  
Stanford Medicine: Paul Berg Hall
- Apr 27** ACS International Chemistry Olympiad  
National Exam  
Santa Clara University  
[sallybrownpeters@gmail.com](mailto:sallybrownpeters@gmail.com)
- Jul 13** SVACS Annual Wine Tasting and Awards  
Picnic  
Stanford University Chemistry Dept.  
Click on links for more information or  
see this newsletter at <http://svacs.org>