Newsletter

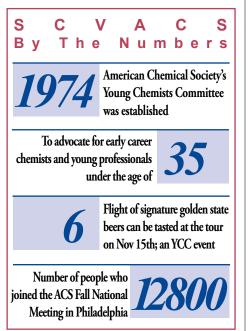


Santa Clara Valley Section

American Chemical Society Volume 38 No. 10

OCTOBER 2016 NEWSLETTER TOPICS

- ACS Honors SCVACS Couple with Public Outreach Award
- Connect with Chemists
- Chair's Message
- ACS National Council Report from Philadelphia
- Elections for 2017 SCVACS Leadership
- YCC and Senior Chemists Brewery Tour and Tasting
- We're Back! Rejuvenating Our Local SCV YCC
- Monterey Bay area October event
- SCVACS September Dinner Seminar The Information Landscape for Chemists at Work and Play
- Chemployment Abstracts
- Chemistry Quiz



Read the articles by Peter Rusch, Matt Greaney and November brew tour announcement for more.

ACS Honors SCVACS Couple with Public Outreach Award

Howard and Sally Peters, SCVACS members known as "Mr. and Mrs. Chocolate" because of their use of the delectable sweet to explain the wonders of chemistry to non-scientists, were the recipients of the

ACS 2016 Helen M. Free Award for outstanding public outreach. They were honored at a ceremony on August 23 during the 252nd ACS National Meeting and Exposition in Philadelphia.

For nearly 20 years, the Peters have toured the United States sharing their

Connect with Chemists

Meet fellow local chemists for an early morning coffee. Look for Ean at a table with molecular models.

Thursday, October 20, 2016, at 7 a.m. Coupa Café, 538 Ramona Street, Palo Alto (a half a block off from University Avenue)

Chair's Message Jane Frommer



As this year winds down, our local section activity ramps up. Several of these events arise from new areas of activity in our section for you to check out. Evidence follows.

SCVACS Younger Chemists Committee (YCC) is back!

Matt Greaney is working with the ownership of the *Golden State Brewery* in Santa Clara to host a *gathering of chemists* on their premises for the evening of November



Howard and Sally Peters

signature presentation, "Chocolate — Food of the Gods," which explores the history and chemistry of one of America's favorite treats. They also have been scientist-author lecturers on Cunard's Queen Mary 2

and on Princess Cruise ships. Other venues have included churches, science clubs, children's museums and schools. Through these activities, they say they have reached out to virtually every demographic, including underrepresented groups in science.

The chocolate presentation was inspired, in part, by Howard Peters' childhood — he grew up about 100 miles from the Hershey chocolate factory in Pennsylvania and can still recall sweet scents wafting through the air.

Howard Peters, Ph.D., earned his bachelor's degree in chemistry at Geneva College in Beaver Falls, Pennsylvania, and his

continued on next page

15, 2016. Brewmaster Seth Hendrickson will lead a tour of the facility and speak about the brewing process. The event is jointly sponsored by the YCC and the Senior Chemists Committee. Flights of beer and food truck refreshments will lubricate intergenerational conversations.

Matt is an Alternate Councilor for the SCVACS. He has been active in the California section's YCC and has plans to organize joint Younger Chemists programs between the two vicinal sections. *Contact him* with your ideas for future YCC events and to become involved with this dynamic YCC group.

Monterey Bay ACS activity thrives!

Slava Bekker is taking the reins in organizing our future Monterey Bay (MB) area *continued on next page*

ACS Honors, continued from front page

doctorate at Stanford University. He received his law degree from Santa Clara University in California. As a chemist, he led research projects on volatile anesthetics, organic fluorine compounds, herbicides and high explosives. Following his career in the lab (becoming a co-inventor on seven U.S. patents), he was a patent attorney in Silicon Valley for more than 30 years. He has been an ACS member for more than 50 years and a member of the ACS Council for 30 years. He served on the Society's Board of Directors from 2005 to 2007.

