

Silicon Valley Chemist

Santa Clara Valley Section

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DECEMBER 2006 NEWSLETTER TOPICS

- Robert W. Parry - 2006 Harry and Carol Mosher Award Winner
- Election Result
- Chair's Message
- National Chemistry Week - It's a Wrap
- Fun with Elementary and Middle School Teachers at 11th Annual Workshop
- IISME Summer Fellowship Program
- 2006 Abraham Ottenberg Service Award Committee Report
- CHEMPLOYMENT ABSTRACTS

Election Result

Congratulations to the members elected to the SCVACS Executive Committee starting in the 2007 operating year. The next time you see them, give them a special thanks too!

Chair-Elect	TERM
Mark Kent	1 yr
Secretary	
Karl Marhenke	1 yr
Treasurer	
Herb Silber	1 yr
Councilors	
Linda Brunauer	3 yrs
George Lechner	1 yr
Sally Peters	3 yrs
Peter Rusch	3 yrs
Alternate Councilors	
Natalie McClure	3 yrs
Maureen Scharberg	3 yrs
Ferenc Makra	1 yr
Ernest Gargas	3 yrs

Robert W. Parry 2006 Harry and Carol Mosher Award Winner

The recipient of the 2006 Harry and Carol Mosher Award is Robert W. Parry, Distinguished Professor, Emeritus, University of Utah. Unfortunately, due to health considerations, Dr. Parry will not be able to attend the award ceremony. The speaker for the January meeting will be announced on the local section's website www.scvacs.org.

The Mosher award recognizes outstanding work in the field of chemistry, advancing chemistry as a profession, and service to the ACS. The award is named for the Drs. Harry Mosher, Stanford University and Carol W. Mosher, SRI, charter members and long time supporters of the Santa Clara Valley section of the ACS.

Biography

Robert W. Parry was born in Ogden, Utah in 1917. He received a Bachelor of Science degree from Utah State University in 1940, a Masters degree from Cornell University and then a PhD from the University of Illinois where he studied Werner Coordination compounds with Dr. John Bailar.

Dr. Parry joined the faculty at University of Michigan in 1946 where he spent 23 years. In 1969, he returned to Utah to join the University of Utah as Distinguished Professor of Chemistry.

Dr. Parry is internationally known as an expert on the chemistry of boron hydrides. Parry and his students have also explored the chemistry of gallium, phosphines and related materials. In addition, some of his early work on the thermodynamics of chelation laid the essential formation for modern molecular recognition and self-assembly chemistry that is now

being applied in nanotechnology application. Even as an emeritus faculty member, he has chosen to return to the laboratory and characterize some elusive carbonates, and thiocarbonates. This work has resulted in the 150th paper, submitted at the age of 89 to Inorganic Chemistry.

Dr. Parry is equally recognized for his outstanding contributions to chemical education. He has been a frequent and provocative contributor to the Journal of Chemical Education, and essentially rewrote the entire national High School chemistry curriculum (CHEM STUDY). His excellence in teaching and concern for the students resulted in the establishment of an endowed teaching award in his honor in chemistry at Utah by a distinguished parent in the local community.

Dr. Parry also has a outstanding record of service to the ACS. He was elected President of ACD in 1983 and served on the Board of Directors from 1969-1973. Bob Parry was the founding editor of Inorganic Chemistry, and has served as an associate editor of the Journal of the American Chemical Society for over a decade.

In 1993, Dr. Parry was awarded the Priestly Medal by the American Chemical Society in recognition of his extraordinary record of service and high quality research. He was also the first recipient of the ACS award for Distinguished Service in Inorganic Chemistry.

Dr. Parry embodies all the qualities valued in the Mosher award, and we are pleased to recognize him as the 2006 recipient.

Natalie McClure

Chair's Message

At the end of the year, organizations often look back and assess how their activities and accomplishments match up with the goals they set for themselves. This reflection can then be used to suggest goals for the next year.

