

Silicon Valley Chemist

Santa Clara Valley Section

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JUNE 2011 NEWSLETTER TOPICS

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Annual Family Picnic, Awards Ceremony and IYC Treasure Hunt

On July 9th, our exciting summer wine tasting, picnic, IYC (International Year of Chemistry) Treasure Hunt, and awards presentation will take place at Stanford University. The event will include wine tasting and a BBQ dinner from Armadillo Willy's.

The vintner at this year's picnic will be Kaleidos, a family-owned and operated winery and vineyard. Nestled in the Templeton Gap of the Santa Lucia Mountains in Paso Robles, owner Steve Martell's passion and focus is Rhone varietals.

Steve has hand-selected all of the Westside vineyards where he currently procures fruit. Steve's down-to-earth approach to fine wine has produced consistently rich,

full-bodied and well-balanced reds. The attention to detail can be tasted with just one memorable sip. Steve welcomes you to experience the fruit of his passion in a bottle.

This year we'll be hosting an IYC Treasure Hunt for children. We hope you'll bring out your entire family for a fun-filled day of food, wine and treasure hunting. A reservation form is below and on our section's website. Remember, this is the one meeting where you have to send a payment with your reservation. The cost this year will be: \$17 for adults, \$5 for kids 4-12, and kids under 4 are free. Reservations and payments must be received by Wednesday, July 6th.



RESERVATION FORM

Annual Family Picnic, Awards Ceremony and IYC Treasure Hunt

Stanford University – Saturday, July 9, 2011

Deadline for Reservations – Wednesday, July 6, 2010

Name(s): _____
Please list all names so we can make a name tag for every member of your family, including children.

Telephone No.: (_____) _____

No. of Reservations at \$17.00 x \$17.00 = \$ _____

No. of Children (age of 4-12) at \$5.00 x \$5.00 = \$ _____

Total Amount Enclosed \$ _____

Make check payable to: Santa Clara Valley Section – ACS

Send check and reservation form to: Karl Marhenke, 1710 Wilshire Drive, Aptos, CA 95003-2836

Please check if you can volunteer: I can help set-up I can help clean-up

Chair's Message

Spring has flown by quickly, and by the time you read this, I'll be halfway through my year as Chair of SCV-ACS. And boy do I know how I'm going to celebrate a successful half year...



with yummy barbeque! I hope you'll be attending our summer picnic—for wine tasting, honoring of our 50(+)-year members, and (drum roll please)...for the first time ever—an IYC Treasure Hunt for kids and, of course, for fun-loving adult chemists, too. So, bring your kids, your grandkids, your neighbor kids, and the big kid living inside of you. Don't forget to mail in your check and reservation this month!

Also at the picnic, we'll be collecting your pennies, nickels and dimes in support of Pennies for PUR™ Water as part of IYC 2011. So, fill your pockets with that dusty spare change on your way out the door! In

this program, local ACS sections will be raising funds to purchase water purification packets that can be used in areas of the world that do not have readily available clean and portable water. The PUR packet technology was pioneered by Procter & Gamble and the US Centers for Disease Control and Prevention, and packets are distributed globally by the Children's Safe Drinking Water (CSDW) foundation (www.csdw.org).

Don't have time to go to the picnic this year? For those of you that, like me, struggle with work-life balance, or even volunteerism-life balance—the SCV-ACS picnic is for you! You can bring your family and friends. Let them share in the fun and collegiality you have when you attend a chemistry event.

Speaking of work-life balance, I recently watched an interesting TED talk (“Riveting talks by remarkable people”, with “Ideas worth spreading” at www.TED.com) by Nigel Marsh, called “How to make work-life balance work.” This little nugget of a speech is funny and harsh and challenges the listener to

quit saying, “I'll have a life when I retire,” and to make little changes in their life now in order to have a life well-lived. And perhaps if enough of us do so, we'll collectively be able to redefine a life well-lived, not as reaching the top of the career ladder and making a lot of money—to instead—living in the moment with your loved ones. I recommend this talk! And if you've figured out a magic work-life balance that works for you, we'd love to hear about it on Facebook...search for Santa Clara Valley ACS and click on “Like” to have the discussion stream directly to you. See you on July 9th!



