

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 39 No. 2

FEBRUARY 2017 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, February 9, 2017, at 7 a.m.

La Boulange

151 University Avenue, Palo Alto

SCVACS March Dinner Seminar

Historical Pigments: The Good, the Bad and the Ugly

Curtis W. Frank and Sara Loesch Frank

Department of Chemical Engineering, Stanford University

Abstract

For the past ten years, we have been teaching a regular quarter-long Introductory Sophomore Seminar entitled "Art, Chemistry and Madness: The Science of Art Materials" that uses art materials and objects of cultural heritage as a venue for introducing concepts of chemistry and materials science. More recently, we have developed an intensive three-week long version of the same course material in the Stanford Sophomore College course entitled "An Exploration of Art Materials: The Intersection of Art and Science." In this short presentation, we will present the organizational philosophy and some of the highlights of the lectures presented by Curt and of the hands-on studio art activities taught by Sara.

Biography

Curt Frank was trained in chemical engineering (BChemEng, University of Minnesota, 1967; MS, University of Illinois, 1969; PhD, University of Illinois,



1972) and then worked as a Member of Technical Staff at Sandia National Laboratories in Albuquerque, NM, 1972-1976, where he was first exposed to polymer science and engineering. In July 1976, when the tall ships were in the San Francisco Bay, Curt and his new wife Sara moved to Stanford, where Curt had been appointed as an Associate Professor of Chemical Engineering. Curt was promoted

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March Dinner Seminar

Date: Thursday, March 23, 2017

6:00 p.m. Social Hour

7:00 p.m. Dinner

8:00 p.m. Presentation

Speaker: Curtis W. Frank and Sara Loesch Frank
Department of Chemical Engineering, Stanford University
Historical Pigments: The Good, the Bad and the Ugly

Location: Michael's at Shoreline Park
Mountain View, CA

<http://michaelsatshoreline.com/>

Cost: \$30/person
\$15/student

Registration: <http://scvacs.org/>
Reservations should be made by March 16th with each attendee's name, email, phone, and company/school affiliation. Watch the web site for more information. If you are unable to honor your reservation, please cancel by Monday, March 20th.

Chair's Message

Todd Eberspacher



Big Data. This means different things to different people. Not long ago there was a Big Data Conference at Stanford. I dropped in to say hello to a few people I knew would be there, but I didn't say that I had my own Big Data problem which didn't involve petabytes of backed up files. I'd been out of town for two days, and was suffering from data overload with unread emails, voicemails and real mail piled up.

Email is particularly bad, most voicemail gets ignored, and the real mail except the odd bill gets deferred. I think most of us have experienced this.

A few news items I found of interest are directly related to the SCVACS section. First, I'd like to jump to one nugget I was quite happy to see among the unread issues of CEN. Specifically, our immediate

continued on next page

Historical Pigments, continued from front page

to Professor of Chemical Engineering in 1985 and received the W.M. Keck, Sr. Chair in Engineering in 1994. In that same year, he co-founded the Center on Polymer Interfaces and Macromolecular Assemblies (CPIMA), an NSF-sponsored Materials Research Science and Engineering Center, which he directed until it closed in 2010. CPIMA initially included participants from Stanford, IBM Almaden Research Center and UC Davis; it was later expanded to include UC Berkeley. Curt was Chair of Chemical Engineering 2001-2006 and was Senior Associate Dean for Faculty and Academic Affairs in the School of Engineering 2009-2015. His research interests are in soft materials and have recently included studies of thin films and interfaces, interpenetrating network hydrogels, phospholipid assemblies, biodegradable polymers and ion transport in fuel cell membranes. Curt's group has published around 330 journal articles and has produced 71 PhDs. In addition, he and Sara have taught an Introductory Sophomore Seminar

on "Art, Chemistry and Madness: the Science of Art Materials" since 2007. They have also taught this material as an intensive three-week Sophomore College class "An Exploration of Art Materials: The Intersection of Art and Science" since 2014. Curt is a member of the National Academy of Engineering.

