

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 38 No. 11

NOVEMBER 2016 NEWSLETTER TOPICS

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Connect with Chemists

Meet fellow local chemists for an early morning coffee.

Look for Ean at a table with molecular models.

Thursday, November 17, 2016, at 7 a.m.

Coupa Café, 538 Ramona Street, Palo Alto (a half a block off from University Avenue)

Santa Clara Valley American Chemical Society Teacher Scholar Award Dinner

Honoring the 2015 ACS Teacher Scholar: **Mark Zheng Ph.D.**
San Jose City College Chemistry Adjunct Faculty



5:30 PM Thursday November 17, 2016

San Jose City College Technology Conference Room: T 415



Interactive Campus Map of San Jose City College

The Technology Center is located on the corner of Moorpark Ave. and Bascom Ave.

Dinner Registration: www.scvacs.org, Students (\$10.00) and Regular (\$30.00)

For more information, contact SJCC Professor **Jose Cabrera**

The ACS Teacher Scholar Award, established in 2008 by the Santa Clara Valley section of the American Chemical Society, recognizes the contributions of Community College faculty to science and education. The award consists of an ACS plaque and a check for \$500 for the awardee, with another \$500 check being donated to the awardee's college chemistry department. It is with great honor and pride that we come together to recognize San Jose City College Chemistry Professor Dr. Mark Zheng as the 2015 SCV ACS Teacher Scholar Awardee. Dr. Zheng was selected for this prestigious honor from among the thirteen community colleges in

the SCV ACS local area, which includes five counties around San Jose, California.

Dr. Zheng is an extremely talented and dedicated colleague who has gone well beyond his teaching responsibilities in the chemistry department. Whether in the classroom or at national conferences, Dr. Zheng has demonstrated his dedication to the mentoring and encouragement of students toward academic success. A strong proponent of the San Jose City College Peer-Led Team Learning (PLTL) program, on more than one occasion, Dr. Zheng has led teams of students to the National PLTL IS Confer-

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Chair's Message

Jane Frommer



The success on October 21st of the *second Monterey Bay ACS event of 2016* leads us to believe that we have a keeper in this vibrant ACS subsection! On that day, over 50 chemistry-minded folks gathered at the Moss Landing Marine Labs to learn about the migration of mercury from sea to land. Speaker Dr. Kenneth Coale raised our awareness of

mercury transpeciation, its sources and its history. The dinner-lecture event drew attendance primarily from the Monterey Bay area, particularly from the surrounding 5 schools: Hartnell College (Salinas), Cabrillo College (Aptos), Monterey Peninsula College, Cal State U Monterey Bay, and UC Santa Cruz. Half of the attendees were students attending an ACS event for the first time, opening their eyes and minds to the benefits of a professional organization. 2017 events are already being planned by the new Monterey Bay ACS lead organizer, Dr. Slava Bekker of Hartnell College. She *welcomes your input* on speakers and venues.

November is election month not only

for local and federal government positions and issues, but also for ACS local sections. This year our Santa Clara Valley ballot bears, in addition to familiar names, many new names. Our local section welcomes newcomers with fresh ideas for a vibrant local chemistry community. Keep an eye out in early November for an email from VoteNow, the ACS-contracted electronic voting service.

Also on this year's SCVACS ballot is the vote on the section's name change, from Santa Clara Valley ACS to Silicon Valley ACS. We queried our SCVACS membership earlier in the year to test the sentiment on such a name change. Here's what you

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Community College, continued from front page

ence. His efforts as a scholar and educator have served to have San Jose City College nationally recognized as a hub for the effective implementation of Peer-Led instruction. It is important to note that Dr. Zheng has also modeled leadership as an adjunct faculty representative in the Academic Senate. For all that he represents, Dr. Zheng has earned the respect of students, faculty, and administrators at San Jose City College. Please join us on November 17th at San Jose City College in recognizing an outstanding scholar, educator, and leader: Dr. Mark Zheng!

Chair's Message, continued from front page

will see on the ballot, reflecting membership feedback:

The Section is requesting a name change because the current name describes a geography that is little known in the country. Better recognized is the location of Silicon Valley, which sprawls across the Santa Clara Valley and beyond.

The geographical extent of the Santa Clara Valley does not represent the majority of the Section that stretches from South San Francisco through Monterey Bay.

The Section's growing population along both the San Francisco Bay and the Monterey Bay is better described by the term "Silicon Valley" which also more accurately reflects the nature of the livelihoods in the region. The Santa Clara Valley had a legacy of apricot, cherry, and prune production before high tech industry replaced it as the dominant economic force in the area.