Early this year the Executive Committee set four ambitious goals for our Santa Clara Valley Section:

- Transition our monthly newsletter, the Silicon Valley Chemist, from mailed hard copy and a web copy to web copy only. This goal was achieved with last month's edition. The savings from mailing and production costs will allow us to redirect that money to teacher training (see article on the 11th Annual Teacher's Workshop in this issue), prizes for students at science fairs, chemistry demonstrations for children (see National Chemistry week article in last month's issue), and meal subsidies for Student Affiliates who attend our monthly speakers/dinner meetings (attention students tired of eating dorm food or your own cooking). Other improvements in our first web version included high definition color photos of activities and six, rather than twelve, job postings per page – much easier to read the larger fonts.
- Move from paper to electronic balloting for local section elections. Although I voted on line today in the runoff election for national ACS president, we were not able to complete this goal this year. You will have to wait until next year to vote electronically in our local elections. The multi-step process (including section-wide voting to change our bylaws) takes longer than we anticipated. However, George Lechner (next year's Chair) has drafted the necessary bylaw changes so we can vote on them early in 2007.
- Co-host the ACS National Meeting in San Francisco with the California Section. Although the two sections have co-hosted national meetings several times before, it did not work this time. We did, however,

collaborate on the first-ever service projects held at a national ACS meeting to benefit the host city (see article and photographs in last month's newsletter and in the September 18th and 25th issues of Chemical and Engineering News). The ACS President, President-elect, immediate Past President, members of the ACS Board of Directors and senior ACS Staff participated in the four projects. We hope there will be opportunities for you to participate at next spring's meeting in Chicago.

- Have Stanford and the University of California, San Francisco designated as Historic Chemical Landmarks. We had hoped to accomplish this goal in time to make the announcement at the San Francisco national

meeting, but ran out of time and personnel. We believe this is still a worthy goal and are looking for people interested in working on the project. Contact me or others on the Executive Committee if you are interested in working on this goal.

As you can see, we accomplished some, but not all of our goals in 2006. We will continue to work on these goals and set new ones for 2007. Do you have a goal for our local section you would like to work on? Would you like to help us achieve one of the 2006 goals still in progress? Come join us and share your ideas at one of our monthly dinner meetings or Executive Committee meetings. The dates, times, and locations for both these meetings appear in our monthly newsletter. I look forward to meeting you and discussing your interests.

Dave Parker

National Chemistry Week—It's a Wrap!

In October, the Santa Clara Valley section of the ACS celebrated National Chemistry Week with the help of special guest speaker, Bruce King, of the Ecological Building Network. Bruce spoke at our celebratory dinner, Thursday, October 26 at the Mitchell Park Community Center in Palo Alto. After enjoying a nice buffet dinner complete with scrumptious chocolate fountain, our members were treated to a seminar by Bruce detailing the inside scoop on green building. Using the analogy of arm span as the span of earth's history, Bruce pointed out that if you spread your arms out straight to the sides to represent the earth's timeline, humans have inhabited this planet for what amounts to just the very tip of your fingernail. Therefore, as our existence on this earth is so short relative to the earth's



lifespan, we should do our best to not make our existence here fleeting. Bruce enlightened us on the benefits of sustainable habitats using recycled materials and building materials that are friendly to the environment. This is especially critical in parts of the world where the labor costs of building are low, but the cost of materials are high. Conversely, here in the U.S., the cost of building materials is low, but the cost of labor is high. In the end, Bruce agreed with the theme of NCW 2006, "Your Home—It's All Built on Chemistry". Bruce is striving to make green building a common practice right here in the Bay Area, and he believes that chemists could play a critical and innovative role in this. If you are interested in learning more about green building or have some inventive chemistry solutions to share



with Bruce, you are invited to contact him through his website, www.ecobuildnetwork.org. Thank you to all of you that came out to this fun event and asked lots of interesting questions in order to keep the discussion lively.

On Saturday, October 14, Santa Clara Valley ACS members and local



volunteers turned out to “turn kids on” to chemistry! A dozen volunteer students from DeAnza Community College, Santa Clara University and San Jose State coordinated four fun hands-on experiments for kids and their families. Over 100 curious kids now know how to test the tensile strength of their spaghetti, how to tell the difference between polystyrene and starch packing peanuts, how to decipher the difference between Oreo and organic dirt and most importantly—how to get slimed! Kids spun the crowd-favorite Chemistry Wheel of Fortune, where everyone won a prize! The highlight of this year’s prizes was free copies of the book “You Can Be a Chemist”. Families were also able to pick up



other ACS publications: “Chemistry Matters” and “Celebrating Chemistry”. Special thanks to student advisors Linda Brunauer and Cinzia Muzzi for rallying the volunteer troops. To join in the NCW fun next year as a volunteer, or to serve on the NCW Committee, please contact coordinator Abigail Kennedy at akennedy@exelixis.com.