The INTEL ISEF

The INTEL International Science and Engineering Fair (ISEF) was held May 9-14, 2011 at the Los Angeles (CA) Convention Center. Approximately 1500 high school student finalists from around the world attended the fair where they presented their projects. The students vied for over \$4,000,000 in awards from various scientific, engineering and technology entities. It is estimated that between 25-30 % of these high school students have already or plan to file patent applications on their projects. Over 1500 judges, 3000 teachers, mentors, observers, chaperones, volunteers and parents joined the students.

The top ISEF winners of the \$75,000 Gordon Moore Award were Matthew Feddersen, 17, and Blake Marggraff, 18, of Lafayette, Calif. Their project showed that they were able to inject tiny particles of tin into a simulated tumor (the team used yeast cells as tumor stand-ins). When hit with X-rays, the tin produced secondary radiation that killed more cells than X-rays alone would.

Other Northern California awardees at ISEF2011 include:

- *New Smart Weapons : Theranostics-- A Novel*

NanoMedicine Approach to Combat Cancer
Angela Zhang, 16, Monta Vista High School, Cupertino, California

- *Investigation of Ideal Conditions to Retain Ascorbic Acid in Common Cooking Methods*
Alexander Scott Powers, 16, Bellarmine College Preparatory, San Jose, California
- *Accounting for Cross-talk between Signaling Pathways Identifies Novel Model for Early and Late Post-transplant Acute Rejection*
Andrew Liu, 17, Henry M. Gunn Senior High School, Palo Alto, California
- *Effects of Diabetes Mellitus on Vasculogenesis Capacities of Mesenchymal Stem Cells*
Shubha Srinivas Raghvendra, 17, Saint Francis High School, Mountain View, California
- *Light Curve and Orbital Analysis of Amor Asteroid 2000NF5*
Weishuang Linda Xu, 17, Lynbrook High School, San Jose, California
- *The Effect of Washout Designs in Swept and Tapered Wings on the Location of Flow Separation during Stall*
Stacey A Huang, 17, Evergreen Valley High School, San Jose, California

- *The Effects of Ocean Temperature on Aerosol Particle Absorption*
Kyra Holister Grantz, 17, The York School, Monterey, California
- *Triflorine Sensitivity in Lettuce*
Aradhana Sinha, 14, Salinas High School, Salinas, California
- *Finding Harmonics in Plasma*
Dylan Edward Moore, 17, Alameda Community Learning Center, Alameda, California
- *Ways to Enhance Cell Regeneration*
Christina Ren, 15, Monte Vista High School, Danville, California
- *Quadrocopter Aerial Monocular Vision for Improved Autonomous Robot Navigation*
Kenny Zane Lei, 16, Walnut High School, Walnut, California
- *Better Images, Fewer Samples: Optimizing Sample Distribution for Compressed Sensing in Radio Interferometry*
Clara Louisa Fannjiang, 17, Davis Senior High School, Davis, California
- *Synthesis of Complex Nanostructures for Solar Cells: Analysis Using Novel D-SCOPE*
Shyamal Buch, 15, Vista del Lago High School, Folsom, California

CANEUS Meeting

Please join the CANEUS International Organization on "Micro-Nano Technologies (MNT) for Aerospace Applications", in an educational course entitled "Nanomaterials for Aerospace and Defense: Applications, Issues, Trends and Practices" (www.caneus.org/course/materials/) to be held on June 28th, 2011, in Palo Alto, California. All SCVACS members will be offered the same benefits as CANEUS members with reduced registration fees.

The proposed unique "Industry Focused" course, offered by Dr. Sharon Smith and Dr. Steve Winzer, both former distinguished leaders at the Lockheed Martin Corporation, will be held at the Advanced Technology Center of Lockheed Martin Space Systems Company, located at 3251 Hanover Street, Palo Alto, California.

This one-day intense course is designed to help participants understand how nanomaterials are being applied to the aerospace and defense industries, what are some of the key considerations associated with introducing

these materials, what are some of the factors involved in scale-up and qualification, and what future impacts these materials may have on these sectors.

Further details regarding the course, including registration, can be found on our website at www.caneus.org/course/materials/. Additionally, the course brochure can be downloaded from: <http://www.caneus.org/main/downloads/Brochure.pdf>

CANEUS represents a first-of-its-kind approach to address the problem of transitioning new and emerging micro-nano-technologies through the infamous "Valley of Death" in which a large majority of these concepts are unable to achieve the technological maturity required for infusion into aerospace applications. CANEUS has recognized this technology gap, and has spearheaded the creation of a smoothly functioning technology development "pipeline," by bringing all of the stakeholders, namely, the inventors, system developers, end-users, and investors, under one roof. In this way, CANEUS ensures that the emerging technology is nurtured through the various stages of development.