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Sara Loesch-Frank

is a calligrapher and art teacher who combines multi-media painting with a broad range of letterforms. She received her Bachelor and Master of Arts in Art Education from the University of New Mexico and has done additional graduate work at the San Francisco Academy of Art. She has participated in 13 International Calligraphy Conferences, and her art work has been featured in several Bay Area locations, including Filoli Gardens exhibits held in 2005, 2007, 2009



and 2011; Museum of Art and History in Santa Cruz in 2008; Mohr Gallery in Mountain View in 2009; San Jose Institute of Contemporary Art; and The Triton Museum of Santa Clara. She was chosen as Distinguished Fine Artist of the Year for Cupertino in 1997; juried into the international exhibit Writing Beyond Words in Connecticut and the National Cathedral Exhibition in Washington DC in 1999; included in the textbook Art and Craft of Hand Lettering in 2004; selected as the opening speaker for the Smithsonian exhibit of The Graceful Envelope at the National Steinbeck Center in 2005; juried into the international magazine Letter Arts Review in 2006; and invited to show her artwork in Qufu and Chengde, China in 2006. For 35 years, she has been teaching calligraphy and art in Bay Area adult education programs. She currently team-teaches a Stanford Introductory Seminar "Art, Chemistry and Madness: The Science of Art Materials" with her chemical engineer husband.

Chair's Message, continued from front page

past chair Jane Frommer was the recipient of the ACS Award in Industrial Chemistry. "I am motivated by questioning the obvious and probing the nonobvious." is a phrase from Jane's comment on the award that caught my eye.

Next, I noted that long-time Section members Howard and Sally Peters would be in Modesto giving their talk on Chocolate. This is a fun talk that sneaks in a little chemistry to a usually non-chemistry audience. I've heard an unconfirmed rumor that Howard and Sally gave their talk at a small chocolate company in Hershey, PA, and used local (to California) chocolates as examples. We should really get to the bottom of this...

I also spotted former Stanford student Neal Devaraj, who had won not one but two awards. Neal and I worked in the same Stanford labs during his PhD. Stanford faculty members John Brauman and Zhenan Bao also received awards.

I think our section is quite well represented among the big data pile-up. My apologies if I missed anyone, and congratulations to everyone for being in the news.

Our local section has a lot of activities coming up in the near future. Matt Greaney is working hard to have an active YCC (Younger Chemists Committee) chapter locally. Coming later this year will be a beer brewing contest -- watch here for details -- and a YCC

event co-hosted with the Cal Section billed as "An Evening with a Nobel Laureate" featuring W. E. Moerner as the speaker. We have the February dinner meeting with Stefan Koenig talking about efforts to make medicines more sustainably and a dinner meeting in March, featuring Curt and Sara Frank from Stanford giving a talk on Historical Pigments. The Monterey Bay ACS subsection will host a dinner meeting on March 10 on the topic of soil chemistry, of particular relevance in that agriculture-rich area. Visit www.scvacs.org for the time and place. The dinner meeting calendar for the rest of the year is taking shape now and there are many outreach activities underway, from Teach the Teachers to the Chemistry Olympiad. And let's not forget that our section is a host section for the National Meeting in San Francisco in April.

I might say that our section has another form of Data Overload. We have many events and just as many talented and dedicated volunteers who make the section activities run. If you are interested in participating, contact anyone on the executive committee. There are lots of opportunities associated with the National Meeting: There is a local section booth that needs to be staffed, a hospitality suite hosted by the local section, volunteer positions to help with meeting logistics, and more. Jane has done a great job getting new people

involved and I want to continue the tradition that she started. I hope to see you at an event in the near future.

Golden Gate Polymer Forum Symposium on Polymer Characterization

March 13 - 14, 2017

Michaels at Shoreline

2960 N Shoreline Boulevard, Mountain View, CA

Academic and industry experts will describe basic principles and the latest applications, including thermal analysis, rheology, light scattering and spectroscopic methods. The symposium concludes with case studies where multiple techniques are used to solve real problems involving thermoplastic and thermoset polymer systems. Several exhibitors will show the latest analytical instrumentation for material characterization and discuss problem solving.

For more information and to register visit www.ggpf.org.

