

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

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AUGUST 2014 NEWSLETTER TOPICS

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A Meeting by the Bay

As I'm sure you are aware, the National Meeting will be held in San Francisco this August. The meeting will be co-hosted by our section and the nearby California local section. As I mentioned in my March message, National Meetings provide an excellent opportunity to catch up on current research and to meet scientists who are the best in their field. The SF National Meeting will also provide great volunteer opportunities. We are looking for volunteers to help with a science outreach event on Saturday, to staff the Host Local Section Booth, and for paid student volunteers to work at the National Meeting.

The Committee on Community Activities, along with the Santa Clara Valley and California local sections, will be hosting an outreach event for the San Francisco community on the day before the start of the upcoming 248th ACS national meeting, which will be August 10-14. The event will be



Ean Warren, Chair

held on Saturday, August 9th, 10:00 am to 2:00 pm at the Children's Creativity Museum, 211 Fourth Street, San Francisco, CA 94103 (creativity.org).

This outreach event will feature 8 hands-on demonstration stations where children will have the ability to learn about a variety of chemical properties and to explore chemistry in a fun and exciting environment. Plan to take the family! See <http://creativity.org/upcomingevent/exploring-our-world-through-chemistry/>.

The Host Local Section Booth allows us to welcome meeting attendees and to promote our local section and activities. If you are interested in helping staff the hospitality booth, or if you have ideas for information about the Bay Area or our local section we should include, please contact Brittany Westlake at brit.westlake@gmail.com.

We will also need about 15 student volunteers to work at the National Meeting from Friday, August 8 through Wednesday, August 13. Students will be paid \$13 per hour and will receive a badge and be able to attend sessions when they are not scheduled to work. Students will work at the operations office in the convention center and/or meeting hotels. Duties will include running errands, delivering signs, setting up poster sessions, answering phones, and other duties as required by ACS staff. If you are interested in this opportunity, please contact Brittany Westlake (brit.westlake@gmail.com) for an application.

Finally, for those members who are unemployed, I urge you to attend ACS Career Navigator (www.acs.org/content/acs/en/meetings/fall-2014/career-development.html) where you can attend career development workshops and classes and the career fair. The fair provides you with the opportunity to

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Connect with Chemists

Meet fellow, local chemists for an early morning coffee
Look for Ean at a table with CH₄ and CO₂ molecular models

Tuesday, August 19th at 7 a.m.

Peet's Coffee & Tea

102 Grand Avenue, South San Francisco

Thursday, August 21st at 7 a.m.

La Boulange

151 University Avenue, Palo Alto

248th ACS National Meeting

248th National meeting of the American Chemical Society will be held in San Francisco in between August 10-14, 2014. Theme of the national meeting will be "Chemistry and Global Stewardship".

What does Chemistry and Global Stewardship really mean? See the 'Kavli Lecture Series' (<http://www.acs.org/content/acs/en/meetings/fall-2014/program/kavli-lecture-series.html>) and the 'Plenary Speaker lineup' (<http://www.acs.org/content/acs/en/meetings/fall-2014/program/plenary-session.html>), as well as theme-related symposia and workshops.

Registration is open! Scientific program is up on the web (<http://www.acs.org/content/acs/en/meetings/fall-2014/program.html>)

applications and resumes, meet employers, get person career counseling, and more. Best of all, attendance of the meeting is free for unemployed

members. This meeting is a great opportunity to polish your resume and interviewing skills and possibly land a fantastic job!

Lee H. Latimer Recipient of the Radding Award

Dr. Latimer has spent the bulk of his career working in pharmaceuticals with Eastman Kodak, Sterling-Winthrop and, most recently, over 15 years with Elan Pharmaceuticals in South San Francisco. He is currently a consultant in the pharmaceutical industry. At Elan, he led medicinal chemistry, process chemistry and analytical chemistry groups working in Alzheimer's Disease (AD) and Multiple Sclerosis. The medicinal chemistry work led to an advanced clinical compound for AD. The process chemistry work led 5 compounds through synthesis development and GMP production for clinical trials. He is a co-inventor on over 55 US patents and has over 25 publications and invited presentations. He received his Ph.D. with Professor Barry Trost at the University of Wisconsin.