Abby Kennedy

Fun with Elementary and Middle School Teachers at the 11th Annual Workshop

The 11th workshop for teachers was held at the Roche, Palo Alto campus on November 4th. The event was organized by Roche employee, Ferenc Makra, and cosponsored by the Santa Clara valley Section of ACS. Laura Randall and Maureen Sharberg, (who substituted for Juanita Ryan this year), taught the workshop. Forty two elementary and middle school teachers from schools as far away as the Monterey Peninsula and Livermore participated in this one-day hands-on workshop. This year’s theme was “Your House...It's All Built on Chemistry” following the National Chemistry Week theme.

The morning started out with registration, breakfast and a welcome speech from Dr. Anthony Ford, Vice President of Nuero and Biochemistry Pharmacology. The welcome speech was immediately followed by two sessions of hands-on activities. These



covered a variety of fun experiments such as building a pasta house using candy to hold it together and learning about minerals and solar energy.

All teachers received curriculum binders as well as materials and supplies to take back to their classrooms. Following the lunch that was provided as part of the workshop, Roche employees led tours around the campus. The tour included viewing of crystallography, HTS, molecular modeling and development laboratories.

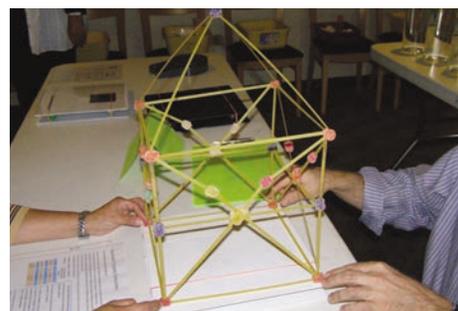
This year the teachers were particularly excited about the tour. They had many questions and even suggestions for next year’s workshop regarding a special lecture on PYMOL, a program to visualize 3D structures on computer.

After the tour, the workshop was evaluated and then followed by a raffle. Prizes included a computer for

every teacher, sets of goggles, T-shirts, wireless keyboards, office supplies and practical items that could be used in the classroom to conduct experiments for the students. All funding and giveaway items were provided entirely by Roche, Palo Alto. For this we would like to express our sincere gratitude.

Feedback from the teachers was extremely positive. The following quotes are from participants: “Every year I gain so much information and supplies. Please continue these workshops”, “Great program. The tour was wonderful”, “This was an absolutely incredible workshop,” and “We were treated like kings and queens all day.”

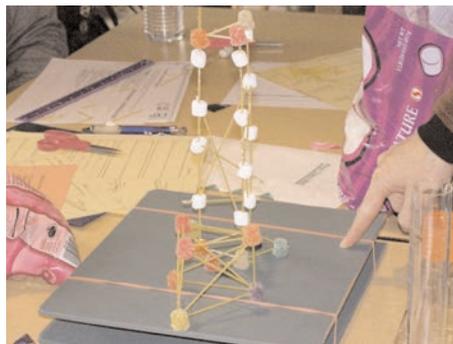
This successful workshop could not have been done without the efforts of hard working volunteers who gave up their Saturday (and some of them their evenings) prior to the workshop. I would like to thank



the following ACS section members:

Bonnie Charpentier, Lois Durham, Carol Mosher and George Lechner.

Special thanks also go to those Roche employees who made this day special for these Bay Area teachers: Pamela Berry, Erin Farrell, Meghan Ho, Alex Haedrich, Stephen Gomez, Tim Owens, Ann Marie Madera, Dov Nitzan, Joyce Tse, Julie Ng, Shelley Gleason, Dave Swinney, Hans Maag,



Tyler Ngai, Jahari Tracy, Lynne Yacovetta, Peter Thana, Gary Hedden, Charles Dvorak, Andreas Kuglstatter, Ken Brameld, Rama Kondru, Nev Khaira, Matthew Lucas, Sharon Vargo, Stacy Porter, Gabriella Huynh, Holly Flashman, Anthony Ford, Jim Dunn, Gina Castillo, Ruthie Hillby, Nicole Grinder, Carl Barry and Chris Jelinek

Ferenc Makra

2006 Abraham Ottenberg Service Award Committee Report

The Santa Clara Valley Section's Abraham Ottenberg Service Award was presented to George Lechner at the October dinner meeting.