Contact: Bruce Prime

E-mail: rbprime@sbcglobal.net



GOLDEN GATE POLYMER FORUM

Call for Nominations - 2017 Shirley B. Radding Award

First awarded in 1994 to its namesake, the Shirley B. Radding Award annually honors someone who has been a member of the ACS for at least 20 years. Nominees must have demonstrated dedicated, unselfish leadership, service and significant contributions over a sus-

tained period of time to industrial, applied or academic chemistry and to the ACS through elected or appointed positions at local, district and national levels.

Award Criteria

- Member of the American Chemical Society

- for more than twenty (20) years.
- Demonstrated dedicated and unselfish service to ACS and its members over a sustained period of time.
- Provided leadership through elected and appointed ACS positions at local, district and national levels.
- Made significant contributions to industrial, applied or academic chemistry.

The award consists of an honorarium of \$1,000 and a suitably inscribed memento. Nominations must consist of at least one letter of nomination stating how the nominee's work relates to all aspects of the award. It is strongly recommended that seconding letters accompany the nomination.

Nominations are due on or before May 1, 2017, and may be sent electronically to Radding-Award@scvacs.org or be mailed to: Radding Award Committee, Santa Clara Valley Section ACS, Post Office Box 395, Palo Alto, CA 94302

Local Science Fairs in 2017

by Susan Oldham-Fritts

While chocolate and flowers are high on many people's Valentine's Day list, how about a gift that keeps on giving? 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' interest in STEM: science, technology, engineering, and mathematics). Sign up as either a category awards judge for one of the following science fairs, or join our SCV-ACS sponsored special award judging team at the Synopsys Championship, which is the qualifier for ISEF (International Science and Engineering Fair). Please contact Susan Oldham-Fritts, sfritts@garlic.com, by March 1 for inclusion in the latter.

No matter which fair includes your home town, please volunteer now!

Sciencepalooza* February 4 Santa Clara County Fair Grounds, San Jose
www.outreach-foundation.org/judges.html

*Many students at these competitions are first time science fair participants.

San Mateo County Science, Math and Technology Fair March 6 Hiller Aviation Museum
<http://www.stemfair.net>

Santa Cruz Science Fair March 11 Santa Cruz County Fairgrounds, Santa Cruz
<http://www.science.santacruz.k12.ca.us>

Monterey County Science and Engineering Fair March 11 California State University, Monterey Bay – University Center, Bldg 29 www.montereycountysciencefair.info

San Francisco Bay Area Science Fair March 29 San Francisco County Fair Building, 9th and Lincoln, Golden Gate Park <http://sfbasf.org>

Synopsys Championship March 23 San Jose Convention Center, San Jose
www.outreach-foundation.org/judges.html

REMINDER: SCVACS February Dinner Seminar

Making Medicines More Sustainably: Efforts of the Green Chemistry Institute Pharma Roundtable (GCIPR)

Dr. Stefan Koenig

Abstract

The ACS Green Chemistry Institute Pharma Roundtable (GCIPR) was founded in 2005 to bring committed pharma companies together to help the industry become more efficient and reduce its environmental footprint. The presentation will provide an introduction to the GCIPR as well as an overview of ongoing activities in making the discovery and development of medicines a more sustainable enterprise.

Biography

Stefan Koenig is Co-chair of the



American Chemical Society (ACS) Green Chemistry Institute Pharma Roundtable (GCIPR) as well as a member of the International Consortium for Innovation and Quality in Pharmaceutical Development (IQ Consortium) and ACS. He is a process chemist at Genentech, where he has contributed

to both early and late research and development projects. Stefan received his Ph.D. from Yale University and was a post-doc at the ETH Zurich prior to embarking on his career in industry.

February Dinner Seminar

Date: Wednesday, February 15, 2017

6:00 p.m. Social Hour

7:00 p.m. Dinner

8:00 p.m. Presentation

Speaker: Dr. Stefan Koenig
Co-chair of the ACS GCIPR
Making Medicines More Sustainably: Efforts of the Green Chemistry Institute Pharma Roundtable

Location: Michael's at Shoreline Park
Mountain View, CA
<http://michaelsatshoreline.com/>

Cost: \$30/person
\$15/student
Breast of Chicken with Herb Butter Sauce, or
Grilled Vegetable Brochette

Registration: <http://scvacs.org/>
Reservations should be made by February 8th with each attendee's name, email, phone, and company/school affiliation. Watch the web site for more information. If you are unable to honor your reservation, please cancel by Monday, February 13th.