Dr. Latimer's ACS activities have spanned over 30 years in 4 local sections and several divisions. He served as Chair of the Rochester Section (1988) and the California Section

(2004) where he currently is a member. He has led and/or participated in many activities including program development, long range planning, National Chemistry Week, pre-college education, regional meetings, host committees for national meetings and golf tournaments. As a Councilor and Alternate Councilor he has served on the Committee on Local Section Activities (Chair, 2010-2012), the Committee on Public Relations and Communications and is currently an elected member of the Council Policy Committee. He is particularly proud of the development of partnership activities between sections in the Bay Area including the recent 2013 Western Regional Meeting (General Co-Chair), the Interview Skills Workshops, and the Chemists in the Community outreach at the 2006 San Francisco National Meeting. He has received the California Section's Walter Petersen Award for Service (2010) and the Rochester Section Award (1991).

Welcome to the Santa Clara 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 spouse (or friend) will be our guests. The seminar meetings are often the 3rd Thursday of the month at a local spot, somewhat convenient to the entire section. If you are unable to attend in the evening, perhaps you would join us for an outreach event, like judging a science fair, participating in the Chemistry Olympiad, or 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 Members for June/July

June				
Brandon Allgood	Dr. John Knox	Dr. Matthew A. Perry	Qing Xu	Lisa Dorsey
Natasha Arksey	Patrick Kramer	William Pfalzgraff	Nuoya Yang	Kara Fong
Heather Bailey	Dr. Divya Kumar	Dr. Ewa Maria Pruszkowski	Dr. Jiazhong Zhang	Yang Han
Samuel Banister	Dr. Tadanori Kurosawa	Nir Qvit	Taylor Yonghua Zhang	Wilson Ho
Timothy Blake	Dr. Cheni Kwok	Srinivasan Ramakrishnan	Xiangyi Zhang	Valerie Huynh
Linda Castle	Dr. Stephen Paul Lathrop	Ofelia Romero	July	Da Sol Kuen
Young Chang	Dr. Margaret Leclerc	Humberto Sanchez Jr.	Natalia Achar-Zadeh	Stephen Mangum
Derek Croote	Xiaoyan Li	Bernadette Schneider	Dr. Luis Agapito	Marc Nakashima
Kejia Ding	Zhengzheng Li	Adam Schrier	Dr. Anne-Sophie Aldiguier	Dr. Todd A. Ostomel
Nasim Ehterami	Professor Bo-Lin Lin	Bin Shen	Semere Ghebru Bairu	Dr. Nick A. Paras
Joshua M. V. Gardner	Yu Lin	Xiaoming Shen	Joao Luiz Baldim Zanin	Alexis Sarabia
Jake William Ginsbach	Jeffrey Lopez	Akira Shimizu	David S. Bergsman	Tomohiro Seki
Claes Gustafsson	Steven Anthony Loskot	Deepika Singh	Andrew Bockus	Lubab Sheet
Yang Ha	Qing (Jane) Lu	Amit Srivastava	Sandhya Bodapati	Doris Tang
Lindsey Hanson	Dr. Suresh K. Manthati	Leonard Sung	Megan Buonaiuto	Robert Thompson
William M. Hewitt	Spencer McManus	Tony Loc Ton	Cole Carter	Vivian Tran
Guosong Hong	Jun Nishida	Kate Waldie	Dr. Yeon Choi	Sriranga Veeraraghavan
Dr. Yingying Huang	Alberto Ortega	Alexander Willis	Kevin Chung	Allison Wustrow
Sunhee Hwang	Stephanie R. Ossesia	Dr. Tyler W. Wilson	Jon Conway	Rongfeng Yuan
Dr. Hemamala Karunadasa	Rebecca Shih-Ping Ou	Dr. Shilpa A. Worlikar	Luis Cuadra-Rodriguez	Gary Yuen
	Kimberly Parker	Hongliang Xin	Dr. Basile Curchod	

Chocolate in San Francisco

By Howard and Sally Peters (aka Mr. and Mrs. Chocolate)

The 2014 ACS National Chemistry Week theme in October is The Chemistry of Candy. For the chocolate lover in all of us, San Francisco is the place to be. Here are some tips on local places to find the fruit of Theobroma cacao – the Food of the gods.