The recipient was nominated for his services to the Santa Clara Valley Section as Alternate Councilor (1999-2004) and as Chair Elect, Chair and Past Chair in 2003. As Chair Elect/Program Chair he introduced a greater diversity in the monthly programs. As Chair (2004) and Past Chair (2006) he continued his proactive program planning to include joint programs with the California Section. He was reelected Chair-Elect and Councilor in 2006.

The Ottenberg Service Award was established in 1973 by the Santa Clara Valley Section to recognize members who have rendered outstanding service to the Section. It is named after Abraham Ottenberg, a former member who devoted much of himself to service to the Section. The award consists of an engraved ACS plaque and a check for \$200.00. Candidates are selected from nominations made to the Ottenberg Award Committee each spring. Nominees must be members of the Santa Clara Valley Section.

Previous recipients of the Ottenberg Service Award are: Shirley B. Radding (1974); Oliver F. Senn (1975); Floyd M. Hobbs (1976); Frank R. Mayo (1977); Harry S. Mosher (1978); Lois J. Durham (1979); Richard W. Gaver (1980); Alan C. Ling (1982); Ludwig A. Mayer and John F. Riley (1983); Howard M. Peters (1984); June G. Jones and Robert L. Montoya (1986); Malcolm Dole (1987); Donald E. Green (1991); Hubert E. Dubb (1992); Karl Marhenke (1993); Stephen N. Senzer (1994); Carol W. Mosher (1995); Bonnie Charpentier (1998), Linda Brunauer (1999), Herbert B. Silber (2000), Sally Peters (2001), Jamil Talhouk (2002), Ean Warren (2004), Maureen Scharberg (2004), and Hong Gao (2005). No award was given in 1981, 1985, 1988, 1989, 1990, 1996, or 1997.

Lois J. Durham
Chair, Ottenberg Award Committee



IISME Summer Fellowship Program

- Do you have a project coming up which your current staff doesn't have the time or expertise to complete?
- Would you like to make an impact on K-16 students in Silicon Valley?
- Would you like to have the services of a seasoned, enthusiastic, professional who brings excellent organizational and management skills along with new perspectives to a summer project?

The IISME Summer Fellowship Program can help you. Industry Initiatives for Science and Math Education (IISME) places about 200 local K-16 math, science, and technology teachers in 8-week industry and research Fellowships each summer. Teachers use this experience to improve and update their instruction and inspire more students to become technologically and scientifically literate.

IISME teachers can contribute to virtually any department within their summer host organizations. 95% of IISME mentors say their department benefited from the teachers' strong communication and technical skills, new and different perspectives, and enthusiasm and professional maturity. While you benefit from very competent extra help, the ultimate beneficiaries of the program are thousands of students who have a refreshed teacher with new resources and curriculum ideas.

Sponsors support the cost for each Fellowship -- between \$10,700 and \$12,000 depending on which of our organizations is designated the



Sobrato High School science teacher Jennifer Rilea worked at Affymetrix to identify and develop a computer-based microarray activity using real data and Affymetrix's bioinformatics tools. The activity was incorporated into curriculum that is being widely disseminated to high school biology and/or biotechnology students.

Employer of Record (EOR) for the teacher(s). Sponsors can screen, interview and select the teacher whose background and skills best meet their needs.

Last summer more than 500 teachers applied for 191 available Fellowships. Many IISME applicants are chemistry and biology teachers eager to work side-by-side with scientists in a research lab or company. For example, a high school chemistry teacher

helped Amgen with the synthesis and purification of new organic molecules that will be tested as potential drugs for treating obesity or another metabolic disease. Another chemistry teacher worked with a team at Stanford University trying to isolate the Tcb (teosinte crossing barrier) gene that is responsible for preventing domesticated corn from interbreeding with another strain of corn called Teosinte.

Over 50 corporations and research

labs hosted IISME teachers in 2006. These included Affymetrix, Applied Biosystems, Berlex, Genencor, Genentech, Lawrence Berkeley Lab, San Jose State, SRI Stanford University and UC Berkeley.