Volunteers Needed for the 2017 Chemistry Olympiad

The 49th International Chemistry Olympiad will be held in Nakhon Pathom, Thailand, July 6-15. Some of the world's most talented high school chemistry students will be attending from about 70 countries. The U.S. will send a team of four outstanding students, who will be selected from a pool of 20 finalists from across the United States. If you remember, in 2013, Stephan Ting from our section admirably represented the U.S. In Moscow and, in 2015, David Wang represented the U.S. and our section in Baku, Azerbaijan! And then, Steven Liu from Monta Vista High School was one of the nation's top 20 students after attending the study camp in 2016.

The selection of the 20 finalists begins in the local sections. Chemistry students from the Santa Clara Valley will participate by taking a standardized ACS written exam to determine their placement. The first round of testing is conducted in the local high schools in March. The local section invites and encourages over 100 high schools to participate and provides the testing materials.

Our top 15 students will meet on Saturday, April 22nd, to compete in the national exams. That same weekend over 1000 students across the country will take the same written and lab exercises to determine the top 20 finalists for the U.S. This year, our students will join the students from the California section for a day of testing at Santa Clara University. Our section will host the event and provide snacks and lunch and Santa Clara University will provide the classrooms and labs. Dr. Linda Brunauer has hosted and helped with this event for several years.

Those exams are quickly sent to national ACS for grading. The top 20 students, chosen from the 1,000 participants, will then attend a weeklong study camp at the Air Force Academy in Colorado in June. The top four will then represent the U.S. in Thailand in July.

Would you like to help with the process? Encourage your local high school chemistry teachers to have their advance placement or honors students participate in the testing process. There are over 100 high schools in the valley and only about 25 schools compete. In January, each school's science department is contacted by letter and invited to compete.

Local section members are needed to register the students and proctor the exams on April 22nd at Santa Clara University.

Dr. Linda Bruneaur, our host, does all the lab prep work in advance. This is an excellent opportunity to volunteer and encourage these students to think about careers in chemistry. (fyi – Steven Liu will be back for a 2nd round!) It is also an especially good opportunity to get to meet some of your section members. No heavy chemical knowledge is required! Lunch is even provided!

Also, if someone has access to a good color printer or scanner/printer, they could help by customizing the ACS student certificates that each participant receives before the end of the school year. There are usually about 150 certificates that need to be customized.

So here are some opportunities to help your local section with the 2017 Interna-

tional Chemistry Olympiad – encourage the teachers to participate (maybe even offer to help in the classroom or to grade exams!), volunteer to be a proctor, or help print certificates. If you need more information, please contact me or another Olympiad volunteer.

Sally Peters

Chair of the Chemistry Olympiad

Committee, SCVACS

sallybrownpeters@gmail.com

650-854-4614

Dr. Tara Baney

tsbaney@gmail.com

862-246-9940

Dr. Slava Becker

sbekker@hartnell.edu

831-759-6005

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 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 SVCACS Members

