Newsletter

November 2010

# Silicon Valley Chemist

Santa Clara Valley Section — American Chemical Society

Volume 32 No. 11

NOVEMBER 2010 NEWSLETTER TOPICS



## Chair's Message

I hope you had a safe Halloween and that there were no problems in your neighborhood. The next major holiday is Thanksgiving which falls this year on November 25. Think about those things for which you are thankful.

November 15 is a big event for our Section. National ACS President Dr. Joe Francisco will be here to present the Teacher-Scholar Award to a chemistry faculty member in one of our community colleges. This will be an enjoyable and inspirational evening. Plan to attend.

January Dinner Meeting

## Mosher Award Recipient
## Plastic Solar Cell with Engineered Interfaces

**Dr. Tobin J. Marks**

***Abstract***

The ability to fabricate molecularly-tailored interfaces with nanoscale precision can selectively modulate charge transport across hard matter-soft matter interfaces, facilitating transport of the "correct charges" while blocking transport of the "incorrect charges." This interfacial tailoring can also control defect densities at such interfaces and stabilize them with respect to physical/thermal decohesion. In this lecture, challenges and opportunities are illustrated for three specific and related areas of research: 1) charge transport across hard matter-soft matter interfaces in organic electroluminescent devices, 2) charge transport across hard matter-soft matter interfaces in organic photovoltaic cells, 3) charge transport to unconventional electrodes. It will be seen that rational interface engineering along with improved bulk-heterojunction polymer structures leads to solar power conversion efficiencies as high as 5.6% - 7.3%, along with far greater cell durability.

***Biography***

The 2010 Harry and Carol Mosher award recipient is Dr. Tobin J. Marks. Dr. Marks is the Vladimir N. Ipatieff Professor of Chemistry and Professor of Materials Science and Engineering at Northwestern University. Among the themes of his research are synthetic organo-f-element and early-transition metal organometallic chemistry, polymer chemistry, materials chemistry, homogeneous and heterogeneous catalysis, molecule-based photonic materials, superconductivity, metal-organic chemical vapor deposition, and biological aspects of transition metal chemistry.

He received a B.S. degree from the University of Maryland in1966 and a Ph.D. from MIT in 1971 in Chemistry. Dr. Marks has mentored over 100 Ph.D. students and nearly as many post-doctoral fellows. He has been chair of the ACS Division of Inorganic Chemistry, and he has been active in the Chicago local section. Dr.

*continued on next page*

## January Dinner Meeting

**Date:** **Thursday, January 20, 2011**

**Time:** 6:00 Social Hour
7:00 Dinner
8:00 Presentation

**Location:** Biltmore Hotel & Suites
2151 Laurelwood Blvd.
Santa Clara, CA 95054

**Speaker:** Dr. Tobin Marks
Northwestern University
"Plastic Solar Cells with Engineered Interfaces"

**Cost:** $27.00 with a choice of:
Pork Marsala or
Eggplant Parmesan

**Reservations:** ***www.scvacs.org***
Sally Peters 650-812-4994

Reservations should be made by January 17th stating your name, address, company affiliation, number of people in party. Watch the web site for more information. If you are unable to honor your reservation and do not cancel by Wednesday, January 19th, you will be invoiced following the dinner meeting.

*Mosher Award, continued from front page*

Marks has also organized a number of conferences and symposia to help introduce the scientific community to emerging fields, and he has been an Associate Editor of the ACS journal, Organometallics.

Dr. Marks has served on the NAS-NRC International Benchmarking committee to evaluate the health of the US chemical research, and the DOE Basic Energy Grand Research Challenges Committee to help identify promising future directions for US scientific research. He will be serving as the US team leader (on behalf of ACS office of International Activities and NSF Chemistry Division) at an upcoming Chemical Sciences and Society Symposium on Sustainable materials involving the US, UK, German, Japanese and Chinese Chemical societies