If you can provide a great learning opportunity for a local teacher, please contact Kaye Storm at kstorm@iisme.org or 650-326-4860 or visit www.iisme.org.

Kaye Storm

CHEMEMPLOYMENT ABSTRACTS DECEMBER 2006

CHEMEMPLOYMENT ABSTRACT 3875

Position Title: Production Chemist-Kilo Scale

Job Description: Carry out organic synthesis as written in batch records, using cGMP practices & SOP's and conduct research to develop new synthetic processes under the direction of a Senior Scientist. Expected to set up, use and clean glassware up to 100L, dispense and use raw materials, maintain accurate records & safely handle and dispose of hazardous materials.

QUALIFICATIONS DESIRED:

Education: BS in Chemistry

Experience: A minimum of 3 years experience in the Pharmaceutical/Biotech industry using cGMP practices, strong laboratory skills, good oral and written communication skills and excellent interpersonal skills and professionalism.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Santa Rosa, CA

Salary: DOE

Employer Description: Seres Laboratories, Inc is a small custom organic chemical synthesis laboratory specializing in process R&D & cGMP manufacturing of intermediates & APIs for pre-clinical, clinical trial and small lot manufacturing.

Application Instructions: Send resumes by email to epedersen@sereslabs.com or by fax to 707-523-4707

CHEMEMPLOYMENT ABSTRACT 3878

Position Title: Chemist

Job Description: In this pivotal role, you will design/synthesize novel organic molecules as drug candidates, interact with biologists & pharmacologists on project teams, & utilize bioassay results to expedite our drug discovery process.

QUALIFICATIONS DESIRED:

Education: BS/MS in chemistry with 5-10 years of medicinal chemistry experience, OR a Ph.D. in organic chemistry with 0-5 years of postdoctoral experience in organic synthesis or equivalent.

Experience: Excellent spectroscopic skills (NMR, MS) and a solid understanding of separation (HPLC, flash chromatography) methods are a must. Strong interpersonal & problem-solving skills are essential. Experience with process development/parallel synthesis is a plus.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Hayward, CA

Salary: DOE

Employer Description: Metabolex Inc., a privately held biotechnology company located in the San Francisco Bay area, is engaged in the discovery and development of novel therapeutics for the treatment of diabetes and related metabolic diseases.

Application Instructions: Metabolex, Inc., HR Department, 3876 Bay Center Place, Hayward, CA 94545 FAX: (510) 293-6857 email: jobs@metabolex.com

CHEMEMPLOYMENT ABSTRACT 3879

Position Title: Chemistry and Process R&D

Job Description: Participate in the development of new technologies for DNA microarrays using photolithography and solid-supported DNA synthesis chemistry. Responsibilities involve preparation and analysis of experimental reagents, equipment and procedures for array fabrication; planning and execution of experiments; and analysis and reporting of experimental results.

QUALIFICATIONS DESIRED:

Education: B.S. or M.S.

Experience: 3 years of relevant work experience demonstrating a hands-on proficiency in organic or analytical chemistry or biochemistry; an affinity towards instrumentation, and general competence with modern analytical methods. Also desirable is a familiarity with contemporary microlithography concepts and procedures. Excellent organizational, communication skills essential.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Santa Clara, CA

Salary: market/D.O.E.

Employer Description: ndustry leader in high-density DNA microarray technology for genetic analysis.

Application Instructions: go to <http://www.affymetrix.com/corporate/careers>

*Happy
Holidays!*





SANTA CLARA VALLEY SECTION
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Newsletter

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ChemPloyment Abstracts

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

Mark your calendars for these great upcoming events.

- Dec 11** Golden Gate Polymer Forum
Brad Phipps, Alza
<http://www.ggpf.org/>
- Jan 18** Dinner Meeting TBA*
Biltmore Hotel
Santa Clara, CA
- Jan 26-28** Leadership Conference
Baltimore, MD
- Feb 4-7** Chemistry in Cancer: a Vital
Partnership AACR/ACS
San Diego, CA
<http://www.aacr.org>
- Feb 25-27** Crystallization Process
Development
ACS ProSpectives Conference
Cambridge, MS
www.chemistry.org

*Please note that a January guest speaker has not yet been scheduled. Any date, time, or location changes will be announced in upcoming newsletters or can be found on the local section's website <http://www.scvacs.org>.