

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 31 No. 6

JUNE 2009 NEWSLETTER TOPICS

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Annual Family Picnic and Awards Ceremony

Our next Section event will be our summer picnic on Saturday, July 11. It will feature a special red wine tasting hosted by Floyd Hobbs. The afternoon will also include a catered picnic outside the Mudd chemistry building at Stanford and ceremonies honoring our 50- and 60-year members and other award winners.

50 Year Members

- | | |
|-----------------------------|--------------------------|
| <i>Robert Anderson</i> | <i>Joseph Castellano</i> |
| <i>T.Z. Chu</i> | <i>Arthur Diaz</i> |
| <i>Hubert Dubb</i> | <i>Melvin Ebeling</i> |
| <i>W. Patrick Gallagher</i> | <i>Louis Gottwald</i> |
| <i>Roy Hayter</i> | <i>Stanley Judd</i> |
| <i>Gonzalo Monarque</i> | <i>John O'Malley</i> |
| <i>Ronald Orłowski</i> | <i>David Ross</i> |
| <i>Charles Shaw</i> | <i>Lowell Yeager</i> |

60 Year Members

- | | |
|-------------------------|---------------------|
| <i>Kirtland McCaleb</i> | <i>C. Ainsworth</i> |
| <i>Joel Rossen</i> | <i>Carl Kuhlman</i> |
| <i>Chester Poetsch</i> | |

Wine Tasting:

Floyd Hobbs has offered to arrange a wine tasting. This year we will be tasting a horizontal selection of red wines.

Dinner:

Armadillo Willy's will cater the picnic, as they did last year. The tentative menu will include:

- Smoked Barbequed chicken
- Beef brisket
- BBQ beans
- Spicy coleslaw
- Corn bread muffins
- Green Salad
- Wine, beer, soda, water
- Dessert

Location:

The Stanford Chemistry Department.

Time:

- 4:30 p.m. Wine Tasting
- 5:30 p.m. Buffet BBQ Dinner
- 7:00 p.m. Awards

Directions:

From Route 101 (Bayshore Freeway):
Take University Avenue west through Palo Alto. It becomes Palm Drive on the Stanford Campus. Turn right on Roth Way and continue to the Chemistry Department.

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RESERVATION FORM

Annual Family Picnic and Awards Ceremony

Stanford University – Saturday, July 11, 2008

Deadline for Reservations – Friday, July 7, 2008

Name(s): _____

Telephone No.: (_____) _____

No. of Reservations at \$16.00 x \$16.00 = \$ _____

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

Mail check and reservation form to: Sally Peters, 228 Sand Hill Circle, Menlo Park, CA 94025

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

Annual Picnic, continued from front page

Park in the parking structure on your right. Keck and Mudd chemistry buildings are across Roth Way from the parking structure.

From Route 280: Take the Sand Hill Road exit. Drive east and turn right on Stock Farm Road. Then turn left on Campus Drive West and right on Roth Way. Park in the parking structure immediately on your left. Keck and Mudd chemistry buildings are across Roth Way from the parking structure.

Reservations:

A reservation form for this event is on the front page. You can also make reservations by accessing the Internet at our website: www.scvacs.org/Local_Folder/din_mtg.html.

Remember, this is the one meeting where you have to send a payment with your reservation. The cost will be the same as it was last year: \$16 for adults, \$5 for kids 4-12, and kids under 4 free. Reservations and payments must be received by Friday, July 7.

Chair's Message

Summer is here and it's time for our annual picnic. I hope to see you all there.

We had an excellent meeting at the Monterey Bay Aquarium Research Institute (MBARI) on May 2. Located in Moss Landing, MBARI was founded in 1987 by David Packard and it is still funded primarily from the Packard Foundation. MBARI's mission is to achieve and maintain a position as a world center for advanced research and education in ocean science and technology, and to do so through the development of better instruments, systems, and methods for scientific research in the deep waters of the ocean.

Chemical oceanographers at MBARI develop automated sensors and underwater experiments to study how the chemistry of seawater relates to biological processes and interactions with the atmosphere and the seafloor. Ken Johnson and his research



team have developed several instruments and that automatically measure concentrations of various chemicals including iron, nitrates, and silicates in seawater. They have also deployed networks of instruments in the ocean and in estuaries to under-

stand the chemistry of these areas. Another area of research being pursued by MBARI scientists is a study of methane hydrates—ice-like solids that form when methane (natural gas) combines with seawater at the low temperatures and high pressures of the deep sea.