Ghirardelli: www.ghirardelli.com

The iconic Ghirardelli Square may no longer be a wonderful smelling food factory, but it does have many tourist boutiques. Ghirardelli's old neighbor James Lick moved from Chile to San Francisco about 1847. Lick soon wrote to Ghirardelli in Chile that gold had been discovered in California and to come quickly and get rich. Ghirardelli came but was apparently a terrible gold miner. Instead, he found his 'brown' gold in great chocolate. A visit to this corner chocolate shop is pricy but worth it – just for the smell. Also visit Ghirardelli at 42 Stockton St.

See's Candies: www.sees.com

The trade-mark black and white See's Candies shops are found in downtown San Francisco at the Flat Iron Building, 540 Market St. (near Montgomery), and Three Embarcadero Center (on Commercial St.). Mary See and family came from Canada to Pasadena about 1920 and established what became a California institution. The iconic I Love Lucy chocolate line episode was filmed at the See's factory in Pasadena. See's has been owned since the 1970s by Warren Buffett and Charles Munger's Berkshire-Hathaway. See's is supplied by Guittard Chocolate www.guittard.com. Based in Burlingame, Guittard 145 year tradition of chocolate production.

Scharffen Berger: www.scharffenberger.com

John Scharffenberger was early a champagne-style winemaker in Napa County. He sold off the bubbly and joined with physician Dr. Robert Steinberg to create this premier chocolate company. Scharffen Berger can usually be found at local Whole Foods markets. There is also a shop in the Ferry building. John Scharffenberger was an angel investor when we started our chocolate adventures 10 years ago. He responded to our request for chocolate samples for our attendees with over \$1,000.00 worth of chocolate (sorry it is all gone now). This high end line was purchased by Hershey in 2005. The local factory and headquarters on Heinz St. in Berkeley was closed in April 2009. So far Hershey hasn't tinkered with the Scharffen Berger formula for success. Hershey currently manufactures all Scharffen Berger Chocolate in downstate Illinois.

TCHO: www.tcho.com

This relative newcomer has made a splash on the Pier 17 in San Francisco. The company was founded by a venture capitalist and a NASA engineer. Everything is done very scientifically – even down to the beta testing of the products.

The Chocolate Church

The Congregational Church of Belmont (20 miles away near SFO) features an annual Chocolate Festival – for those who know that chocolate is a religious experience. This year's event will be held October 3rd and 4th...all the chocolate items you can sample (plus champagne and coffee) in three hours for about \$20.00. This event never makes any money on us. More information is online at: www.ucbelmont.org/events.html#ChocolateFest.

A number of specialty retailers have chocolate offerings worth a visit. Fog City News at 455 Market St. (near Montgomery) still carries over 500 different varieties of chocolate bars from around the world. Preston's Candy www.prestonscandy.com in Burlingame has been a local favorite for over 60 years. At Passover/Easter, they even carry chocolate covered matzos. Charles Chocolates <http://charleschocolates.com/> now has a location at 535 Florida St. in the San Francisco Mission District and also offers a high tea and chocolate. It is definitely worth a visit.

Share Your News in the SCVACS Newsletter

The Silicon Valley Chemist is a monthly newsletter published by the Santa Clara Valley Section of the American Chemical Society. It is published in print and electronic forms on the first week of each month. The editors invite our readers to share their opinions, announcements, research breakthroughs, and article comments with fellow members of American Chemical Society in the Silicon Valley. For correspondence to be published in a future issue of the Silicon Valley Chemist, the electronic copy must reach us via e-mail to editor@scvacs.org by the 10th calendar day of the month to be considered for the next month's issue. All submissions are subject to editorial scrutiny.