Announcing a Golden Gate Polymer Forum Special Event

Rheology Short Course
July 13-15, 2011

Michaels at Shoreline, Mountain View
Taught by: Christopher Macosko and Randy Ewoltd, *University of Minnesota*; Gerald Fuller, *Stanford University*; Gareth McKinley, *MIT*

The Golden Gate Polymer Forum announces a three-day short course on the rheology of polymers, dispersions, and gels. It is designed to give practicing engineers and chemists an understanding of rheology fundamentals, principles of measurements, and applications to practical problem solving. We have assembled an outstanding faculty with extensive experience in teaching rheology and applying it to solving industrial problems. Students will learn optimal measurement techniques, data reduction and interpretation, and case study applications in lectures, working sessions with the instructors, and through demonstrations by instrument vendors.

Registration is now open. Full details on the web page www.GGPF.org.

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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 dinner 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 dinner 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 List for May

Dr. Gregory R. Bowman
Dr. Jason Burch
Christopher J. Chapo
Joanne Couling
Eric Gorman
Dr. Jia Guo
Dr. Roy K. Hom
Qingwu Jin
Joseph A. Kaufman
John Edward Kirkwood
Stefan G. Koenig

Lindsey Rae Lawrence
Jennifer Liscomb
Kenneth S. Matthews
Ling Meng
Dr. David A. Michels
Dr. Michael Minitti
Marie C. Noto
Dr. Mahendra C. Orilall
Dr. Sebastian Osswald
Estefania Palacios

Monica Palomo
Parul Parul
Natalie Phanstiel
Eva Susanne Pribyl
Robert J. Rosenbauer
Ishraq Sadhan
Dr. Karthik Sathiyamoorthy
Chi-Lin Tsai
Dr. James White
Dr. Zhenyu Zhang

Father's Day Brought to you by Chemistry

Every June, Father's Day seems to sneak up in the wake of Mother's Day, and families wonder what to get Dad that says, "I love you." If Dad had his way, he would likely choose sporting and electronic toys, rather than toiletries or business wear. If asked, he would probably request something fun, nothing too serious. It probably would not occur to him that the gifts he prefers are products of chemistry. But it should, since advances made in a chemist's lab have improved most popular Father's Day gifts.

Consider sports equipment. A revolutionary plastic invention, Makrolon, produced by Bayer MaterialScience, is used to make crash helmets and safety goggles. Archery bows and arrows are made of fiberglass and laminated carbon. Today's bicycles are made from carbon-reinforced fiberglass, resulting in lighter, stronger and better performing bikes. Soccer balls are abrasive and weather resistant because of polyurethane, while footballs are shaped using a special additive, produced by Akzo Nobel that makes leather exceptionally pliable.

Chemistry continues to revolutionize dad's golf balls, too. Liquid nitrogen technology from Air Liquide prevents damage during play, and a polyurethane layer increases distance off the tee and improved handling around a green.

If your Dad collects sports jerseys or autographed baseballs, he may like a display case. Much like tinted sunglasses, specialty glass, like that produced by Solutia Inc., helps reduce the affect of light on case contents, ensuring a favorite baseball card or team photograph does not fade over time.

There is chemistry in technology toys, too. Colorful consumer electronics are made possible by chemical coatings, such as PPG Industries, Inc.'s Spectracron solvent-based liquid coatings. Lithium batteries, rechargeable batteries and lightweight plastics are used in watches, iPods and MP3 players. The music and movies Dad enjoys are found on DVDs and CDs molded out of polycarbonates that offer high storage capacity.

Most dads give little thought to grooming products, but that doesn't mean that

chemists aren't looking out for them.

Choosing an aftershave offers an increasing array of choices, including products that protect men from cold weather and UV rays, and products that fight the signs of aging. The fragrance of dad's favorite product starts out in a chemist's lab, too. More than 5,000 natural and man made chemicals, including Dow's propylene glycols, are used in the fragrance industry.

Neckties are also marvels of modern chemistry. Traditional silk ties are still spun from fibers created by the caterpillars of silk moths, but those fibers have been improved by chemistry to resist creases and static, to repel water and oil, and to wear better over time. Many ties today are made from synthetic fibers that mimic the properties of natural silk. Chemists developed rayon and nylon nearly 100 years ago, and companies, like Dupont, continue to improve these specialty materials today. No matter what gets wrapped up for Father's Day, golf balls, aftershave or a necktie, it is quite likely made possible by chemistry.