A preliminary poll regarding the proposed name change was taken earlier this year. E-mails were sent to the entire Section membership soliciting feedback on the proposal. The majority of responses were in favor of the new name, with many having been under the impression that the Section was already named the Silicon Valley ACS!

The Santa Clara Valley Section proposes to change the name of the section from Santa Clara Valley, to Silicon Valley, whereupon it will become known as the Silicon Valley Section of the American Chemical Society.

Please check one:

I support the proposed name change by the Santa Clara Valley Section.

I oppose the proposed name change.

No opinion.

Be a part of this decision by participating in this year's SCVACS elections.

Sally Peters Receives Roger D. Middlekauf Award for service to the ACS Division of Chemistry and The Law

At the reception at the ACS Division of Chemistry and the Law (CHAL) reception on September 22, 2016, in Philadelphia, Sally Peters received the Roger D. Middlekauf Award to recognize her long service to and support of the Division. Sally was a charter member of CHAL, which was started here in the ACS Santa Clara Valley Local Section about 1980. CHAL which is concerned with the interplay of chemistry and the law, intellectual property, regulations alternative careers for chemists. It now has over 1200 members and has regular programs at ACS national, regional and local section meetings. She has been involved for years with presenting papers, poster sessions at SCI MIX and the CHAL long running chocolate give-away and raffle at SCI MIX.

The Middlekauf Award of CHAL was



established in 1990 and has been presented annually to a deserving CHAL member. The late Roger Middlekauf, Esq., of Washington, DC, was a charter and active member of CHAL that created and filed for the CHAL incorporation in DC.

For more information, please visit <http://www.chemistryandthelaw.org/learn/>.

Silicon Valley US Patent and Trademark Office Tour

- Date:** Wednesday, November 30th
Time: 12:00 to 1:00 p.m. (IMPORTANT - Please plan to arrive by 11:45 am for admission and processing.)
Speaker: Welcome by John Cabeca, Director, plus 2 examiners
Location: San Jose City Hall
Silicon Valley U.S. Patent and Trademark Office USPTO
26 S. Fourth St., San Jose, CA 95113
Cost: FREE (Paid parking is nearby or use public transportation. Maximum of 50 adults on the tour.)

Reservations should be made by Friday, November 25th at www.scvacs.org, stating your name, address, affiliation, make a reservation for each member in your party. All visitors are required to present a valid, government issued photo identification. The list of 50 attendees must be submitted to SV USPTO on Friday for government processing.

The Silicon Valley regional office of the United States Patent and Trademark Office (SV USPTO) opened in San Jose City Hall in October 2015.

An ACS SCV tour of the SV USPTO is scheduled from noon (sharp) to 1 pm on Wednesday November 30, 2016. Tour attendees will learn about the USPTO, basic patent and trademark information, and the resources and services available to the public at this regional office. The SV USPTO tour is limited to the first 50 adult attendees to register (please no children).

NOTE: The Silicon Valley USPTO is a federal facility. All visitors are required to present a valid form of government-issued identification (driver license or passport) and may be subject to screening to gain access.

There is no charge to ACS SCV members for this PTO tour or meeting, but please plan to arrive by 11:45 am (sharp) for security check-in processing. Pay parking is available nearby and please consider public transportation or carpooling, if possible. Attendees will be free to self-assemble after 1 pm to find lunch spots nearby. No food is permitted during the tour.

The SV USPTO is located in the 3-story Wing building of the San Jose City Hall Complex. Its entrance is at 26 South Fourth Street, San Jose, CA 95113.

For more information, see [Silicon Valley U.S. Patent and Trademark Office | USPTO](http://www.scvacs.org)

For any additional information about the SV USPTO tour, please contact [Howard Peters](mailto:Howard.Peters@scvacs.org).

Councilor on Campus Report

By Dr. Linda Brunauer, Santa Clara University

It is a special delight to use this month's Councilor's Corner to focus attention on the many activities of our Student Member Chapters! Over the years these ACS-affiliated student clubs have participated in a wide array of activities—whether it be community service, support of college and university events, or team-building social gatherings, one thing is consistent: our students are an integral part of our ACS community. Simply put, they are fabulous! Here is a sampling of activities that four of our student groups have participated in during the last year as well as a peek into their plans for future events.

San Jose State University

During the summer of 2016, the SJSU Chemistry Club hosted their first event for the school year. Many members came in to help clean out their clubroom, which is a vital part of the student chapter as it is the location where many members congregate to study, buy snacks, and take a break from hectic schedules. They held their annual book sale and recruited new members at the College of Science Open House event.