Calling all Chemistry Ambassadors

By Abby Kennedy

As your local National Chemistry Week Coordinator, I am soliciting volunteers to help with National Chemistry Week 2014, to be celebrated this year from October 19-25th with a theme of "The Sweet Side of Chemistry—Candy!" I can almost smell the candy corn in the air! This year I'll need some really creative people to help design hands-on experiments around the theme of candy, without promoting eating in the lab! We will run our annual public outreach booth on Saturday, October 19 from 10am-1pm at the Dr. MLK Jr. Library in downtown San Jose. Volunteers that would like to help plan the booth or help that day should contact me. If you have other great ideas for how to celebrate NCW this year, please let me know! No idea is too crazy, so come on innovators--shoot me an email! Akennedycali2007@yahoo.com

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Highlights of the Annual Wine Tasting, Family Picnic and Awards Ceremony



Peter Rusch serving wine to Lee Latimer and Wilson Ho



Peter Rusch pours wine for Tom Passell



Bruce Raby, Jean Brennan, Tom Passell and Lee Latimer



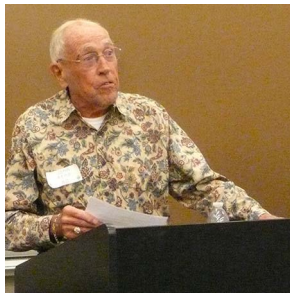
Laila Esmaeili and Tatiana Morante



Mark Kent and Paul Simon



Mark Kent and John McCormick



John Atno speaking after receiving his 60-year certificate

Awards Ceremony



Lee Latimer (left) receiving the Radding Award from Peter Rusch



50-year member Paul Simon, speaking and gesturing



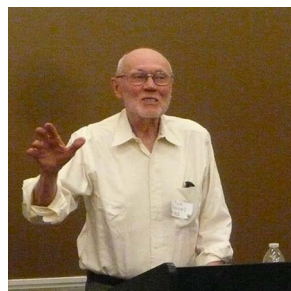
60-year member Lois Durham speaking from her seat



Cameron Ainsworth gets his 65-year certificate from Ean Warren



Bill Lee speaking after receiving his 65-year certificate



Tom Passell speaking after getting his 60-year certificate



Frank Tao gets his 50-year certificate



Kirtland McCaleb receives his 65-year certificate from Ean Warren

Vote On Our Element

By Ean Warren

Foothill College has a large Periodic Table on the wall outside its new science building. This science art piece is about 50 feet long and 15 feet high. Each element is represented by a square with the element symbol, atomic number, and a picture. Some elements are sponsored: they include a short, permanent inscription. As part of our Section's 60-year anniversary celebration, we would like to sponsor one or two elements. We want to provide inscriptions that are relevant to ACS members and



that make a long-lasting statement to our community promoting chemistry through the history and chemistry of the elements.

After the elements are chosen, the Section will sponsor an evening at Foothill College in November to unveil the sponsored element(s) and listen to a talk on the history and chemistry of the element(s). In addition, we will host an elements poster session by local college students. We expect quite a few attendees for both events. The Section feels strongly about reaching out to students by providing them with volunteer and learning opportunities. By sponsoring an element in a public area where thousands of students pass every school year, we hope to highlight that element as well as the ACS.

To choose which element(s) to sponsor, we invite you to participate in our survey to nominate an element or two. (<https://www.surveymonkey.com/s/TXV6T>). Please tell us which elements we should sponsor and why. The survey closes on August 31!

Chemistry Quiz

In 1934, this professor emigrated to work at Stanford University. His work on "the development of new ways and methods for nuclear magnetic precision measurements" earned him the 1952 Nobel Prize, shared with Edward Mills Purcell.



The answer to June's chemistry quiz:

What element, present in higher concentrations in meteorites than in the earth's crust, was the basis for the Alvarez hypothesis explaining the extinction of the dinosaurs?