Dr. Marks has received multiple awards and honors from the ACS and other organizations. We are very pleased to add the 2010 Mosher Award to this distinguished list. A few of the major ones include the ACS 2000 ACS Cotton Medal; 2001 ACS Willard Gibbs Medal; 2001 ACS Linus Pauling Medal; 2002 American Institute of Chemists Gold Medal; 2003 German Chemical Society Karl Ziegler Prize; 2004 Royal Society of Chemistry Frankland Medal, and the 2005 ACS Bailar Medal. He received the 2008 Spanish Principe de Asturias Prize for Scientific Research; the 2009 N. American Catalysis Society Pines Award; the 2009 Taylor Materials Research Award from Pennsylvania State University; the 2009 Von Hippel Award from the Materials Research Society; the 2010 ACS Nichols Medal; the 2010 Distinguished Affiliated Professor Award and Wilhelm Manchot Prize, Technical University of Munich; and the 2011 Schulich Prize from the Technion-Israel Institute of Technology.

Reminder November Dinner Meeting Reminder

## The Chemical Enterprise: Thinking and Acting Globally; 2010 Teacher-Scholar Award Presentation

**Dr. Joseph Francisco, President of American Chemical Society**

Joseph S. Francisco completed his undergraduate studies in Chemistry at the University of Texas at Austin with honors, and he received his Ph.D. in Chemical Physics at the Massachusetts Institute of Technology in 1983. Dr. Francisco spent 1983-1985 as a Research Fellow at Cambridge University in England, and following that he returned to MIT as a Provost Postdoctoral Fellow.

He has been an Assistant Professor at Wayne State University, and a Visiting Associate in Planetary Science at the California Institute of Technology. He has been a professor at Purdue University since 1986.

He served as President for the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) from 2005-2007. In 2008 he was elected into the ACS presidential cycle, and he is currently President of the American Chemical Society.

He has published over 400 peer-reviewed publications in the fields of atmospheric chemistry, chemical kinetics, quantum chemistry, laser photochemistry and spectroscopy.

Professor Francisco has received numerous national and international honors for his academic accomplish ments. He was recently awarded an Alexander von Humboldt U.S. Senior Scientist Award by the German government, as well as being appointed a Senior Visiting Fellow at the Institute of Advanced Studies at the University of Bologna, Italy. He has been appointed to and served on committees for the National Research Council, National Science Foundation, American Chemical Society, and the National Aeronautics and Space Administration.

## November Dinner Meeting

**Date:** **MONDAY, November 15, 2010**

**Time:** 6:00 Social Hour
7:00 Dinner
8:00 Presentation

**Location:** Biltmore Hotel & Suites
2151 Laurelwood Blvd.
Santa Clara, CA 95054

**Speaker:** Dr. Joseph Francisco, President, American Chemical Society
The Chemical Enterprise: Thinking and Acting Globally; Teacher-Scholar Award Presentation

**Cost:** $27.00 with a choice of:
Filet of Salmon or Pasta Primavera

**Reservations:** ***www.scvacs.org***
Sally Peters 650-812-4994

Reservations should be made by November 10th stating your name, address, company affiliation, number of people in party. Watch the web site for more information. If you are unable to honor your reservation and do not cancel by Thursday, November 11, you will be invoiced following the dinner meeting.

## About Molecule of the Week

**Get the ACS MOTW iPhone App!**

Molecule of the Week has been a popular feature on this site since 2001. Many molecules are suggested by chemists and chemistry enthusiasts. Every structure is reviewed by a scientist and displayed in 3-D and flat images with a brief description.

Each week's molecule also links to a sample record from the CAS REGISTRY, which is searched using SciFinder. Each record displays the registry number, index name and synonyms, bibliographic information, and more. Just search ACS MOTW in the App Store, its FREE!!!

# Nobel Prize in Chemistry 2010

**By Bethany Halford (C&E News)**

Nobel Laureates garner medals minted in gold, but it was work with another noble metal—palladium—that earned three chemists the big prize this year. Richard F. Heck, Ei-ichi Negishi, and Akira Suzuki were jointly awarded the 2010 Nobel Prize in Chemistry "for palladium-catalyzed cross-couplings in organic synthesis." Along with their medals, the three chemists will also share $1.5 million.

Palladium-catalyzed cross-coupling reactions, in which the metal is used to catalyze the formation of carbon-carbon bonds, are widely used to make complex molecular structures. They have been employed to make materials, pharmaceuticals, and other biologically active compounds.