Mae Alabanza

Christopher Barile

Dr. Qian Cai

Allan Chan

David Clark

Dr. Frederick Cohen

James Alexander Dean

SM Deason

Corelone Steven Delaveris

Dr. Mark Dixon

Amit Hetsron

Duane Inlow

Shyam Iyer

Dr. Jennifer A. Kozak

William Lee

Dr. Thomas Lenosky

Dr. Christian S. Lentz

Dr. Wei Li

Huiyang Winnie Liang

Dr. Timothy D. Machajewski

Dr. Suresh K. Manthathi

John Daniel Merritt

Connor Morgan

Dr. Craig James Mossman

Heddie Nichols

Dr. Garry Philip Nolan

Andrew Prantner

Dr. Naga Ravikanth Putrevu

Dr. Yosup Rew

Pamela Schleissner

Frank Streller

Dr. John Tellis

Charles Titus

Marie Whittle

Dr. Frank Winterroth

Di Wu

Yina Xie

Qiang Zheng

CHEMPLOYMENT ABSTRACT 3997

Position Title: Process Chemist

Job Description: The position involves chemical production under standard operating procedures (SOP), hands-on synthesis of organic, inorganic and/or organometallic compounds for the production of advanced functional materials, cleaning glassware, cleaning equipment and final product delivery. Tasks include: synthesis, purification and identification of important molecular precursors, product molecules, functional material precursors and other tasks to be assigned. Glovebox and/or Schlenk line techniques will be used to prepare, purify, characterize and manipulate products and key components of the Company chemical technology. Candidate will learn and follow all Company SOPs, organize characterization data/procedures, maintain syntheses products and clean/maintain equipment and work environment. Experience with SOP production chemistry, product characterization, comparison to quality control standards will be required. Candidate must be detail oriented, ready to work in a clean environment and on a production schedule time table.

QUALIFICATIONS DESIRED:

Education: BS, BA or MS in chemistry.

Experience: SOP Production and scale-up experience is required. 2+ years industrial experience in multi-step SOP chemical synthesis is required. Candidate must have industrial organic synthesis experience including air-free manipulation and storage (i.e., Schlenk line equipment and inert atmosphere glovebox). Candidate must be independent and experienced in setting up and maintaining required laboratory equipment for daily operations.

LOCATION, SALARY, EMPLOYER:

Job Location: AllAccem, Inc., San Carlos, CA

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

Description: AllAccem, Inc. Commercial-stage company www.allaccem.com

Application Instructions: Send cover letter and resume to careers@allaccem.com

CHEMPLOYMENT ABSTRACT 3998

Position Title: Scientist – Natural Products and Analytical Chemistry

Job Description: We are seeking an experienced natural products/analytical chemist to help build screening libraries and to characterize active molecules from natural sources. This scientist will coordinate the screening of compounds and extracts targeting enzymes involved in biological energy metabolism.

Responsibilities: Create screening libraries of purified natural products and crude extracts. Isolate bioactive natural products leads by bioassay-guided fractionation. Elucidate structures of unknown molecules using spectroscopic and chemical methods. Identify sources of additional chemical diversity around isolated lead structures. Isolate compounds from microgram to multigram scale. Format instrumentation and design work processes to achieve above responsibilities

QUALIFICATIONS DESIRED:

Education: Ph.D. in natural products chemistry, organic chemistry, or analytical chemistry 5 years Life Sciences industry experience. Legally documented to work within the United States
Experience: Expertise in the isolation and analysis of small molecules. Experience in Metabolomics a plus. Expertise in the separation of complex mixtures. Strong chromatography, HPLC, LC-MS skills using a diverse array of LC bonded phases and MS detection modes. Expertise in the identification of unknowns. Strong spectroscopy, MS, and NMR skills for structure determination of unknown organic molecules. Experience in designing work processes for the high throughput analysis of mixtures. Experience with interfacing detectors and chromatography instrumentation. Broad knowledge and understanding of molecular diversity from natural and synthetic sources. Strong multitasking skills. Comfortable working in a highly dynamic environment. Ability to work independently and in multidisciplinary teams.

LOCATION, SALARY, EMPLOYER:

Job Location: Edison Pharmaceuticals, Inc. Mountain View, CA

Salary: Commensurate with experience

Description: Edison Pharmaceuticals is building the world's leading biological energy company focused on redox biochemistry. We are creating libraries of redox cofactors derived from natural sources for applications across the Life Sciences sector. <http://edisonpharma.com>

Application Instructions: To be considered for this position please email your resume along with three potential references to careers@edisonpharma.com. Please include the job title in the subject line.

