

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 39 No. 3

MARCH 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, March 16, 2017, at 7 a.m.

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

Chair's Message

Todd Eberspacher



Almost everyone in the ACS will be familiar with the National ACS Meetings. These meetings are held twice a year, in the Spring and late Summer, and will have between

12,000 and 18,000 participants. This year's Spring meeting is being held in San Francisco,

REMINDER: 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 to Professor of Chemical Engineering in 1985 and received the W.M. Keck, Sr. Chair in Engineering in 1994. In that same year, he

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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
London broil with mushroom sauce, or
Grilled vegetable brochette

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.

April 2-6. The theme of the meeting is "Advanced Material Technologies, Systems, and Processes". Your local section is co-hosting the meeting along with the Cal section. There are many opportunities to participate beyond just attending the meeting. Our section together with the Cal section will be hosting a welcome booth, and our section will have a hospitality booth. Both booths need to be staffed by our local members. I want to thank Jigisha Parshva Shah who is serving as our meeting coordinator. If you are interested in participating, please contact us at excomm@scvacs.org—helping at a meeting is a great way to network and learn

continued on next page

Historical Pigments, continued from front page
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
about what the ACS offers to its members.

I hear the phrase "Chemistry is the central science" quite often at work. As chemists we likely think this is obvious; to the non-chemist this isn't so obvious. We are surrounded by chemistry but in so many ways it is overlooked. When a speaker can integrate chemistry into a talk on something that seems unrelated, chemistry can get a reputation bump. This month offers two such talks that incorporate chemistry into other areas of interest: soil science and art.

The first talk this month is on March 10. Dr. Husein Ajwa will speak at the Cal State Monterey Bay Campus, on Soil Science. This meeting is part of the ACS Monterey Bay Lecture Series and is hosted by our members in the southern part of the section. I realize traffic and work schedules can make travel difficult but I would like to encourage as many people to go as possible. The Monterey Bay events are well attended by students from the area schools.

On March 23, my Stanford colleagues Curt Frank and Sara Loesch-Frank will give a dinner meeting talk on pigments. The Franks teach the class "Art, Chemistry, and Madness: The Science of Art Materials". How can one pass up a talk titled "Historical Pigments: The Good, the Bad, and the Ugly"? Chemicals in Art! might be an alternate title. I was fortunate enough to see an earlier version of this talk and I look forward to seeing it again. Likewise, I encourage everyone to attend.

As always, I would like to encourage any-

American Chemical Society Comes to Monterey Bay

The upcoming Monterey Bay region ACS event will take place on Friday, March 10th on the campus of Cal State University, Monterey Bay and all are welcome to attend! This event will feature a lecture by Dr. Husein Ajwa, a soil chemistry specialist and a professor emeritus from UC Davis department of Plant Sciences. Dr. Ajwa will focus on the reactions of phosphorus fertilizers with soils and the impacts of chemical equilibria on plant growth and crop yield will be discussed. Possible thermodynamic reactions in soils that affect the solubilization/precipitation of added phosphorus fertilizers for crop production will also be presented. It will take place at the Student Center, located at 3116 Inter-Garrison Road in Seaside. Please see www.scvacs.org for more information, or register [here](#).

one who wants to get involved in local activities or outreach events to contact the Executive Committee (excomm@scvacs.org). If you have an idea for a speaker or an event that you would like to see happen or if you want more information about a current event, please contact the Program Committee (programming@scvacs.org). The section doesn't run without the help of a lot of people and there is always more that can be done. I hope to see you at an event soon.

Monterey Bay ACS Dinner Seminar

Date: Friday, March 10th 2017

6:00 p.m. Social Hour

7:00 p.m. Dinner

8:00 p.m. Presentation

Speaker: Dr. Husein Ajwa

Professor Emeritus UC Davis
*Chemical Equilibria in Soil
Science and Crop Production*

Location: Cal State, Monterey Bay
Student Center, West Lounge
3116 Inter-Garrison Road
Seaside, CA

Parking: Hourly parking: \$1/hour
Daily parking: \$4/day
Dispensers accept coins, bills,
Visa and Master Card.

Here to purchase a parking permit in advance.

The nearest parking is available in Lot 12

Campus and parking maps

Cost: \$20/general public \$10/student
(includes dinner and lecture)

Reservation: Register [here](#).

Please make reservations by
Wednesday, March 8th.