"This is a very exciting day for organic chemistry," comments Stephen L. Buchwald, a chemistry professor at Massachusetts Institute of Technology. "This is a well-deserved award that is long overdue. It is hard to overestimate the importance of these processes in modern-day synthetic chemistry. They are the most used reactions by those in the pharmaceutical industry."

Although chemistry oddsmakers had been betting that Pd-catalyzed cross-coupling chemistry would earn the Nobel Prize for many years, Heck, 79, tells C&EN that his win was "totally unexpected." Retired from the University of Delaware and living in the Philippines, Heck admits that he doesn't run into chemists all that often. Nevertheless, he says, "I'm very thankful and very pleased to have received the prize."

The pioneering chemistry discovered by Heck in 1968 uses Pd to wed an aryl halide with an olefin. "It's turned out to be something of value to the chemistry community," Heck says of the reaction that bears his name.

In 1977, Negishi, who is now 75 and the Herbert C. Brown Distinguished Professor of Organic Chemistry at Purdue University, used Pd to catalyze couplings of organozinc reagents with organohalides. Two years later, Suzuki, who is 80 and currently a chemistry professor at Japan's Hokkaido University, began developing a Pd-catalyzed coupling of organoboron compounds with organohalides.

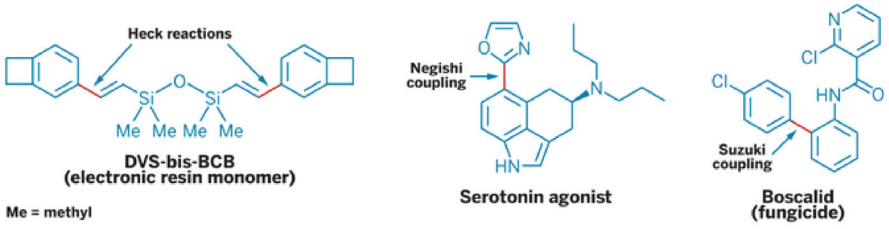
"The key word here is versatility," said Negishi, when describing his chemistry to reporters during an early-morning phone call on the day of the announcement. "One of our dreams is to be able to synthesize any organic compound of importance, whether it is a medicinally important compound or important from the point of view of materials science."

He likened Pd-catalyzed cross-couplings to the Grignard reaction, a carbon-carbon bond-forming reaction developed by Victor Grignard, the 1912 Nobel Laureate in Chemistry. "The Grignard reaction made possible the synthesis of a wide variety of organic compounds," Negishi told reporters. "We came up with a totally different method that not only complements but also surpasses in versatility Grignard chemistry."

"The award recognizes fundamental chemistry at its best," says American Chemical Society President and Purdue University professor Joseph S. Francisco. "The beauty of this work is that these cross-couplings are very robust, very clean, very versatile, and I have to say, very elegant."

"To practicing synthetic chemists in industry and academe, these names are familiar in the same way as are members of their own family," adds Victor Snieckus, a chemistry professor at Queens University, in Kingston, Ontario. "Many of us have run Heck, Negishi, and Suzuki reactions with our own hands. The whole community is overjoyed and applauds these awards."

**VERSATILITY** Heck, Negishi, and Suzuki couplings have been used to make various fine chemicals.




# Nobel Prize in Physics 2010

**By Mitch Jacoby (C&E News)**

The discovery of graphene—a one-atom-thick sheet of carbon atoms arranged in a honeycomb pattern that boasts outstanding mechanical and electronic properties—has won physicists Andre K. Geim, 51, and Konstantin S. (Kostya) Novoselov, 36, both of the University of Manchester, in England, the 2010 Nobel Prize in Physics. The researchers will share $1.5 million in prize money.

The idea that a single "freestanding" sheet of graphene—meaning a one-atom-thick film that rests on or is suspended from, but is not tightly attached to, a support—could be isolated had been investigated since the 1980s, when carbon nanotubes and buckeyballs were discovered.

Yet after years of trying unsuccessfully to separate graphite into constituent graphene sheets, researchers had concluded by the early part of this decade that freestanding graphene could not be isolated. Thermodynamics principles predicted that the material would spontaneously roll up into a nanotube or other curved structure. "At that time, graphene was considered a hypothetical or academic material," Geim told C&EN in 2009 (C&EN, March 2, 2009, page 14).