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2011 Outstanding High School Chemistry Students

On April 16th, sixteen of Silicon Valley's top chemistry students met at Santa Clara University to compete in the national testing for the 2011 Chemistry Olympiad. Eighteen students from the California Section joined us for a grueling day of exams.

The students gave up a beautiful Saturday to spend 6 hours indoors working on problem sets, multiple-choice questions, and the "killer" lab problems. During the pizza lunch, 6 ACS student members from Santa Clara University circulated and talked with the high school students about college and chemistry.

This year, 20 schools and 376 students participated in the local exam, the highest number ever to qualify. The top scorers then represented our section in the national exam. Some schools gave the local exam to all of their AP or honors chemistry classes as a prelude to the AP exam. Other schools administered it only to interested students. The teachers graded the local exam. The ACS national exam, given on the 16th, is sent to National for the Olympiad committee to grade. They have 1,000 exams to grade and compare!

A special thanks to Dr. Linda Brunauer and several of her students of Santa Clara University for setting up the lab experiments, which included obtaining 17 identical voltmeters this year! Another special thanks to our section volunteers who also gave up their Saturday to proctor the exam: Steve Rosenblum, Bruce Raby, George Lechner, Howard Peters, and our section photographer, Lois Durham.

A really special thanks goes to the high school teachers who made it possible for their students to participate. They gave up personal and classroom time to communicate the program, organize the testing and grade the exams. Without them, participation is not possible! Additional schools that participated in the local exam were: Claremont High, Homestead High, Leigh High, Mercy (Belmont), Mills High, Archbishop Mitty, Palma High, Piedmont Hills High, Pinewood School, Prospect High, and York School.

Thank you everyone!

If you want to match wits with the students, go to the following website (and no peaking at the answers!) for the 2011 local

exam (the 2011 national exam is not posted yet): http://portal.acs.org/portal/PublicWebSite/education/students/high-school/olympiad/pastexams/CNBP_027038

The Santa Clara Valley outstanding high school chemistry students and their teachers are:

Bellarmino Prep – Dr. Debjani Roy
Imran Mahmood

Cupertino High – Larry DeMuth
Chelsea Voss

Fremont High – Dr. Anita Wu
Bruce Feldman

Gunn High – Heather Mellows
Yiwen Song, Coline Devine

Harker School – Dr. Mala Raghavan
Albert Wu, Ashvin Swaminathan

Los Altos High – Craig Seran
Hongyi Shi

Lynbrook High – Dr. Roy Rocklin
Alexandra Cong, John Park

Monta Vista High – Dr. Kavita Gupta
David Nam, Roy Xia

Palo Alto High – Carolina Sylvestri
Kevin Hu, Benson Chen

Saratoga High – Kathy Nakamatsu
Elaine Chou Myron Zhang

Homemade Crown for Dad on Father's Day

Description:

Treat your father like royalty with this regal homemade crown!

Materials:

- Cereal box
- Aluminum foil
- Scissors
- Glue
- Ruler
- Stapler
- Construction paper
- Glitter glue
- Buttons
- Hat
- Glue stick
- Piece of newspaper or other long paper

Directions:

1. Cut a strip of newspaper about one inch wide the whole length of the newspaper. You will use this to measure the size of your loved one's head. Take the newspaper strip and place it around the inside of one of your parent's hats. Keep one end still with your thumb and cover the band part inside all the way around. Tear off any extra paper.

This is how long your crown will need to be to fit your parent.

2. Cut the cardboard box apart into panels. Lay the two big panels next to each other with their "short sides" touching. Use your "newspaper ruler" to measure how long the crown needs to be. Trim off any extra length.
3. Cut another piece of newspaper about five inches wide, then fold it about three inches over. Continue to fold the paper into three-inch sections. When it is all folded, cut a "v" into the top of one of the "short" sides. Open the paper and see your crown pattern! Trace your pattern onto the cardboard and cut it out.
4. Carefully cover the crown with aluminum foil.
5. Cut pretend "jewels" out of construction paper and glue them on your crown. You may even want to cut out letters to spell "dad", then glue on sequins or glitter if you have them.
6. Get a grown-up to help you staple the crown together. Then present the crown...to your fabulous father.

