

Silicon Valley Chemist

Silicon Valley Section

American Chemical Society

Volume 39 No. 11

NOVEMBER 2017 NEWSLETTER TOPICS

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Connect with Chemists

An early morning chat with fellow chemists

Thursday, November 16, 2017, at 7 a.m.

Coupa Café

538 Ramona Street, Palo Alto

Contact Ean Warren (ewarren@scvacs.org)

for more information
or ask for Ean at Coupa.

American Chemical Society Silicon Valley Section

Annual Election of Section Officials

Richard Bone, Section Secretary

The Silicon Valley Section of the American Chemical Society is conducting its annual election electronically. The election concludes on November 27, 2017 at 11:59pm (U.S. Pacific time).

You have received an email from Vote-now.com because you are a voting member of the ACS Silicon Valley Section. Vote-now is acting as the election agent for this organization.

When you are ready to vote, click the link in the email to load the ballot in your web browser.

Please do not share the email with others.

The candidate biographies are available via links within the online ballot.

If you have questions about the election process, or require a paper ballot, please contact the Section Secretary, Richard Bone, rbone@mwe.com; (650) 815-7524; (650) 714-7897

For technical problems, please reply to the email to contact support@vote-now.com,

or call (888) 993-9801.

Executive Committee Positions to vote on:

1. **Chair-Elect 2018** - vote for one (1-year position, becomes Chair in 2019)
 - Grace Baysinger, *Stanford University*
 - _____
2. **Secretary 2018** - vote for one (1-year position)
 - Jigisha Shah, *Cytokinetics*
 - _____
3. **Treasurer 2018** - vote for one (1-year position)
 - Ihab Darwish, *Rigel Pharmaceuticals*
 - _____
4. **Councilors** - vote for two (3-year positions)
 - Charlie Cox, *Stanford University*
 - Ean Warren, *USGS*
 - Natalie McClure, *Adamas Pharmaceuticals*
 - _____

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Chair's Message

Todd Eberspacher



By the time you read this we will have a new President-Elect of the ACS. Everyone in our section should know local member Bonnie Charpentier was nominated for the post and it would be exciting to have a local member serve in the position. Related, election of the local section officers, councilors, and alternate councilors will be taking place. Voting is typically only done by a few percent

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YCC ACS Home Brew Competition

Golden State Brewery

The YCC and Senior Chemists are hosting a home brew competition at Golden State Brewery on Saturday, November 11, from noon to 3pm. Several teams will be sampling their home brews to a panel of judges and any attendees who wish to try. We are still looking for additional entrants, so please contact Matt Greaney (greaney19@gmail.com) if you wish to enter a brew or if you have any questions. All entrants will be reimbursed up to \$40 for the cost of raw materials. Anyone interested in attending this event should register on our Brown Paper Tickets page: <http://www.brownpapertickets.com/event/3095253>

Suggestions for future meetings and/or speakers are always welcome. Send them to: programming@scvacs.org.

YCC
HOME
BREW
COMPETITION

SATURDAY NOV. 11
2017
12-3 PM

GOLDEN STATE BREWERY
1252 MEMOREX DR.
SANTA CLARA, CA 95050

Contact: greaney19@gmail.com

5. **Alternate Councilors** - vote for three (Top two votes are for 3-year positions; third ranked candidate will assume a 1-year position)
- Madalyn Radlauer, *San Jose State University*
 - Alex Klevay, *Natron, Inc.*
 - Howard Peters, *Retired, Patent Attorney*
 - Dave Parker, *Retired, Safety Officer*
 - Jane Frommer, *IBM*
 - _____

Other Instructions for Vote Now:

1. Randomize the ordering of candidates for positions where more than one candidate is standing. This randomization should be done individually for each ballot; the intent is that the ballots do not all have the same ordering of the candidates.
2. Please certify results no later than 17:00 PST, November 29, 2017
3. The election must maintain anonymity and confidentiality of member votes: (i.e., the Silicon Valley Section must not know which members voted, or how an individual member voted).
4. The e-ballot should ensure that eligible members only vote once.
5. Submitted ballots must be archived for one year in the event of a contested election, so that the election results can be reviewed.
6. The Internet voting site should be https compliant (encrypted transmissions).

Chair's Message, continued from front page
of the members—it takes a few seconds to vote. Please watch for an email and place your votes. Bios of the candidates are available on our website.