In October, SJSU members hosted a Halloween Social for club members and joined the Santa Clara University Chemistry Club to provide assistance at an annual section event, doing hands-on science demonstrations with children at the Martin Luther King Library in San Jose. In addition to these events, the chapter sends out weekly emails to keep their members up-to date with events happening around campus including research and graduate preparation seminars, job fairs, and panels on careers in science. This year, the club once again won a Student Member Chapter Award from the American Chemical Society, celebrating their activities during the 2015-2016 academic year. Well done SJSU!

University of California, Santa Cruz

This past spring, the Chemistry Club at UCSC partnered with the Santa Cruz Police Department's PRIDE program. They introduced the world of chemistry to at-risk youth from the area. The club sponsored a variety of different demonstrations including combustion of methanol in a bottle—complete with a resounding “boom” and flames shooting from the bottle. Visiting students got a chance to do some hands-on activities as well, including using liquid nitrogen to deflate balloons and discuss the science behind the temperature-linked change in the volume of the balloon.

This fall, the Club will visit elementary schools in the Santa Cruz area to sponsor more demonstrations. In addition, they are excited to participate in chemistry-relevant seminars this coming year; of particular interest is a speaker who will discuss the importance of chemistry in the kitchen—it should be fun to combine two passions: chemistry and food!

Stanford University

Alpha Chi Sigma is the chemistry fraternity on the Stanford campus. Their student group is especially active in their outreach activities and in the advancement of chemistry, both as a science and a profession. Their outreach activities have involved teaching science to young students at a homeless shelter, organizing a public study night, and developing a chemistry lab technique video aimed at ensuring that new students work safely in the lab. Of special interest is their participation in SPLASH, a University program that brings high school and middle school students to campus for a 2-day learning extravaganza. They also participate in numerous activities that provide their members with professional development opportunities including graduate student panel discussions, industry panel discussions, research presentations, and resume workshops. Finally, the group sponsors a variety of social gatherings including movie and board game nights, social “hangouts” with other chapters, weekend retreats, and study nights.

Santa Clara University

The Santa Clara University Chemistry Club offers its members a range of activities each year. In the fall, they kick off their year with annual fundraising, offering safety goggles at an attractive price. For many years, they have participated in National Chemistry Week activities at the annual Martin Luther King Library event that features a morning of hands-on science demonstrations with children and parents visiting the library. The group particularly likes having the opportunity to meet students from the SJSU Chapter at this event each year! They also sponsor pizza parties with speakers visiting campus as part of the Departmental seminar program. Every year on or about October 23rd, the Club sponsors a Mole Day guessing game event in the Department of Chemistry and Biochemistry. For this event, students can attempt to win a giant package of treats by guessing how many moles of treats are in the package—the

4-pound jar of Jelly Bellies is usually the most popular treat! This year, the group is once again looking forward to hosting the regional testing for the annual National Chemistry Olympiad, coming to campus in spring. Professional development is also an important component of the club's mission. They have hosted several ACS webinars, including participation in the Program-In-A-Box series as well as arranging special viewing of previous ACS webinars on topics of interest such as one given by Dr. Charlie Bamforth on the Chemistry of Brewing. The club also hosts an annual research panel where members discuss the ins and outs of doing undergraduate research in a faculty lab. Finally, the group sends many members to the annual Northern California Undergraduate Research Symposium each year. The group is already looking forward to participating in oral and poster sessions at the 2017 event slated for late spring at SJSU. Of course, it wouldn't be a student club if you didn't also have social events - in the past the group has done Pi Day socials on March 14th, Valentines Day parties, Thanksgiving turkey sandwich parties, ice cream socials and, of course, pizza parties! This year, the club celebrates its 24th consecutive Student Member Chapter Award from the American Chemical Society! As the faculty advisor to the group for over 25 years, I have to say that I am pretty proud of these students!

Thanks to all of our student members as well as their faculty advisors and departmental sponsors for their hard work and enthusiasm each year in support of chemistry! The spotlight of this Councilor on Campus Report this year was on the students at four of our 4-year universities. The next Councilor on Campus Report will focus on activities at some of the community colleges in our section!

Chemistry Quiz

One of the essential minerals in the human body is sodium chloride. How much sodium chloride is in the average adult human body?

Last Month's Quiz

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

Gunpowder, also known as black powder

Flavors of Chemistry – Wine and Cheese

By George Lechner, Councilor

Once again at UC Davis on Saturday, October 1, members from four, count them, ACS local sections—Santa Clara Valley, Sacramento, California, and Sierra Nevada, were treated to a delightful presentation on the flavor chemistries of wine and cheeses. Moshe Rosenberg, Professor and Specialist in Dairy Engineering and Technology, gave a fascinating talk on why cheeses taste and smell differently, where they come from and how they get to your dinner table. Andrew Waterhouse, Professor of Enology in the Department of Viticulture and Enology, spoke about wine chemistry and the wonderful aromas that emanate from their bottle tops. And then came the glasses into which a fine selection four wines were poured.