But in 2004, Geim and Novoselov, who was a postdoc at the time, worked out a surprisingly simple method for exfoliating little chips of graphite by folding adhesive tape against the crystals and peeling apart the tape repeatedly. The team showed that not only could single sheets of graphene be isolated, but they remain particularly stable at room temperature (Science 2004, 306, 666).

The discovery of that rudimentary method for isolating graphene sheets, coupled with graphene's unique collection of superlative properties, has led to an explosion in research of this "incredibly thought-provoking material," says Philip Kim, a physicist at Columbia University.

Geim points out that graphene is the

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Nobel Prize in Physics, continued from previous page

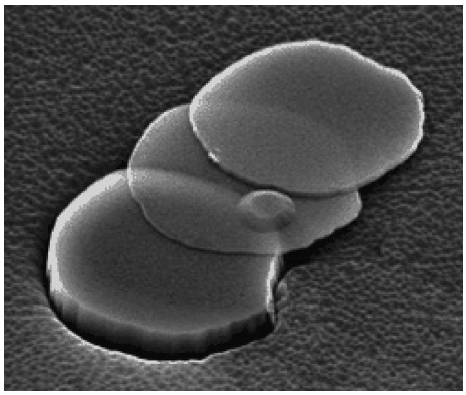
thinnest imaginable material, is exceptionally strong and stiff yet stretchable, exhibits outstanding thermal and electronic properties, and is chemically inert.

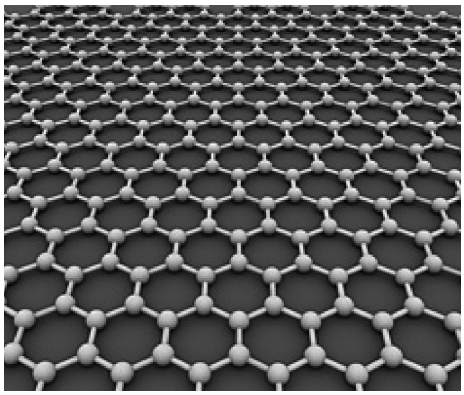
As a result of those properties, which were discovered in just the past few years, graphene has quickly become a top choice for advanced computing applications, digital displays and various types of flexible electronics, and advanced composite materials.

"Andre and Kostya's seminal work initiated this field just five or six years ago, and since then, the speed of progress in this area has been truly dazzling," Kim says. He adds that the Nobel is "very well deserved."

Geim knows that this special recognition can be a life-changing experience, but he says he hopes to "just take every day as it comes and continue working in the lab as a normal guy."

"That's rather optimistic," he acknowledges in the dry witty tone he's known for, but adds, "I'm hoping not to make too much of a fuss and to avoid going crazy."





# Next year is the International Year of Chemistry 2011

All known matter – gas, liquid and solid – is composed of the chemical elements or of compounds made from those elements. Humankind's understanding of the material nature of our world is grounded in our knowledge of chemistry. Indeed all living processes are controlled by chemical reactions. The International Union of Pure and Applied Chemistry (IUPAC) and UNESCO strongly believe that it is time to celebrate the achievements of chemistry and its contributions to the well-being of humankind.

The goals of IYC 2011 are to:

- Increase the public appreciation of chemistry in meeting world needs
- Increase interest of young people in chemistry
- Generate enthusiasm for the creative future of chemistry
- Celebrate the 100th anniversary of the Mme. Curie Nobel Prize and the 100th Anniversary of the founding of the International Association of Chemical Societies.

For more information

- Search International Year of Chemistry at ***www.acs.org***
- The official IYC website: ***www.chemistry2011.org/participate/ideas/***

# 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 -- the 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 October

Dr. Remy Angelaud
Oluwatosin M. Ayo-Vaughan
Christopher Lee Bailey
Dr. Julie D. Chittenden
Dr. Charles Terrence Cox
Dr. James Crawford
Dr. Ronald W. Davis
Matthew Delsman
Sreevalsan Divakar
Alan Downie
Dr. Matthew Eisaman
Taia V. Ergueta
Dr. Xianqi Feng
Robert Ferber
Stephanie Galanie
Jeffrey R. Gour
Zachary Hagood
Dr. Keiichi Hirano
Anna Hitz
Guosong Hong
Jasmine Kalsi
Robert K. Kuster
Vivian Lau
Bernie S. Lee
Xiaorong Liang
Darren J. Lipomi
Jeff Meier
Michael E. Mertzman
Sean O'Leary
Oliver Pabonan
Yingmei Qi
Dr. Lawrence Schein
Nandhini Sokkalingam
Dr. Yvonne Walbroehl