Sally Peters also earned her bachelor's degree in chemistry at Geneva College and received a master's degree in library and information science from San Jose State University. She was an information specialist at Xerox PARC in Palo Alto, California, for more than 28 years. Earlier in her career, she conducted virus research at Stanford under

Chair's Message, continued from front page

ACS activity with a dinner lecture scheduled for Friday evening, October 21st. *This second MB event* follows the *inaugural Monterey Bay ACS event* that took place in April 2016 at Cabrillo College. It sold out due to *high demand*!

The October 21st event will take place at the Moss Landing Marine Labs. Dr. Kenneth Coale will speak about his research "Seeing Through The Fog: Discovering the Cycling of Mercury From Sea To Land". Preview it *bere*.

Slava is on the chemistry faculty of Hartnell Community College in Salinas. She is a member of the SCVACS Teacher Scholar Community College *Award* Committee. Her extracurricular activity includes mobilizing to provide after-school science tutoring in Salinasarea high schools, in longer term preparation for their participation in the ACS Chemistry Olympiad.

Also on tap for October and November: Saturday, October 1: a repeat of last year's popular multi-section ACS event at UC Davis, "The Flavors of Chemistry". Professors Moshe Rosenberg and Andrew Waterhouse will speak about the chemistry of cheese and wine, respectively. Their talks will be followed by a selection of wine and cheese pairings. Saturday, October 15: local celebration of National Chemistry Week with the theme "Solving Mysteries through Chemistry". Martin Luther King Library, San Jose. A day of hands-on science activities for elementaryschool children and their parents organized the direction of Hubert Loring, Ph.D., the chemist who first crystallized the polio virus, which was later used by Jonas Salk to create the first effective vaccine for the disease. Sally has served as an ACS councilor for more than 20 years.

In addition to their chocolate presentations, the couple has for years supported the ACS–UN International Chemistry Olympiad, the Intel International Science & Engineering Fair and KIDvention, a program that encourages teams of children from underprivileged backgrounds to try inventing devices using common household items.

The Helen M. Free Award was established in 1995 to recognize outstanding achievements in public outreach. Free, a former ACS president, initiated many programs and activities designed to improve the public's awareness of chemistry's contributions to the quality of daily life.

by SCVACS member Abby Kennedy. Area chemists will supervise and explain the importance of each activity. *Volunteers welcomed. Saturday, November 5*:

The Bay Area Science Festival Discovery Day at AT&T Park - hundreds of hands-on activities and opportunities to meet local scientists and engineers in a forum of educational entertainment on a major league baseball field. The entire ballpark is packed with booths, including ours with hands-on ACS activities. SCVACS member Natalie McClure oversees our participation and *welcomes you as a volunteer*.

November 17:

SCVACS Community College Teacher-Scholar Award Ceremony and Dinner at San Jose City College. More info to follow on our website and in our newsletter.

Contact: Jose Cabrera.

November 30:

SCVACS tour of the new *Silicon Valley US Patent and Trademark Office*, San Jose. More info to follow on our website and in our newsletter. Contact: *Howard Peters*.

We hope to see you at one or several of these upcoming events. Bring a friend or family member to introduce them to your dynamic local ACS science organization.

Don't forget to participate in the 2016 elections of your SCVACS 2017 leadership team! You will receive a ballot and voting instructions by email early November.

•••

•••

٠

ACS Council Report

Peter F. Rusch

The ACS council met Wednesday morning, August 24 in Philadelphia during the 252nd ACS National Meeting.

Each of three elected committees of the Council held an election for new members: Council Policy Committee (CPC); Committee on Nominations and Elections (N&E); and Committee on Committees (ConC). Sally Peters was elected to a three-year term on CPC. Results of the elections will be reported in a future issue of C&ENews.

Council also voted to approve the continuation of the Committee on Analytical Reagents and the Committee on Chemical Abstracts Service. Continuations are also subject to further approval of the Board of Directors.