Crackers and water were served to “cleanse the palate.” With each wine, a sample plate of a different cheese came by and we all tasted the cheese with wine. One of the cheeses was Krauterschatz Austrian Cheese by Alma. The word Krauterschatz is German for “herbal treasure.” This “dairy treasure” from Austria is a raw cow’s milk cheese from Alma Dairies whose rind is coated with a mélange of eight dried, organic herbs native to the Austrian Alps. One of the wines, Nobles Rives Cave de Tain, came from the Crozes-Hermitage wine region in France. The syrah grapes used in this wine create a cuvee with a deep, garnet color and a flavor that is balanced in sweetness and tannins. Notes of dark berries predominate with hints of spices and cured meat. Ahhhh!

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 at a local spot, somewhat convenient to the 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 August

Dr. Vinothini Balasubramanian	Patrick Homyak	Dr. Dipak Mainali
Dr. Timothy Ray Blake	Dennis Hu	Dr. Yogita Pareek
Dr. Gary Brandt	Amber L. Janda	Dr. Amanda Pitts
Madison Cherpas	Dr. Robert Mark Jones	Saemi Poelma
Darren Bruce Dressen	Dr. Shilpa Joshi	Nikkie Belindar Singh
Whitney Francis	Aaron Kempema	Dr. Wenjing Wang
Dr. Stefanie Gangano	Esther Ki	Dr. Xin Zhao
Alan Gelber	Dr. Yukako Komaki	
Andrea Claire Greene	Miles Andrew Martin Kool	

New Members for September

Hilario L. Avena	Professor John C. Goeltz	Dr. Thomas J. Pacansky
Thomas A. Bedell	Lisa Gong	Emelia Padilla
Quinn Best	Lauren Hernandez	Professor Trevor J. Rainey
Dr. Yashodhan Bhawe	Dr. Yasuyuki Hikita	Kathryn Ribay
Dr. Jacob Walter Goldstein Bloom	Wesley Hong	Dr. Joshua Salafsky
Dr. Steven Craig Bobzin	David Iaea	Thomas More Sexton
William Braff	Dr. Michael A. Ischay	Huong Q. Tran
Lily Chen	Wanmei Kuang	Ziqiang Wang
Leandra Forte	Dr. Helena Landin	Junnian Wei
W Patrick Gallagher	Dr. Andres Montoya Castillo	Jia Yun (Jeanny) Yao
Catherine Elizabeth Garrison	Dr. Shahul H. Nilar	

Such is life!

I learned that cheeses go pretty well with wine(s) almost anytime and that Gouda Cheese is pronounced “gowda”. It always seems to be gooey, so I call it “gooda”.

Dr. Paul Jagodzinski, District VI Director of ACS, gave us a brief talk about District VI and what he is doing to serve us and the ACS.

In addition, the Sacramento Section honored its 50- and 60-year members of ACS.

There were about 120 in attendance and we all had a wonderful time sipping wine, tasting cheeses and co-mingling with other chemists. I look forward to next year’s gathering.

Chemical Safety

By George Lechner, Councilor

One of the things I do as a Councilor is participate as a member of the ACS Council’s Committee on Chemical Safety (CCS). At each ACS National Meeting, the committee meets to discuss and develop guidance for the chemical enterprise on developing a culture of safety where chemicals are used, manufactured, tested, and researched in industry and in education. In recent years, there have been a number of accidents involving chemicals that have seriously injured and caused death for many students, educators and chemical workers here in the US and elsewhere. We all try to work safely with chemicals but sometimes they get away from us. CCS has made great progress in the last several years in promoting safety with chemicals and chemical processes. We have been encouraging a more safety-minded approach to teaching chemistry to students at all levels and providing guidance for teachers, professors, students, academic institution administrators and officials. My focus here is to inform you about many of the guidance documents CCS has produced in an effort to promote a safe environment to work in and to learn about chemistry in schools, colleges and universities. Click on the links below to see a few of the publications:

[*Creating Safety Cultures in Academic Institutions*](#)

[*Guidelines for Chemical Laboratory Safety in Secondary Schools*](#)

[*Guidelines for Chemical Laboratory Safety in Academic Institutions*](#)

[*Hazard Assessment in Research Laboratories*](#)

[*Safety Alert – Tornado Experiment \(AKA Rainbow Experiment\)*](#)

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Chemical Safety, continued from previous page

Safety in the Elementary School Science Classroom

Chemical Safety for Teachers and Their Supervisors

Student Laboratory Code of Conduct for

Secondary Science Program

Safety Data Sheets: Information that Could Save Your Life

To request a copy of any of these documents, please contact safety@acs.org.