# Some Chocolate Happenings from July to October

**By Howard and Sally Peters**

For the past several years, Howard has been an invited speaker at the California State Summer School for Mathematics and Science (COSMOS) program at UC Santa Cruz. COSMOS is a California State education program held at 4 UC campuses each July. About 500 talented high school juniors are selected to participate in an intensive month long on-campus immersion program in science and technology. Dr. Bakthan Singaram (and Dr. Stanley Williamson) both chemistry professors at UCSC have led this important summer out-reach program for many years. On July 26, Howard spoke about Chocolate Food of the Gods to over 60 students and faculty and, afterward, everyone enjoyed delicious chocolate samples.

During the ACS national meeting in August that took place in Boston, Massachusetts, Howard and Sally had their usual SCIMIX poster session about chocolate at the Convention Center. There was also a drawing for a ten-pound bar of dark bittersweet chocolate; 900 drawing tickets were passed out in just 90 minutes!

In September, Howard traveled to Oklahoma as an ACS speaker. He was invited by Oklahoma Christian University (OCU) to visit the campus by President Mike O'Neal, where he presented talks on chocolate and invention. The next day, Howard traveled to Lawton, OK – home to the very active Army's Fort Sill and Cameron University at the invitation of 2006 ACS President Professor, Ann Nalley. The Cameron chemistry department recently received ACS approval of curriculum from the ACS Committee on Professional Training (CPT). The large international student member chemistry group at Cameron enjoyed the chocolate samples and drawing for the chocolate bar. The following day, Howard had a lively informal discussion with students about traditional and alternative careers for chemists.

If you're interested in seeing Howard's Chocolate Food of the Gods lecture, it can be viewed at ***http://tinyurl.org/chocolate***.

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# Marker Butterflies From Celebrating Chemistry

Now that the weather is due to get colder and wetter, you may find yourself indoors more often. If you have kids, you know that they need to be entertained or everyone will go stir crazy. What follows is a fun and artistic science experiment that can be done with simple household items. You can find more of these experiments on the ACS website under the Education tab.

Some artists use the way paint moves on a surface to produce interesting shapes and designs. Many artists paint on canvas, a type of fabric that is very absorbent. Before painting on canvas, most artists treat it so it does not absorb as much liquid. The artist Helen Frankenthaler did not prepare her canvas in this way. Frankenthaler used the absorbent property of canvas to create interesting shapes and patterns. To make a painting, she would tack a canvas onto the floor and pour the paint directly onto the surface. She would let the way the paint moved over the canvas help decide what the picture would be. In this activity, painting with water over marker designs on coffee filters will produce different shapes and beautiful works of art.

**Materials**

2 circular white coffee filters
1 pipe cleaner
Water-based markers (various colors)
Scrap paper (do not use newspaper)
Paintbrush
Paper towel
Cup of rinse water

**Procedure**

1. Place the coffee filters on top of a piece of scrap paper. Use several different color markers to create a design or pattern on each coffee filter. Please note that this design will be changed when the directions in Step 3 are carried out.
2. Place both coffee filters on another piece of scrap paper.
3. Dip the paintbrush in the water and paint over the designs with the wet brush. Be certain to rinse the brush in the water several times while you are painting with the water. Watch how the designs change.
4. Fold the pipe cleaner in half. Hold the pipe cleaner about 2 cm from the fold and twist two times. This will leave a small loop.
5. Scrunch one of the coffee filters along an imaginary line down the middle of the filter to produce one set of the butterfly's wings.
6. Place this filter inside the open ends of the pipe cleaner, centering it close to the twisted end.
7. Repeat Step 5 with the other coffee filter. This is the second set of the butterfly's wings. Place it above the first filter, inside the open ends of the pipe cleaner.
8. Twist the two pieces of the pipe cleaner together about 4 cm from the open end of the pipe cleaner. This will hold the two filters in place.
9. Turn down the ends of the pipe cleaner to look like antennas.
10. Thoroughly clean the work area and wash your hands.