CHEMPLOYMENT ABSTRACT 3999

Position Title: Laboratory Director (Analytical/Food Chemistry) at Labdoor

Job Description: As Laboratory Director for Labdoor, you will manage the day-to-day operations of our laboratory, coordinating efforts to achieve accurate, reliable, and timely testing services. Key priorities: Implement, maintain, and manage a comprehensive Quality Management System (QMS), including deployment of all quality assurance processes and methods to ensure the validity, quality, integrity, reproducibility, and traceability of data in our research laboratory. Manage laboratory technicians, inventory, documentation, and instrumentation maintenance and usage. Maintain appropriate laboratory and personnel standards to meet and exceed certification requirements from FDA and AOAC. Perform and aid in sample analyses. A typical day could include: Conduct testing on supplements and food products.

Characterizing and quantifying compounds in complex mixtures. Troubleshooting analytical instrumentation. Managing laboratory supplies and waste. Ensuring the integrity of sample handling and the quality of outgoing data. Planning and scheduling laboratory activities to maximize throughput. Writing and editing research summaries, reports, and reviews.

QUALIFICATIONS DESIRED:

Education: Master's degree in Chemistry or Bachelor's degree in Chemistry with two (2) years or more managing a food or analytical chemistry laboratory

Experience: GLP and QA experience, sample preparation for quantitative analysis, using LC, HPLC, UPLC, LC-MS and/or CE, CE-MS, ICP-MS and/or ICP-AES for quantitation of trace elements, willingness to work in an agile team. ISO/IEC 17025 lab accreditation experience will put you ahead.

LOCATION, SALARY, EMPLOYER:

Job Location: Labdoor, South San Francisco, CA

Salary: \$75K – \$100K salary with 0.1% – 0.25% equity options

Description: Startup company Labdoor See website - Labdoor.com

Application Instructions: Apply Online at

<https://angel.co/labdoor/jobs/205277-laboratory-director-analytical-food-chemistry>

CHEMPLOYMENT ABSTRACT 4000

Position Title: Laboratory Director (Analytical/Food Chemistry) at Labdoor

Job Description: As Laboratory Technician at Labdoor, you will test products daily in our new analytical lab, preparing the core data behind Labdoor's scores.

A typical day could include:

- Conduct testing on supplements and food products.
- Characterizing and quantifying compounds in complex mixtures.
- Troubleshooting analytical instrumentation.
- Working to establish new testing capabilities for current and future materials.
- Writing research summaries, reports, and reviews.
- Presenting results to other teams.

QUALIFICATIONS DESIRED:

Education: Master's degree in Chemistry or Bachelor's degree in Chemistry with one (1) year or more working in a food or analytical chemistry laboratory

Experience: GLP and QA experience; sample preparation for quantitative analysis; using LC, HPLC, UPLC, LC-MS and/or CE, CE-MS; mastery of basic chemistry and analytical chemistry concepts such as titration, dilution, and speciation; willingness to work in an agile team.

LOCATION, SALARY, EMPLOYER:

Job Location: Labdoor, South San Francisco, CA

Salary: \$50K – \$75K salary with 0.05% – 0.1% 0.1% – 0.25% equity options

Description: Startup company Labdoor See website - Labdoor.com

Application Instructions: Apply Online at

<https://angel.co/labdoor/jobs/205276-laboratory-technician-analytical-food-chemistry>



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

2017 Section Officers

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Treasurer	Ihab Darwish	650-594-1654	darwishis@yahoo.com

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Newsletter

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ChemPloyment Abstracts

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

- Feb 14** ACS Younger Chemists
Chemistry Careers Away From the Bench
120 Latimer Hall, UC Berkeley
- Feb 15** SCVACS Dinner Seminar
Making Medicines Sustainably
Dr. Stefan Koenig
Michael's at Shoreline, Mountain View, CA
- Feb 21** ACS Younger Chemists
A Night with Professor Moerner: 2014 Nobel Laureate
San Francisco, CA, 94131
- Mar 10** Monterey Bay ACS Dinner Seminar
Dr. Husein Ajwa, professor emeritus,
UC Davis
Topic: Soil chemistry
Cal Sate Monterey Bay, University Center
- Mar 13-14** *Symposium on Polymer Characterization*
Golden Gate Polymer Forum
- Mar 23** SCVACS Dinner Seminar
Dr. Curt Frank and Sara Loesch-Frank
Historical Pigments: The Good, the Bad and the Ugly
Michael's at Shoreline, Mountain View, CA

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