I hope everyone has noticed that the name of the local section has changed to Silicon Valley from Santa Clara Valley. The name change process has taken place over the last 18 months and involved a lot of work by my predecessor, past-chair Jane Frommer and the Executive Committee. Look for changes to the web site, email addresses, and letter head in the future. Thank you to everyone for making this happen.

Prompted by the name change, the By-Laws Committee has undertaken the task of updating the section's by-laws to conform with the standards set by the National ACS. This too has been a long process. Special thanks to the committee for taking on this task and special thanks to George Lechner for chairing the committee. Look for a summary of the

proposed changes in the near future. Any changes are subject to approval by the ACS and a vote of the section membership.

The first meeting of the Silicon Valley ACS Book Club took place on October 21 at Stanford. Ean is looking for leaders for future meetings and suggestions of books to read. If you are interested in participating, please contact Ean (ewarren@scvacs.org).

The Program Committee is always interested in your ideas for dinner meetings and events. Please email programming@scvacs.org with suggestions, wish lists, and ideas.

Finally, the younger chemists committee (YCC) is hosting a Home Brew Competition with judging of the reaction products on November 11 at the Golden State Brewery. Registration details are on the website and in this newsletter.

ACS Book Club

Interested in joining the ACS Book Club? Add yourself to the email list svacs-book-club+subscribe@googlegroups.com or contact Ean Warren (ewarren@scvacs.org).



ACS Bay Area COMP Together and UCSF Pharm Postdocs Present

The Use of FEP to Drive Drug Discovery at Janssen: BACE and PDE2 Inhibitor Design

Dr. Herman van Vlijmen

Computational Chemistry, Janssen, Pharmaceutical companies of Johnson & Johnson

Tuesday, November 7, 6-9 pm
UCSF Mission Bay - Genentech Hall Room GH114N
1700 4th St. San Francisco CA 94158

6 – 7 pm: Poster Session
(pizza and refreshments provided)

7 – 8 pm: Seminar and Discussion

8 – 9 pm: Networking

Registration

Already registered on the COMP Together network?

http://app.acscomp.org/COMP_Together/meeting_signup.php

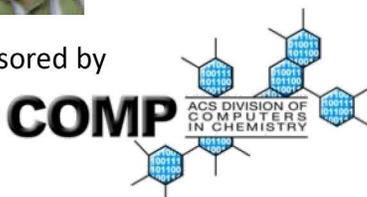
Not yet registered on the COMP Together network?

http://app.acscomp.org/COMP_Together/reg_form.php



Dr. van Vlijmen is head of Computational Chemistry in the Discovery Sciences organization at Janssen, Pharmaceutical companies of Johnson & Johnson in Belgium. He is also Adjunct Professor of Computational Drug Discovery at Leiden University in the Netherlands.

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Battling Flames Increases Firefighters' Exposure to Carcinogens

ACS News Service

The threat of getting burned by roaring flames is an obvious danger of firefighting, but other health risks are more subtle. For example, firefighters have been found to develop cancer at higher rates than the general population. Now researchers have measured how much firefighters' exposure to carcinogens and other harmful compounds increases when fighting fires. Their study, appearing in ACS' *Environmental Science & Technology*, also points to one possible way to reduce that exposure.

Based on a study of 30,000 firefighters in three cities, the U.S. National Institute for Occupational Safety and Health reported in 2013 that firefighters had higher rates of several kinds of cancer than the general population. The burning of wood, plastics, furniture, electronics and other building materials releases hazardous substances, including polycyclic

aromatic hydrocarbons (PAHs), into the air. Exposure to PAHs is of particular concern as the compounds can cause DNA mutations and are known carcinogens. But few studies have investigated firefighters' on-the-job exposure to PAHs and other combustion emissions. So Jules M. Blais and colleagues set out to get a clearer picture.

The researchers collected samples of urine and wiped the skin and clothing of more than two dozen firefighters in Ottawa before and

after they responded to fires in 2015 and 2016. On average, post-fire levels of PAH metabolites in urine were 2.9 to 5.3 times higher than pre-fire levels. The average urinary mutagenicity — or the potential to cause genetic mutations — increased 4.3-fold. "There's a relationship between firefighters' urinary PAH metabolite levels and the levels of PAHs on their skin, which leads us to suspect that dermal contact may be an important route of exposure," says Jennifer Keir, an author on the study. The researchers conclude that skin decontamination immediately after fighting a fire could be one way to help reduce firefighters' exposure to these potentially cancer-causing compounds.