Two local sections, one in West Texas and the other in Northern Michigan requested annexation of counties adjacent to their current territories. Both were approved.

On the recommendation of the Committee on Membership Affairs, the Council approved a petition to amend the ACS Bylaws to extend the Unemployed Members' Dues Waiver, which will extend waivers for unemployed members' dues from the current two years to three years, subject to confirmation by the Board of Directors. One of our Councilors cast the only "No" vote noting the change was vague and ambiguous.

On the recommendation of the Committee on Economic and Professional Affairs, the Council approved the Chemical Professional's Code of Conduct, subject to confirmation by the Board of Directors.

On the recommendation of the Committee on Constitution and Bylaws, the Council approved the Bylaws for Divisions in Probationary Status and the Charter Bylaws for New Local Sections.

On the recommendation of the Committee on International Activities, the Council approved the establishment of ACS International Chemical Sciences Chapters in Greater Beijing, Southwestern China, and Iraq, subject to confirmation by the Board of Directors.

There was a half-hour open discussion on the proposed recommendations from the ACS Presidential Task Force on the U.S. Employment of Chemists. It was a subdued discussion with a small number of councilors participating. The report is expected to be released later this year.

The Society's current projection is for a continued on next page

ACS Council Report, continued from previous page

net from Operations of \$17.3 million. This is \$3.9 million higher than the Approved Budget. Total revenues are projected to be \$528.8 million, essentially on budget, and total expenses are projected at \$511.5 million, which is 0.6% favorable to budget.

The Committee on Budget and Finance considered several program funding requests for 2017, and on its recommendations, the Board subsequently approved funding for the Atlantic Basin Conference on Chemistry, the ChemIDP Program; and the International Student Chapter Program. Additional information can be found at *www.acs.org*, at the bottom of the page, click 'About ACS', then 'Financial'. There you will find several years of the Society's audited financial statements and IRS 990 filings.

As of Tuesday evening, August 23, total attendance was 12,800 in the following categories:

Attendees	7,437
Students	3,249
Exhibitors	1,181
Expo only	613
Guest	320

The Council passed traditional, proforma resolutions in memory of deceased Councilors; acknowledging President Donna Nelson's service as presiding officer of the Council; and in gratitude for the officers and members of the Philadelphia Local Section, the host Section for the 252nd National Meeting, the divisional program chairs and symposium organizers, and ACS staff. Adjournment followed.

Elections for 2017 SCVACS Leadership

The election of members of our 2017 SCVACS leadership team will take place in November 2016. As a member of this section, you will receive on-line voting instructions by email.

The Santa Clara Valley Section Executive Committee is pleased to present the slate of candidates, below.

Positions on the slate include Chair-Elect, Secretary, Treasurer, Councilors and Alternate Councilors. See descriptions of those positions here.

Chair-Elect

Melody Esfandiari, San Jose State University Secretary Richard Bone, Patent Attorney Treasurer

Ihab Darwish, Rigel Pharmaceuticals

Councilor

3 positions: two 3-year terms and one 1-year term

The two candidates with the most votes will fill the 3-year positions.

The candidate with the 3rd most votes will fill the one-year position.

Charlie Cox, Stanford Matt Greaney, Clariant George Lechner, Retired, Xerox Peter Rusch, Retired, Lockheed Martin Herb Silber, Retired, San Jose State University

Alternate Councilor

3 positions: two 3-year terms and one 1-year term

The two candidates with the most votes will fill the *3*-year positions.



The candidate with the 3rd most votes will fill the one-year position.