**Where's the Chemistry?**

The filter is made of a special type of paper that absorbs water easily. Paper towels are made of a similar type of paper. The colors in the markers dissolve, or are soluble, in water. When the water is painted onto the coffee filter, the colors dissolve in the water. As the paper filter absorbs the water, the dissolved colors move with the water and create the resulting color patterns.

# Speak for Science

Less than 10 percent of the 535 members of Congress have backgrounds in science and engineering. Yet every day legislators are asked to make important decisions that affect our nation's scientific enterprise. You can help them make informed decisions by joining the ACS's Act 4 chemistry Network (formerly the Legislative Action Network).

Act 4 chemistry is a Web-based political involvement program that gives you an easy, effective way to voice opinions on legislation effecting federal research to K–12 science education.

As you may know, for decades ACS has been a respected source of information and advocacy on Capitol Hill. Often this input is provided in formal testimony before committees and panels making decisions on spending and legislation relating to science and engineering.

But just as important, members of Congress listen to their constituents and value their timely input. That's where you can play a valuable role as members of the network.

Prior to key congressional decisions, ACS staff sends e-mail alerts to Act 4 chemistry members with background information, the analysis of the potential effect an issue would have on the scientific enterprise, and ACS's position. By clicking on a Web link, participants can go directly to the ACS legislative action center where they are given background information on the topic and a proposed message that can be easily personalized and sent directly to legislators—the entire process takes only a few minutes.

It's free, simple, and done entirely via the Web. But more to the point, by participating in the Act 4 chemistry Network, chemists can impact federal policies critical to chemistry and our nation. Please register online ***http://congressweb.com/ACSlistsignup/form.cfm?list=lan]***.

If you would like more information on the network, please contact the ACS Office of Public Affairs at 1-800-227-5558, ext. 4386 or b_smith@acs.org. Participate and become your legislator's "face of science."

## CHEMPLOYMENT ABSTRACTS NOVEMBER 2010

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

### CHEMPLOYMENT ABSTRACT 3956

*Position Title:* Medicinal Chemist

*Job Description:* Highly motivated scientist member of 3-6 medicinal chemists team in a 25-person department of medium-sized pharmaceutical company. Designing target molecules, planning syntheses and executing the syntheses in collaboration with an experienced supervisor doing the same work. Requires fluency in written and spoken English, and a record of publications/presentations/patents.

QUALIFICATIONS DESIRED:

*Education:* PhD, prefer relevant post-doc experience also

*Experience:* 0-5 years in industrial drug discovery. Skilled in planning and executing synthetic organic chemistry. Knowledge of protein-small molecule interactions and/or small molecule pharmacology is a plus.

LOCATION, SALARY, EMPLOYER:

*Job Location:* South San Francisco, CA 94080

*Salary:* DOE

*Employer:* Elan is a neuroscience-based company based in Dublin, Ireland focused on developing new medicines for neurodegenerative diseases. Elan's principal research and development sites are in the United States and Ireland.

Application Instructions: Submit resumes directly to gary.probst@elan.com or lee.latimer@elan.com

### CHEMPLOYMENT ABSTRACT 3957

*Position Title:* Senior Research Associate, Small Molecule Process Chemistry

*Job Description:* Genentech is seeking a highly motivated and experienced Senior Research Associate with a proven record of laboratory achievement to join its growing Process Chemistry group. The candidate will discover, develop and demonstrate process chemistry at the laboratory and kilo-lab scale for timely delivery of early and mid-phase small molecule development candidates in the growing GNE pipeline in accordance with cGMP, ICH and FDA regulations. The individual will control the bulk quality attributes of the API conducive to successful development and formulation.

QUALIFICATIONS DESIRED:

*Education:* This position requires a Bachelor's degree in Chemistry (Master's degree preferred)

*Experience:* Candidates should have a record of innovation and success in multiple projects over the course of their industrial career. A sustained publication record is desirable. We are seeking a candidate with a strong working knowledge of the latest developments in contemporary Process Chemistry including chemo- and/or bio-catalysis/asymmetric transformations, organo-metallic chemistry as well as experience in heterocyclic chemistry.