“Innovation and Sustainability” Mosher Award Presentation by Dr. John Warner

By Charles G. Wade

John Warner is recognized as one of the founders of Green Chemistry. Green Chemistry is a philosophy that seeks to reduce or eliminate the use of hazardous materials at the design stage of a material's process. Attendees at his talk on January 26 had the benefit of his spectacular presentation on the field, its history and its prospects. He has an informal and efficient, often self-effacing style and an impressive string of accomplishments and awards (see the December SCVACS newsletter for a bio). The thrusts of his presentation were on his activities in Green Chemistry and on his efforts to change the curricula in chemistry departments to include mechanisms of toxicity and environmental harm.

The talk was structured around his chemistry career beginning with his lack of interest in the topic until he volunteered for an undergraduate research position. This ultimately led to a Ph.D. from Princeton and a successful career in synthesis at Polaroid. A personal tragedy, a birth defect which killed his two year old son, resulted in a dramatic change in the direction of his work.

Distraught over whether some of the chemicals he made and used may have led to the defect, he searched for answers. He finally realized that he didn't have the tools to answer the questions he was raising because neither he nor any other trained chemist of that time had been taught the mechanisms of toxicity. To paraphrase his reasoning: “why do we use toxic solvents, high temperatures and high pressure to make compounds which are toxic...no chemist would knowingly make a toxic substance if they had a choice...nature makes more complicated structures at ambient conditions generally without toxic effects...we should develop alternative synthetic routes which are closer to the parameters nature uses”. Realizing that such topics should be present in all chemical education, he changed to an academic career to develop synthetic methods within the parameters of nature and to encourage the chemistry culture to include toxic mechanisms in chemical curricula.

Warner was not the first one to reflect on natural vs. industrial synthetic comparisons, but he is certainly one of the few to successfully adapt natural (Green Chemistry) methods as alternatives to current products. At UMASS Boston his group had great success finding green synthetic chemistry routes, and



2017 Mosher Award awardee John Warner (Right) and SCVACS Chair Todd Eberspacher (Left)

this resulted in his co-authorship with Paul Anastas of the textbook Green Chemistry: Theory and Practice which anchors the field. In addition, he campaigned for changes in chemical education to include the effects of toxicity and environmental harm. During this period, he required his students to make monthly presentations at local schools (his biography includes a 2004 Presidential Award for Excellence in Science Mentoring.).

Warner eventually realized he wanted to just innovate in this area, so he left academia to found the Warner-Babcock Institute, a research organization devoted to finding green chemical methods for commercializa-

tion. In addition, he heads Beyond Benign, a nonprofit corporation dedicated to promoting green chemistry education.

Warner gave several examples of Green Chemistry in pharmaceuticals, hair dyes, hair straighteners, BPA-free plastics, and paving materials (asphalt). In the example of asphalt, he developed green chemistry methods for a substitute, and then realized the synthetic scheme developed was also applicable to one possible drug for Alzheimer's patients (currently under test).

Warner gave an amazing presentation on chemistry without much emphasis on molecular structures or chemical reaction mechanisms in his slides, making his talk appealing to a particularly wide audience. Only one molecular structure was emphasized; his style is more like “this small molecule interacts with the larger molecules to bind them together”. Warner's accomplishments obviously rely on asking the right questions and on his substantial innovative skills to supply the answers. It's unfortunate that innovation cannot be taught.

Warner concluded his talk with the view that chemists were needed now more than ever, especially if they had knowledge of toxicity. This talk would be a great one for high school and college students as it captures the essentials without an extensive chemical background requirement for the audience. Several videos of Warner's presentations are in johnwarner.org and www.warnerbabcock.com.

Local Science Fairs in 2017

by Susan Oldham-Fritts

This month is your last chance to judge at one of this year's regional science fairs. While all of these fairs need category judges, **we especially need members for our SCV-ACS special awards team to judge the 100 plus chemistry projects at the Synopsys Championship. Please contact me at sfritts@garlic.com if you can join our team on March 23, 10 am to 4 pm, at the McEnery Convention Center, San Jose.**

Category judges in chemistry, botany, biology, biochemistry, chemistry, microbiology, and the behavioral/social sciences are needed at the following fairs. (So ask professionals you know in these fields to join us and judge, too.)

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, Building 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

Santa Clara Valley Community College Teacher Scholar Award Recipient Dr. Mark Zheng

by Professor Jose Cabrera, San Jose City College • Photos by SJCC student Melissa Martinez

Dr. Mark Zheng of San Jose City College Chemistry Department has been presented with the Santa Clara Valley ACS 2015 Teacher Scholar Award. The award recognizes community college faculty for their excellent teaching, extensive mentoring and encouragement of students toward academic success, exceptional contributions to the institution's chemistry department, and educational innovation, evaluation, and dissemination. This prestigious recognition was presented to Professor Zheng at a November 17, 2016 dinner award ceremony. The SJCC Division of Mathematics and Sciences hosted the event on campus, enabling many of his students and coworkers to attend.