This was a joint meeting, co-hosted by our own Santa Clara Valley Section and the California Los Padres Section. About 60 people got a tour of MBARI, including their research vessels, their labs and their novel sensor systems, and then enjoyed some appetizers and light snacks before Ken Johnson's presentation. Some of the attendees from California Los Padres drove all the way up from Santa Barbara to attend this event.

I would like to thank all the MBARI team who made this into such an interesting meeting. They include the tour guides (Kurt Buck, Judith Conner and Ginger Elrod), the researchers who presented their research on the tour (Carol Sakamoto, Ed Peltzer, George Matsumoto and Sasha Tozzi) and Annette Gough who helped pull the entire event together.

MBARI has an excellent facility, and does some fascinating research. It was marvelous that they were able to let the ACS section understand their research.

Our summer tradition is to hold our annual awards dinner and picnic in July, and then take a break from local section activities until the fall. Please come to the picnic, and then enjoy your summer!

Natalie McClure

News from the Salt Lake City Meeting

The national meeting took place two months ago and enough time has passed that the news can be distilled down to a few points. One of our duties as councilors is to report back to the section about some of the activities from the national meetings. The section had its full contingency of eight voting councilors. This included two alternate councilors, Harry Ungar and Dave Parker, who braved the cold and snow to represent the section.

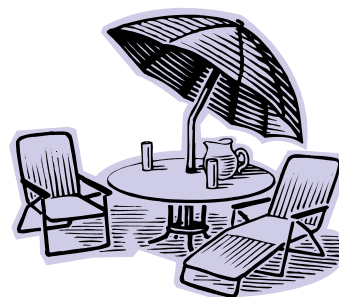
This is the first national meeting held in Salt Lake City. SLC is a compact, hospitable, mid-American city in which to hold meetings. Because of the sluggish economy there were only 9,220 regular attendees and students at the meeting. Rumor had it that a few of them were even able to get some snow boarding and skiing in between technical sessions!

The main points from the Council meeting included:

- Elections -- two women were elected by council to be candidates for ACS president in 2010 – Nancy Jackson and Cheryl Martin.
- Statistics -- at the close of 2008, Society membership totaled 154,024.

- Employment -- there was a lot of interviewing and networking going on in the Career Placement Center. 611 job interviews were conducted by 32 companies for 176 positions.
- Dues – member dues for 2010 will be \$145.
- Finances – the Society's operating performance held up well in spite of the economic challenges faced in 2008. Total revenue was approximately \$450 million, up just over 3% from 2007. The Society's Net from Operations was \$9.7 million, and \$560,000 favorable to budget.
- However in 2008 ACS was adversely impacted by the historic collapse in the capital markets, which resulted in a sharp decline in the Society's unrestricted net assets from \$212 million at December 31, 2007, to \$60 million at December 31, 2008. There were two factors driving this decrease. Both were related to the poor performance in the capital markets.

We can guarantee that it will not snow at the 238th nation meeting in Washington, DC, in August!



2009 Chemistry Olympiad Finalists

On April 25th, eighteen of the Santa Clara Valley Section's top high school chemistry students met at Santa Clara University to compete in the national testing for the 2009 International Chemistry Olympiad. Fourteen students from the California section joined us for testing, eating pizza, and more testing!

The exam that the sophomores, juniors, and seniors took consisted of three sections and lasted more than 4 ½ hours. The students gave up a beautiful Saturday to work on 90 minutes of multiple choice questions, 105 minutes of problem set questions and 90 minutes of 2 lab practical questions. The number of students who can compete in the national exam is determined by the number of members in the local section. We have 3600 members and that translates into 18 finalists.

This year there were more seniors than in the past and a lot of talk about colleges and financial aid. The students that participated in previous years felt this year's exams were more difficult than last years. At the end of the day, no one

wanted to major in chemistry!

A special thanks goes to Dr. Linda Brunauer and some of her lab assistants for making the arrangements and setting up the labs for the 32 students. Other Santa Clara students made themselves available for college type questions and led a brief tour of the campus. The Student Affiliates of Santa Clara have won numerous ACS awards under the direction of Dr. Brunauer.