Adventures in Chemistry

Find Experiments, Learning Resources and the Secret Science of Stuff
at the ACS Adventures in Chemistry page:

<https://www.acs.org/content/acs/en/education/whatischemistry/adventures-in-chemistry.html>

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Chemistry Quiz

Which familiar Thanksgiving spice is illegal in Saudi Arabia because it contains the hallucinogenic compounds myristicin and elemicin?

The answer will appear in next month's newsletter.

Last Month's Chemistry Quiz

At the American Chemical Society meeting in 1909, one of the first plastics made from synthetic components was reported: polyoxybenzylmethylenglycolanhydride. What is the common name for this material?

Polyoxybenzylmethylenglycolanhydride is commonly known as Bakelite.

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

Felix Alfonso
Chibueze Amanchukwu
Dr. Alexander S. Bayden
Joseph Michael Becerra
Chelsea Lynn Broderick
Jianhua Chao
Dr. Anatoly Chlenov
Joseph Michael Dennis
Zachary Miller Detweiler

Laura Marie Hagenah
Ioannis Kipouros
Tom Lam
Dr. Jie Jack Li
Dr. Kevin Martin
David M. Navarro
Thao Nguyen
Dr. Robert V. O'Brien
Dr. Angshuman Pal

Anna Pereira
Walter Ralston
Dr. Krishnaswamy Rengan
Kimberly Robin Sabsay
Frederick James Seidl
Tsegaye Gebremedhin Teshale
Boris A. Veytsman
Linfeng Yao



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://scvacs.org/?page_id=99

SILICON VALLEY SECTION

2017 Section Officers

Chair	Todd Eberspacher	650-723-2505	eberspacher@stanford.edu
Chair Elect	Melody Esfandiari	408-924-4973	melody.esfandiari@sjsu.edu
Past Chair	Jane Frommer	408-927-2224	frommer@scvacs.org
Secretary	Richard Bone	650-714-7897	rgab@scvacs.org
Treasurer	Ihab Darwish	650-624-1389	darwishis@yahoo.com

Councilors

2015-2017	Ean Warren	650-329-4554	ewarren@scvacs.org
2017-2017	Charlie Cox	650-485-1041	ctcox@stanford.edu
2016-2018	Bonnie Charpentier	650-380-5353	charpentierbon@yahoo.com
2016-2018	Linda Brunauer	408-554-6947	lbrunauer@scu.edu
2016-2018	Sally Peters	650-447-3027	sallybrownpeters@gmail.com
2017-2019	George Lechner	408-226-7262	glechner@aol.com
2017-2019	Matt Greaney	510-410-0195	greaney19@gmail.com

Alternate Councilors

2015-2017	David Parker	408-615-4961	dredrparker@comcast.net
2017-2017	Howard Peters	650-447-3027	peters4pa@sbcglobal.net
2017-2017	Heddie Nichols	310-435-2133	nichols@scvacs.org
2016-2018	Natalie McClure	650-906-7831	nmclure@drugregulatoryaffairs.com
2016-2018	Heidi Vollmer-Snarr	650-723-9518	hrvsnarr@stanford.edu
2017-2019	Elizabeth Pollom	408-924-5012	elizabeth.pollom@sjsu.edu
2017-2019	Slava Bekker	831-759-6005	sbekker@hartnell.edu

Newsletter

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Assoc. Editor	Partha P. Bera		partha.pb@gmail.com

ChemPloyment Abstracts

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

- Nov 7** *ACS Computers in Chemistry Monthly Seminar, Posters, and Networking*
UCSF Mission Bay
- Nov 11** YCC ACS Home Brew Competition in Partnership with the ACS Senior Chemists Golden State Brewery, Santa Clara, CA
- Nov 11** *Seventh Annual Discovery Day* at AT&T Park
FREE Hands-on activities for kids of all ages
San Francisco, CA
- Nov 13** Golden Gate Polymer Forum Dinner Lecture
Electroactive Fluorinated Polymers
Larry Judovits, Principal Scientist, Arkema
Michaels at Shoreline, Mountain View, CA
- Nov 15** *DFJ Entrepreneurial Thought Leader Series*
Anne Wojcicki, CEO/co-founder of 23andMe
NVIDIA Auditorium, Stanford University
- Nov 27** *The Chemical Biology of Protein Misfolding Disease*
Jason Gestwicki, Professor, UCSF
Clark Center Auditorium, Stanford University
- Nov 29** *More from Patrick Brown on Impossible Foods*
NVIDIA Auditorium, Stanford University
- Click on links for more information or
see this newsletter at http://scvacs.org/?page_id=99