Andrew Bartynski, Ubiquitous Energy Slava Bekker, Hartnell Community College Mark Kent, Educator Howard Peters, Retired, Patent Attorney Elizabeth Pollom, San Jose State University

A call for nominations of petition candidates went out to all members of the section by email on September 9, 2016. Properly completed petitions received by the due date of October 3, 2016, 5pm local time will appear on the ballot. Requirements for petition candidates include:

- the name of the proposed candidate
- the proposed position
- 15 supporting SCVACS member names and signatures and ACS membership numbers
- submission by email of the completed petition (as a PDF) by October 3, 2016, 5pm local time to the SCVACS Secretary at *rgab@scvacs.org*.

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.

Upcoming Event for November 15, 2016 What's Brewing with the YCC?

The Younger Chemists Committees (YCC) of the Santa Clara Valley Section and the California Section of the ACS will host a brewery tour, tasting, and talk at Golden State Brewery in Santa Clara on Tuesday, November 15, from 6-8 pm. This event requires registration and is open to all. We would especially like to extend this invitation to the Senior Chemists of the SCV and CA sections to attend and see first-hand what's happening with local YCC efforts. The mingling of generations can yield pleasant surprises.

The event will begin with a tour from the head brewer and owner, Seth Hendrickson. Following the tour, Seth will give a brief talk about the brewing process with a Q&A session to follow. Registration will include a flight of six signature Golden State beers as well as a meal voucher to be used at the on-site food trucks. The YCC will also be announcing details of a future event, so be sure not to miss this one!

Golden State Brewery is located at 1252 Memorex Dr., Santa Clara, CA 95050 Standard registration: \$20/person Discounted registration (for enrolled students and 50-year ACS members): \$10/person Register at *www.scvacs.org*



We're Back! Rejuvenating Our Local SCV YCC

By Matt Greaney, Alternate Councilor for the Santa Clara Valley ACS Section



The American Chemical Society's Younger Chemists Committee (YCC) was established in 1974 to advocate for early career chemists and young professionals. Officially for those under the

age of 35, the YCC is intended to serve as the voice of younger chemists to the Society as a whole. There are three primary goals that drive YCC activity: (1) to make ACS relevant to younger chemists, (2) to help prepare and develop tools to assist in the transition from academia to the professional sector, and (3) to increase involvement of younger chemists at all levels of ACS.

Transitioning from college to a new job can sometimes produce an unexpected sense of isolation from the greater scientific community. During graduate studies, we are immersed in an intellectually invigorating environment with experts in every field just a door, floor, or building away. You eat, drink, and sleep thinking about your work, and your colleagues do the same. Daily conversations about your research, weekly special topic seminars, and annual technical conferences provide a sense of comradery and involvement in the scientific community. These feelings can quickly evaporate after moving onto an industry position. Highly technical jobs demand expertise and experience accumulated during academic studies, yet they do not necessarily provide the means to stay informed and exposed to the rich happenings of the scientific community outside of your specific field.

Enter your local ACS section and the YCC. As a recent PhD recipient, I know firsthand the void one may experience in the year after graduation. Don't get me wrong- I love my job as an R&D chemist. I find it incredibly rewarding and interesting, and I consider myself very lucky to have such an opportunity. Yet it's hard to ignore the drop-off in scientific variety and activity that can accompany the transition. That's why I decided to explore what my local ACS Section could offer. Our very active local Section provides a forum for members to engage the greater technical community through excellent monthly events including special topic dinner seminars, weekend tours to scientifically appealing destinations (see May 2016 newsletter article: Tour of Silicon Valley Advanced Water Purification Center), a plethora of local volunteer

opportunities to interact with the nonscientific community, and the opportunity for young professionals to get together in the activities of the YCC.