– Iridium

CHEMPLOYMENT ABSTRACTS AUGUST 2014

For a complete list of current abstracts, please visit: www.scvacs.org/Local_Folder/abstract.htm

CHEMPLOYMENT ABSTRACT 3969

Position Title: Research Associate/Senior Research Associate

Job Description: Genentech is seeking a Research Associate/Senior Research Associate to support drug discovery and development in the Small Molecule Discovery Chemistry department. Incumbent will join a high energy team that is responsible for all aspects of small molecule analysis from routine analyses using LCMS and ¹H NMR to detailed structural analysis using high resolution accurate mass LCMS.

QUALIFICATIONS DESIRED:

Education: B.S. or M.S. degree in Chemistry

Experience: Candidates must have at least 2 years' experience in the pharmaceutical industry. Candidates must have good theoretical knowledge of analytical chemistry, hands-on experience in LCMS and other analytical techniques (NMR, GCMS, Ion Chromatography, Karl Fischer, DSC, TGA) as well as excellent computer and analytical instrumentation skills

LOCATION, SALARY, EMPLOYER:

Job Location: South San Francisco, CA

Salary: DOE

Employer Description: For more than 30 years, Genentech has been at the forefront of the biotechnology industry, using innovative science to develop breakthrough medicines that improve the lives of people with serious or life-threatening diseases.

Application Instructions: Join us as we continue to tackle medicine's most challenging problems and live a life inspired. To apply visit gene.com/careers/find-a-job and search job # 432904.

CHEMPLOYMENT ABSTRACT 3970

Position Title: Chemistry Instructor, part-time, multiple assignments

Job Description: The Department of Natural Sciences at Notre Dame de Namur University (NDNU) is looking for part-time instructors for several lower-division chemistry courses for the Fall semester of 2014, which starts in late August. In particular, we are looking for faculty members who are interested in working with first-generation students and students from underrepresented backgrounds, as they make up a significant part of our student population.

Available assignments:

General Chemistry I Lecture (2 sections), MWF 10-10:50 a.m. and Noon -12:50 p.m.

General Chemistry I Lab (3 sections), Wed 2-5 p.m., Thurs 9:25-12:05 p.m. and Thurs 2-5 p.m.

General Chemistry II Lab, Friday 8-10:50 a.m.

Organic Chemistry I Lab (3 sections), Mon 2-5 p.m., Mon 11-1:50 p.m. and Tues 10:50-1:50 p.m.

QUALIFICATIONS DESIRED:

Education: Master's degree required; Ph.D. welcomed

Experience: Previous teaching experience with these courses is required; community college, public or private college experience welcomed

LOCATION, SALARY, EMPLOYER:

Job Location: Belmont, California, which is on the San Francisco peninsula.

Salary: Depends upon experience and number of teaching units in the assignment

Employer Description: Notre Dame de Namur University is a small, private university serving significant numbers of first-generation and underrepresented students. The courses listed above serve students in biology, biochemistry, kinesiology and pre-nursing.

Application Instructions: Contact Dr. Monica GuhaMajumdar (Chair, Department of Natural Sciences) at mguhama@ndnu.edu or 510-468-6394. We hope to fill these positions by the first week in August. Classes begin Wednesday, August 27.



SANTA CLARA VALLEY SECTION
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ChemPloyment Abstracts

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

- Aug 10-14** 248th American Chemical Society National Meeting
San Francisco, CA
- Aug 27** BioScience Forum
James Manuso, Ph.D.
Talfinium Investments, Inc.
www.biosf.org/programs.htm
- Aug 19** Conect with Chemist
Peet's Coffee & Tea, South San Francisco
- Aug 21** Conect with Chemist
La Boulange, Palo Alto
- Sep 25** September Dinner Meeting
Dr. Susannah Tringe
DOE Joint Genome Institute
Biltmore Hotel, Santa Clara, CA
- Oct 11** Teach the Teachers Workshop
Juanita Ryan and RAFT
Mission College, Santa Clara, CA
- Oct 21** Production of Karl Djerassi's Play
"Insufficiency"
Joint event with the CA section
Z Space Below Theater
San Francisco, CA