Celebrating 100 Years of Great Chemistry in Southern California



43rd Western Regional Meeting
November 10-12, 2011
Pasadena Westin Hotel, Pasadena, CA
Sponsored by the Southern California Section

Call for Papers

On-line Abstract Submission
begins May 2, 2011
Abstracts Deadline, September 12, 2011
Advance Registration opens May 2, 2011
Please visit our website for more information
www.wrmacs.org



Highlights of the April Dinner Meeting with Dr. Charles Bamforth

Photos Courtesy of Lois Durham



Howard Peters and Ron Mills



Dr. Charles Bamforth, speaker



Charles Bamforth and Abby Kennedy



Mark Kent and Alex Madonik



Scene in brewery



Natalie McClure



Scene outside of brewery

CHEMPLOYMENT ABSTRACTS JUNE 2011

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

CHEMPLOYMENT ABSTRACT 3959

Position Title: Research Scientist – Analytical Chemistry

Job Description: We are interested in hiring a Research Scientist to support analytical tasks in Quality Control-Analytical Chemistry Department of the Biosciences Division. The position is in support of preclinical development of investigational new drugs for treatment and prevention of cancer, infectious disease, and neurological disorders. Duties may include writing technical reports, communicating results to clients, drafting or revising SOPs, and reviewing GLP or GMP data packages.

QUALIFICATIONS DESIRED:

Education: Ph.D. in pharmaceutical science, chemistry (analytical focus preferred).

Experience: Above listed education and with advanced knowledge and hands-on skills in chromatographic techniques and spectrophotometric techniques to support drug development activities.

LOCATION, SALARY, EMPLOYER:

Job Location: SRI International in Menlo Park, CA www.sri.com; SRI is an equal opportunity employer.

Salary: Based on experience

Employer: SRI International, an independent non-profit organization founded as the Stanford Research Institute in 1946, is a leader in the development of new products for the treatment and diagnosis of disease, primarily in the areas of cancer, infectious disease, neuroscience, and immunology. SRI's Biosciences Division (www.sri.com/biosciences) works in several ways, conducting basic research like an academic institution, performing drug discovery and biologic development like a biotechnology company, and carrying out preclinical development and pharmaceutical services like a contract research organization – from "Idea to IND™".

Application Instructions: To see the full description and to apply, please go to our web page www.sri.com/jobs and apply to job number 101001.

CHEMPLOYMENT ABSTRACT 3960

Position Title: Senior Scientist - Medicinal Chemistry

Job Description: The Senior Scientist will have responsibility over small molecule design in the context of multiple therapeutic programs. The individual will be responsible for the ideation of large, diverse, patentable and synthetically accessible compound solution spaces for each project. He/she will work closely with Numerate's engineering team to build and refine predictive models, manage and/or monitor the synthesis of selected compounds and insightfully respond to computational and experimental data.

QUALIFICATIONS DESIRED:

Experience:

- Extensive (10+ years) and productive experience in small molecule drug discovery, including distinguishing contributions to lead identification and optimization culminating in the advancement of candidates into development.
- Truly exceptional creative skills related to the project-specific conception and elaboration of novel compounds and libraries.
- Broad experience in programs directed against different types of drug targets.
- The ability to lead and manage programs, to multi-task and to work and communicate effectively with colleagues, partners, contractors and management.

LOCATION, SALARY, EMPLOYER:

Job Location: San Bruno, CA 94066

Salary: Based on experience

Employer: Numerate has developed a unique and powerful drug design platform that predictively and rapidly delivers and optimizes novel lead compounds. Our capabilities are applicable to essentially any small molecule drug target and we apply them to expand and advance therapeutic pipelines. We now offer a compelling opportunity for an experienced and accomplished scientist to join us and design drug candidates in a fundamentally new manner and play an important role in the growth of our company.

Application Instructions: Individuals interested in this opportunity are encouraged to submit a resume via email to chemjob@numerate.com. Numerate is an equal opportunity employer and offers attractive compensation including significant equity participation.

CHEMPLOYMENT ABSTRACT 3961

Position Title: Part-time Lecturer - Biophysical Chemistry

Job Description: Planning and teaching one section of Chemistry 150 (Biophysical Chemistry); Consulting with tenure-stream faculty regarding course content; Fulfilling all responsibilities associated with assigned courses, including Conducting all assigned class meetings and individual conferences with students; Holding at least three weekly office hours on campus; Submitting grades by the assigned deadline and in accordance with departmental policies.

Visit <http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>

QUALIFICATIONS DESIRED:

Education: Ph.D. in chemistry or biochemistry.