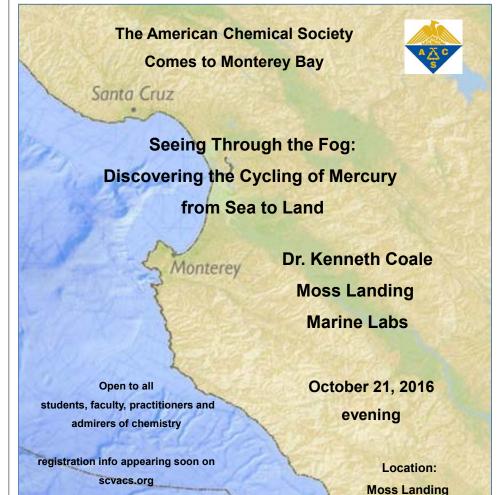
Much like the governing structure of the ACS, the YCC is composed of a single national committee and numerous local section committees. Although dormant for the past two years, the local SCV Section YCC has had a rich history of activity, which we are determined to carry on. Thus far in 2016, we have partnered with the California Section YCC to plan and host several events including a Motherhood in Chemistry panel discussion and a speed-mixer for young professionals on the UC Berkeley campus. We are currently in the midst of preparing for an upcoming brewery tour, tasting, and talk on the chemistry of brewing (see- What's Brewing with the YCC in this edition of the SCV newsletter, The Silicon Valley Chemist). Other events are now being planned, including a fun run, a



networking social, and an entrepreneur panel to be held during the upcoming spring 2017 National Meeting in San Francisco.

Participating in the YCC and your local ACS Section is a great way to stay engaged and active in the greater scientific community. Whether you are looking for a means of networking with fellow young professionals, volunteering at local science outreach activities, or just enjoying a flight of beers at a local brewery, we are always looking for new YCC members to enrich our ranks and contribute their talents and enthusiasm. If you are interested in learning more about your local YCC, contact Matt Greaney at *greaney19@gmail.com*.

Marine Labs



Preview here

SCVACS September Dinner Seminar

The Information Landscape for Chemists at Work and Play

Grace Baysinger – the Head Librarian and Bibliographer at the Stanford Swain Chemistry and Chemical Engineering Library – was the speaker for our monthly dinner lecture in September.

She provided an illuminating overview of the state-of-the-art in chemical information resources, most in digital form. While some resources are limited to current students, faculty, and staff at subscribing institutions, a growing number of resources are openly accessible to everyone. Her presentation took us on a tour of key chemistry resources plus interesting and cool resources to explore for fun. It included opportunities and challenges facing 21st century research libraries. As a long-time participant in ACS National

committees, she also summarized opportunities for serving on committees or participating in Divisions in ACS that have a chemical information focus.



Peter Rusch, Bonnie Charpentier, Lee Latimer, Grace Baysinger (speaker and member) Jane Frommer, Heddie Nichols and Jeanny Yao (both new members) and Todd Eberspacher.



Lois Durham (founding member), Sally Peters, Howard Peters, Steve Boyer, Harold Lip and Susan Oldham-Fritts



New Members Heddie Nichols and Jeanny Yao

CHEMPLOYMENT ABSTRACTS OCTOBER 2016

CHEMPLOYMENT ABSTRACT 3994

Position Title: Tenure Track Assistant Faculty

Job Description: The successful candidate is expected to establish a vigorous and productive undergraduate research program in the broadly defined area of biochemistry, pursue external funding for research objectives, and excel in teaching biochemistry, general chemistry, and special topics courses in their area of expertise. QUALIFICATIONS DESIRED:

Education: Ph.D.

Experience: Postdoctoral experience in biochemistry or a closely allied field is required, along with a strong commitment to teaching and undergraduate research. College teaching experience of a diverse student body is desirable.

LOCATION, SALARY, EMPLOYER:

Job Location: Santa Clara, CA, in the heart of Silicon Valley

Salary: Competitive salary, benefits package and housing assistance program Description: Santa Clara University is a private, Jesuit Catholic university committed to promoting social justice; and as an Equal Opportunity/Affirmative Action employer, is committed to excellence through diversity and inclusion, and, in this spirit, particularly welcomes applications from women, persons of color, and members of historically underrepresented groups

Application Instructions: Completed applications must be received by October 14, 2016. For complete job description and instructions for submission of materials, visit https://www.scu.edu/br/prospective-employees/employment-opportunities/

Chemistry Quiz

What substance was invented in the 9th century by mixing sulfur, charcoal, and potassium nitrate?