What's Brewing with the YCC and the Senior Chemists?



Head brewer Seth Hendrickson will provide a tour, discussion, and Q&A on the brewing process.



Tuesday, November 15 from 6-8 pm
\$20 registration includes a flight of 6 beers and a dinner voucher for on-site food trucks.

Golden State Brewery Tour

Open to all, but especially the YCC (Younger Chemists) and Senior Chemists!!

- Date:** Tuesday, November 15, 2016
Time: 6:00 Brewery tour and talk
7:00 Tasting and light dinner
Speaker: Seth Hendrickson, head brewer
Location: Golden State Brewery
1252 Memorex Drive
Santa Clara, CA 95050
<http://goldenstate.beer>
Cost: \$20.00 Regular
\$10 Students
(Must be 21 years old to attend!)
\$10 ACS 50 year members
(thanks to a grant from the Senior Chemists Committee!)
Special food trucks will be on site for dinner.
- Reservations:** www.scvacs.org
Dr. Matt Greaney greaney19@gmail.com
or: 510-410-0195
- Reservations should be made by November 13th stating your name, address, company/school affiliation, number of people in party. Visit www.scvacs.org for more information. You must be 21 years old to attend!

CHEMPLOYMENT ABSTRACTS NOVEMBER 2016

CHEMPLOYMENT ABSTRACT 3995

Position Title: Organic Chemistry II Instructor

Job Description: Instructor for second semester of Organic Chemistry lecture and laboratory.

Lecture: MWF 1:00-1:50 pm

Labs: M 2-5pm, M 6-9pm, and W 8-10:50am (with some flexibility in scheduling the labs)

QUALIFICATIONS DESIRED:

Education: Ph.D. preferred, Master's required. Chemistry or related field.

Experience: Master's Degree with college-level teaching experience required. Ph.D. with college teaching experience welcomed.

LOCATION, SALARY, EMPLOYER:

Job Location: Belmont, CA

Salary: DOE

Description: NDNU is committed to providing an educational environment that supports a diverse student population, in particular, first-generation college students, Hispanic students, as well as students from low-income or under-prepared backgrounds.

Application Instructions: Please send cover letter and CV to: Melissa McAlexander, Ph.D., mmcalexander@ndnu.edu. In your cover letter, please include information about your experiences in working in a diverse environment, and what qualities you would bring to supporting this commitment to inclusive excellence at NDNU.

CHEMPLOYMENT ABSTRACT 3996

Position Title: Chemistry Consultant

Job Description: This consultation position involves setting up special chemistry apparatus and equipment, running organic chemistry experiments using the equipment, using outsourced analytical instruments to characterize the products, and analyzing the data.

QUALIFICATIONS DESIRED:

Education: PhD in organic chemistry or Masters (with extensive experience in wet labs)

Experience: Work with thermal/pressure systems at lab/pilot scale

LOCATION, SALARY, EMPLOYER:

Job Location: BioCube, San Jose, CA

Salary: Competitive hourly/monthly consultation offer (varies depending on experience) and the potential to turn into full-time employment in early 2017

Description: Startup company BioCollection Inc. See website - www.BioCollection.com

Application Instructions: Send cover letter and resume to jeanny@biocollection.com

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SANTA CLARA VALLEY SECTION
AMERICAN CHEMICAL SOCIETY
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SANTA CLARA VALLEY SECTION

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ChemPloyment Abstracts

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

- Nov 5** *Discovery Day at AT&T Park*
- Nov 10-11** *Pressure Sensitive Adhesive Fundamentals*
(Short Course)
Sponsored by Golden Gate Polymer Forum
Michael's at Shoreline
- Nov 15** What's Brewing with the ACS YCC and the
Senior Chemists?
Golden State Brewery
Santa Clara, CA
- Nov 17** SCVACS Presentation of the Community
College Teacher Scholar Award
San Jose City College
More information at www.scvacs.org
- Nov 30** SCVACS Silicon Valley U.S. Patent and
Trademark Office Tour
San Jose City Hall
More information in this newsletter
- Nov 30** What Makes Owls So Special?
Stanford University, Cubberley Auditorium
<http://events.stanford.edu/events/631/63117/>

Click on links for more information or
see this newsletter at http://scvacs.org/?page_id=99