Another round of thanks goes to the local section members who gave up their Saturday to proctor the exam – George Lechner, Howard and Sally Peters, Jane Frommer, and Natalie McClure. Al Verstuyft, Don McLean, Wally Yokoyama, and Bryan Balazs traveled from the East Bay with the California section students.

If you would like to match wits with the students go to the exams at:
http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_SUPERARTICLE&node_id=1508&use_sec=false&sec_url_var=region1&_uuid=b9a92eb0-973f-4681-9d4e-79-bbace469b4

Our finalists and their dedicated teachers are (drum roll please!):

Gunn High

Audry Ho, Paul Summers
Teacher: Heather Mellows

Harker School

Andrew Zhou, Kevin Xu,
Vikram Nathan
Teacher: Mala Raghavan

Hillsdale High

Praveen Ramesh
Teacher: JB Luzar

Lynbrook High

Patricia Li, Tejas Navaratna
Teacher: Roy Rocklin

Monta Vista High

Aniruddha Dasgupta, Paul Allegakoen
Teacher: Kavita Gupta

Mountain View High

Edna Cheung, Justin Bai
Teacher: Katie Thornberg

Palma High

Robert Puccinelli, Josh Delgado
Teacher: John Chipley



Silicon Valley Science and Engineering Fair The Synopsys Championship

The Synopsys Championship (our Silicon Valley Science Fair) was held March 18 at the San Jose Convention Center. Dr. Howard Peters was the sole judge for the awards for our group - the ACS Santa Clara Valley Local Section. He presented the section's special awards at the ceremony at Paramount's Great America in Santa Clara on Sunday March 29. Our thanks is again extended to Dr. Aart De Gusse and the Synopsys Outreach Foundation for their continuing generous support of our local science students and this important science outreach program.

Our American Chemical Society (ACS) special award winners were:

1st Place Award \$500.00

Neil Kumar, Saint Francis High School
The Effect of Inorganic Catalysts on Hydrogen Peroxide Decomposition

2nd Place Award \$200.00

Justin To, Oak Grove High School
Increasing the Economic Viability of Silica Aerogel through Subcritical Drying Processes

3rd Place TEAM Award total \$100.00

Jeremy Nguyen, Milpitas Christian School
Nicolas Wang, Piedmont Hill High School
Reversible Hydrogen Fuel Cell

3rd Place Award \$100.00

Rebecca Jolitz, Jolitz Home School
Melamine: Seasoning or Filler?

3rd Place Award \$100.00

Priscilla Lok, Lynbrook High School
Effect of Organic Wastes on Chelation of Chromium from Industrial Waste Waters

Several local students competed in the INTEL International Science and Engineering Fair in Reno May 12-13, 2009. For additional information regarding local 2009 winners see <http://www.outreach-foundation.org/>

Additionally, the Intel International Science and Engineering Fair (ISEF) World Class Competition, May 12-13, 2009 was held in Reno, Nevada. For more information, visit: <http://www.sciserv.org/isef/>
The INTEL ISEF 2010 will be held in San Jose, CA. Judges are needed Tuesday and

Wednesday, May 11-12, 2010. PLEASE MARK THOSE DATES. Over 1,000 JUDGES WILL BE NEEDED IN ALL CATEGORIES. For more information, visit: <http://isef2010sanjose.org/>

Finally, the California State Science Fair held was held May 18 - 19, 2009 at the California Science Center, Los Angeles. For information, visit: <http://www.usc.edu/CSSF/>. For other affiliated US Science Fairs, please see http://www.societyforscience.org/isefstudents/aff_fairsearch.asp



May 2nd Meeting at the Monterey Bay Aquarium Research Institute

Photos by Lois Durham and Jim McClure



Dr. and Mrs. George Lechner



David Nehr Korn, Melanie Billigmeier and Dr. Ken Johnson



Steve Colby, Dave Nehr Korn, guide Kurt Buck, Melanie Billigmeier and researcher Sasha Tozzi



Ed Peltzer, describing his research



Ventura ROV (Remote Operated Vessel)



Howard Peters and Judith Shelling



Natalie McClure



Dr. Johnson, Natalie McClure and John Hagen, Chair, California Los Padres Section



Carol Sakamoto, describing her project



Ken Johnson, speaker



Carol Mosher and Ean Warren



Rosalind Wong, Marjorie Balazs, Lois Durham and Carol Mosher



Guide Kurt Buck, Sandra Colby, Rosalind Wong, David Nehrkorn, Melanie Billigmeier and Barbara Cassin