Last Month's Quiz

Vermilion is a brilliant red pigment that was used in ancient Rome, illuminated manuscripts of the Middle Ages, and lacquerware of China from the 16th century B.C.E. onward. What is the inorganic compound that gives vermilion its color?

Mercury(II) sulfide

The Santa Clara 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 Santa Clara Valley Section of the American Chemical Society.



SANTA CLARA 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

SANTA CLARA VALLEY SECTION

2016 Sect	ion Officers			0.11	FUTURE EVENTS	
Chair	Jane Frommer	408-927-2224	frommer@scvacs.org	Oct 14	William S. Johnson Symposium	
Chair Elect	Todd Eberspacher	650-723-2505	eberspacher@stanford.edu		Stanford University	
Past Chair	Abby Kennedy	209-640-2005	akennedycali2007@yahoo.com	Oct 15	ACS National Chemistry Week Celebration	
Secretary	Richard Bone	650-714-7897	rgab@scvacs.org		Dr. Martin Luther King Library	
Treasurer	Ihab Darwish	650-594-1654	darwishis@yahoo.com		San Jose, CA	
		0)0))1 10)1	dai wishis@yanoo.com	Oct 21	Monterey Bay Area ACS Dinner Seminar	
Councilors					"Seeing Through the Fog: Discovering the	
2014-2016	George Lechner	408-226-7262	glechner@aol.com		Cycling of Mercury from Sea to Land"	
2014-2016	Herb Silber	408-924-4954	hbsilber@science.sjsu.edu		Dr. Kenneth Coale	
2016-2016	Peter Rusch	650-961-8120	pfrusch@aol.com		Moss Landing Marine Labs	
2015-2017	Ean Warren	650-329-4554	ewarren@scvacs.org		More info at www.scvacs.org	
2016-2018	Bonnie Charpentier	650-380-5353	charpentierbon@yahoo.com	Nov 5	Discovery Day at AT&T Park	
2016-2018	Linda Brunauer	408-554-6947	lbrunauer@scu.edu			
2016-2018	Sally Peters	650-854-4614	sallybrownpeters@gmail.com	Nov 10-11	Pressure Sensitive Adhesive Fundamentals	
Alternate Councilors					(Short Course) Sponsored by Golden Gate Polymer Forum	
2014-2016	Mark Kent	408-736-0989	marklent@yahoo.com		Michael's at Shoreline	
2015-2016	Howard Peters	650-854-4614	peters4pa@sbcglobal.net	Nov 15		
2015-2017	David Parker	408-615-4961	drdrparker@comcast.net	INOV 15	What's Brewing With the ACS YCC and the Senior Chemists?	
2016-2016	Matt Greaney	510-410-0195	greaney19@gmail.com		Golden State Brewery	
2016-2018	Natalie McClure	650-906-7831	nmcclure@drugregulatoryaffairs.com		Santa Clara, CA	
2016-2018	Heidi Vollmer-Snarr	650-723-9518	hrvsnarr@stanford.edu	NI 17		
2016-2018	Stephanie Bachmann	408-429-9681	s_gehling@hotmail.com	Nov 17	SCVACS Presentation of the Community	
NT 1	-				College Teacher Scholar Award	
Newsletter					San Jose City College	
Editor	Kevin Greenman	408-634-2309	editor@scvacs.org		More info at <i>www.scvacs.org</i>	
Assoc. Edito	r Partha P. Bera		partha.pb@gmail.com	C	lick on links for more information or	
ChemPloyment Abstracts				see this newsletter at <i>http://scvacs.org/?page_id=99</i>		
Director:	Liang Cao		liang.cao@aol.com			
Director	Liang Cao		nang.ca0@a01.c011			

FUTURE EVENTS