Dr. Zheng has served as an adjunct professor with the Chemistry Department at San Jose City College since 2008. He received his B.S. in Chemistry and Economics from the University of Massachusetts Boston and his Ph.D. in Chemistry from Rensselaer Polytechnic Institute where he was trained in organic and inorganic synthesis, polymer synthesis, ion exchange, and ion transport phenomena. At San Jose City College, Professor Zheng found like-minded peers in the Chemistry Department who share his passion to teach and empower students to succeed. Along the way, he was introduced to Peer-Led Team Learning (PLTL) by his colleagues and has been an active proponent of PLTL where peer leaders, trained by faculty and senior peer leaders, complement classroom instruction with study strategy and life lessons outside the classroom in a comfortable peer environment.

Prior to teaching at SJCC, Mark worked on and developed technologies and products for lithium-ion batteries and ion-exchange

membranes as a research scientist in projects funded by NASA and the US Army. He was an active volunteer at Stanford Hospital, averaging over 500 hours annually, and was named the hospital's Volunteer of the Year in 2012. Mark also served many years on Stanford University Medical Center Auxiliary's Board as its director and officer. In his spare time, Mark enjoys cycling, tennis, volleyball, and volunteering.

Mark has pursued research interests in greener methods for water purification and the use of electro dialysis metathesis for the production of food and pharmaceutical products. In 2015, Mark joined Cenbold Technologies, a US-China joint-venture company based in Shenzhen, China, as its CEO to develop technologies and products for water purification, desalination,



3 SJCC Awardees (L to R): Jose Cabrera, Mark Zheng, and Madeline Adamczeski



Mark Zheng Student Testimony



Mark Zheng, fellow SCJJ faculty and SCVACS Chair Jane Frommer

isolation and purification of food and pharmaceuticals.

Nominations are open for this annual SCVACS award. Contact us to honor your deserving community college teacher scholar.

Do You Know Any Middle School Teachers?

Or, perhaps you or someone you know have children that attend middle school. We are looking for volunteers to help spread the word about our Teach the Teacher's Workshop. This is a hands-on workshop created for Middle School Teachers at no cost to them. At the Workshop, several chemistry-related activities are explained and performed. In addition, a curriculum binder and all the materials needed will be provided to recreate the activities in the classroom. If you or someone you know have children who attend Middle School in our local section, and are willing to help deliver flyers for the Workshop to your child's science teacher, please contact us. Also, if you know any Middle School Teachers that might be interested in attending the Workshop, please contact Stephanie Bachmann, Teach the Teacher's Planning Committee, SCVACS at (408)429-9681 or email S_Gebling@hotmail.com.

Chemistry Quiz

How many doctoral degrees in Chemistry are awarded each year in the US?

January's Chemistry Quiz

What is the rarest naturally occurring element on the Earth's crust?

Astatine (At) is the rarest naturally occurring element, with the total amount in Earth's crust estimated to be less than one gram at any given time. It is created by the decay of naturally occurring isotopes, like 235U. All isotopes of At have a half-life under 9 hours.

CHEMEMPLOYMENT 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

CHEMEMPLOYMENT 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.

CHEMEMPLOYMENT 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>

CHEMEMPLOYMENT ABSTRACT 4000

Position Title: Laboratory Technician (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

**The American Chemical Society
comes to Monterey Bay**

Santa Cruz March 10th, 2017

**Chemical Equilibria in Soil Science
and Crop Production**

Dr. Husein Ajwa
UC Davis

Monterey **Friday, March 10th, 2017**

6:00 socializing/networking
7:00 dinner
8:00 seminar

**Open to all students,
faculty, Practitioners
and admirers of chemistry**

Location:
Cal State - Monterey Bay
Student Center - West Lounge

Registration required:
scvacs.org

For more details see page 2 of this newsletter

SANTA CLARA VALLEY SECTION

2017 Section Officers

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ChemPloyment Abstracts

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FUTURE EVENTS

- Mar 10** Monterey Bay ACS Dinner Seminar
Chemical Equilibria in Soil Science and
Crop Production
Dr. Husein Ajwa, professor emeritus,
UC Davis
Cal State 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
- Mar 29** *BioScience Forum*
Neglected Disease R&D
Eric Easom, Anacor Pharmaceuticals
- Apr 2-6** *ACS National Meeting and Exposition*
San Francisco, CA
- Apr 19** *Stanford Historical Society*
The Origins of Silicon Valley: Why and How
It Happened Here
Paul Wesling, IEEE Life Fellow

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