Point Lobos MBARI research Vessel



Howard Peters and Ed Peltzer

Teacher-Scholar Award for Community College Chemistry Faculty

At our dinner meeting on November 19, Tom Lane, President of the ACS, will present the nation's very first "Teacher-Scholar Award for Community College Chemistry Faculty." A chemist who teaches in one of the 13 community colleges in the ACS-SCV local section area will receive the \$1000 award, with half going to their department for improvement of instruction. Other speakers are being recruited to discuss the national role that community colleges play in chemical education. In addition to regular attendees, we hope that the meeting will attract a significant number of faculty from local community colleges.

CHEMEMPLOYMENT ABSTRACTS JUNE 2009

CHEMEMPLOYMENT ABSTRACT 3937

Position Title: Senior Scientist - In Vivo Pharmacology

Job Description: The successful candidate will provide scientific, strategic leadership and hands-on technical expertise to drive compounds from discovery to proof of concept in humans. He/she will lead and manage implementation of in vivo pharmacology models for targets of interest, using translational and pharmacodynamic approaches to prioritize compounds. The applicant will provide in vivo pharmacology expertise to project teams during the discovery and development phases of small molecule drug development program.

QUALIFICATIONS DESIRED:

Education: This position requires a PhD in Biology

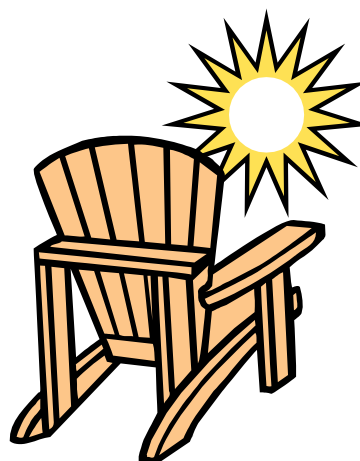
Experience: Post-doctoral experience with 5-15 years of relevant experience in a research, biotechnology, or pharmaceutical lab

LOCATION, SALARY, EMPLOYER DESCRIPTION:

Job Location: South San Francisco, CA

Employer Description: Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions

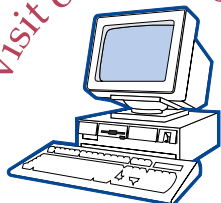
Application Instructions: Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please click here reference Req. #1000024282. Please use "Web - ChemPloyment" when a source is requested. Genentech is an Equal Opportunity Employer.





SANTA CLARA VALLEY SECTION
AMERICAN CHEMICAL SOCIETY
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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:
<http://www.scvacs.org/newsletter/>

SANTA CLARA VALLEY SECTION

2009 Section Officers

Chair	Natalie McClure	650-906-7831	nmclure@drugregulatoryaffairs.com
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Past Chair	Mark Kent	408-736-0989	markkent@yahoo.com
Secretary	Karl Marhenke	831-688-4959	karlmar@armory.com
Treasurer	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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2008-2010	Mark Kent	408-736-0989	markkent@yahoo.com
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	alanice811@att.net
2009	Lois Durham	650-322-3507	ldurham9398@sbcglobal.net
2009	Harry Ungar	831-247-4545	haungar@cruzio.com

Newsletter

Editor:	Cinzia Muzzi	408-864-5790	muzzicinzia@deanza.edu
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ChemPloyment Abstract

Director:	Charles Sullivan	650-359-0731	cdansullivan@sbcglobal.net
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FUTURE MEETINGS

- Jun 23-25** Green Chemistry and Engineering Conference
College Park, MD
<http://acswebcontent.acs.org/gcande>
- Jun 28 - Jul 1** Northwest Regional Meeting
Tacoma, WA
www.chem.plu.edu/norm2009
- Jul 6-9** Organic Microelectronics and Optoelectronics Workshop V
San Francisco, CA
<http://acswebcontent.acs.org/organicmicroelectronic/index.html>
- Jul 11** Annual Family Picnic and Awards Ceremony
Stanford University
Chemistry Department
- Aug 16-20** 238th National ACS Meeting
Washington, DC
- Sep 17** Dr. Tom O. Passell
EPRI
Developments in Cold Fusion
Biltmore Hotel, Santa Clara, CA