6-12 years of industry experience.

LOCATION, SALARY, EMPLOYER:

*Job Location:* South San Francisco, CA

*Salary:* Competitive

*Employer:* For more than 30 years, Genentech has been at the forefront of the biotechnology industry, using human genetic information to develop novel medicines for serious and life-threatening diseases.

Application Instructions: To learn more about our current opportunities, please visit: http://careers.gene.com and reference Req. #1000035310. Please use "Web – SCACS" when a source is requested. Genentech is an equal opportunity employer.

# Highlights from the September 23rd Dinner Meeting

SCV Secretary Karl Marhenke and California Section Chair Paul Vartanian at the registration table

SCV Member Kristen McCaleb with her ACS Salute to Excellence Award

SCV Past Chair Natalie McClure and ACS Board of Directors Chair Bonnie Charpentier

SCV Chair Elect Abby Kennedy, California Section Councilor Lee Latimer (of Elan Pharmaceuticals) and Speaker Lynette Cegelski

Community College Teacher-Scholar Award winner for 2009 Jeanette Medina and students (L to R) Mayra Rios, Jeanette Medina, Xochitl Rios and Mayu Yamamura

The large group awaits the evening's talk

# From the October 14th Dinner Meeting

Jennifer Anastasoff of EnCorps telling us about their amazing organization

Michelle Pereira, Xochitl Rios and Nchinda Ngeche, three of the wonderful Cañada College volunteers who helped make the night memorable


Natalie McClure, Tony Freedman and Abby Kennedy talking over dinner

Toby Freedman giving her extremely interesting talk

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


**http://www.scvacs.org**

To receive an email when our newsletter is published on our web site, sign up at: http://www.scvacs.org/newsletter/

## SANTA CLARA VALLEY SECTION

### 2010 Section Officers

| | | | |
|---|---|---|---|
| Chair | **Bruce Raby** | 408-294-6718 | bruceraby@att.net |
| Chair-Elect | **Abby Kennedy** | 209-640-2005 | akennedy@exelixis.com |
| Past Chair | **Natalie McClure** | 650-906-7831 | nmcclure@drugregulatoryaffairs.com |
| Secretary | **Karl Marhenke** | 831-688-4959 | karlmar@armory.com |
| Treasurer | **Ihab Darwish** | 650-594-1654 | darwishis@yahoo.com |

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| 2008-2010 | **Herb Silber** | 408-924-4954 | hbsilber@science.sjsu.edu |
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| 2009-2011 | **Howard Peters** | 650-854-4614 | peters4pa@sbcglobal.net |
| 2009-2011 | **Ean Warren** | 650-329-4554 | ewarren@scvacs.org |
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| 2010-2012 | **Lois Durham** | 650-322-3507 | ldurham9398@sbcglobal.net |
| 2010-2012 | **Natalie McClure** | 650-906-7831 | nmcclure@drugregulatoryaffairs.com |
| 2010-2012 | **Stephanie Gehling** | 408-429-9681 | s_gehling@hotmail.com |
| 2010 | **Harry Ungar** | 831-708-2049 | haungar@cruzio.com |

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### Newsletter

| | | | |
|---|---|---|---|
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### ChemPloyment Abstracts

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

## FUTURE MEETINGS

**Nov 15** Dr. Joe Francisco, President of the American Chemical Society
Teacher-Scholar Award Presentation
Biltmore Hotel, Santa Clara, CA

**Dec 18** Professor Bruce German
Foods for Health
CA Section meeting
USDA, Albany, CA
***http://calvaryslz.org/calacs/?page_id=348***

**Dec 15-20** PacifiChem 2010
Honolulu, HI
***http://pacifichem.org***

**2011**

**Jan 9-14** 20th Winter Fluorine Conference
St. Pete Beach , FL
***http://fluorine.sites.acs.org/20thwfc.htm***

**Jan 15** Dr. Tobin Marks
Mosher Award Dinner
Biltmore Hotel, Santa Clara, CA

**Feb 11** Monthly Dinner Meeting (TBD)

**Mar 27-31** National Meeting and Exposition
Anaheim, CA