Experience: Prior experience teaching physical chemistry at the undergraduate level is preferred, and experience teaching at SCU is advantageous.

LOCATION, SALARY, EMPLOYER:

Job Location: Santa Clara, CA

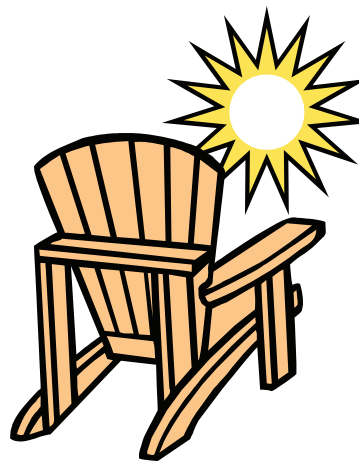
Salary: \$5,500 course

Employer: The Department of Chemistry & Biochemistry at Santa Clara University, a Jesuit, Catholic university with an ACS-approved undergraduate program. For more information, visit www.scu.edu/cas/chemistry

Application Instructions: Submit the following information to Dr. Gilbert at jjgilbert@scu.edu.

1. A curriculum vitae.
2. A statement describing applicant's experience or interest in working with people of diverse cultures and identities.
3. Copies of undergraduate and graduate transcripts.
4. Two letters of recommendation.

Happy Father's Day





SANTA CLARA VALLEY SECTION
AMERICAN CHEMICAL SOCIETY
P.O. Box 395, Palo Alto, CA 94302

Visit our web site at:



<http://www.scvacs.org>

To receive an email when our newsletter
is published on our web site, sign up at:
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SANTA CLARA VALLEY SECTION

2011 Section Officers

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Chair-Elect	Natalie McClure	650-906-7831	nmclure@drugregulatoryaffairs.com
Past Chair	Bruce Raby	408-294-6718	bruceraby@att.net
Secretary	Karl Marhenke	831-688-4959	karlmar@armory.com
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Councilors

2009-2011	Abby Kennedy	209-640-2005	akennedy@exelixis.com
2009-2011	Howard Peters	650-854-4614	peters4pa@sbcglobal.net
2009-2011	Ean Warren	650-329-4554	ewarren@scvacs.org
2010-2012	Linda Brunauer	408-554-6947	lbrunauer@scu.edu
2010-2012	Sally Peters	650-812-4994	Sally.Peters@parc.com
2010-2012	Peter Rusch	650-961-8120	pfrusch@aol.com
2011-2013	George Lechner	408-226-7262	glechner@aol.com
2011-2013	Herb Silber	408-924-4954	hbsilber@science.sjsu.edu

Alternate Councilors

2009-2011	Ihab Darwish	650-594-1654	darwishis@yahoo.com
2009-2011	David Parker	408-615-4961	dparker@santaclaraca.gov
2009-2011	Bruce Raby	408-294-6718	bruceraby@att.net
2010-2012	Lois Durham	650-322-3507	ldurham9398@sbcglobal.net
2010-2012	Natalie McClure	650-906-7831	nmclure@drugregulatoryaffairs.com
2010-2012	Stephanie Gehling	408-429-9681	s_gehling@hotmail.com
2011-2013	Mark Kent	408-736-0989	markkent@yahoo.com
2011-2013	Harry Ungar	831-708-2049	haungar@cruzio.com

Public Relations

Robert Galemmo 650-866-4702 rgalemmo@aol.com

Newsletter

Editor **Aaron Novack** 510-293-8111 aaronnovack@yahoo.com

ChemPloyment Abstracts

Director **Charles Sullivan** 650-728-7034 cdansullivan@sbcglobal.net

FUTURE MEETINGS

- Jun 18** CA Section's – Women Chemists Committee
Tour and lunch at Filoli
http://calvaryslz.org/calacs/?page_id=1357
- Jun 19-22** 85th ACS Colloid and Surface Science Symposium
McGill University, Montreal, Quebec
- Jun 21** AWIS at PARC
Careers Beyond the Bench
www.pa-awis.org/flyers/AWIS_June_2011.pdf
- Jun 21-23** 15th Annual Green Chemistry and Engineering Conference
Washington, DC
<http://acswebcontent.acs.org/gcandel>
- Jul 9** Annual Family Picnic, Awards Ceremony and IYC Treasure Hunt
Department of Chemistry
Stanford University
- Jul 18-20** Organic Microelectronics and Optoelectronics Workshop
San Francisco, CA
<http://acswebcontent.acs.org/organicmicroelectronic>