

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 27 No. 12

Teach the Teachers 10th Anniversary Edition

How do an ACS local section and employees of a local pharmaceutical company succeed in supporting chemistry education in their communities? One outstanding example is the workshop for teachers held annually on the Roche campus in Palo Alto. This year was a special celebration of the tenth program year of the workshop which is held in conjunction with National Chemistry Week.

The "Teach the Teachers" workshop strives to support teachers and reach the maximum number of students by offering a free day-long workshop which focuses on the yearly National Chemistry Week theme.



Teachers carry out hands-on experiments during the workshop and learn about the chemistry behind the experiments. They are provided materials to take back to the classroom to do the experiments, as well as other materials, such as class sets of the publications ChemMatters and Celebrating Chemistry. Breakfast and lunch are included to fuel the participants and to provide further opportunities for teacher and volunteer interactions. At

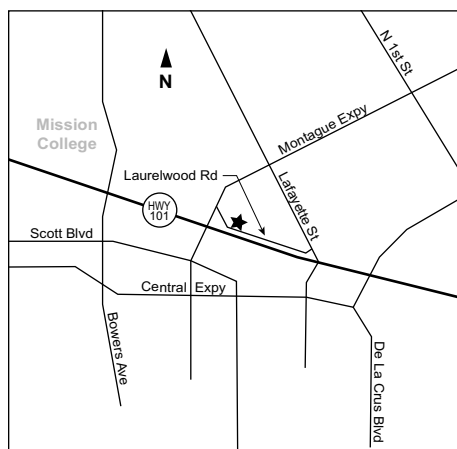
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The Results are in...



Please join us in congratulating Bonnie Charpentier on her new role as the 2006 – 2008

ACS District VI Director. Bonnie is the vice president of regulatory affairs and compliance at Genitope Corp., Palo Alto, California. She received 2,031 votes. Congratulations Bonnie, and we are glad that you are a part of Santa Clara Valley ACS Section!



January Dinner Meeting

Date: Thursday, January 19, 2006

Time: 6:00 Social Hour

7:00 Dinner

8:00 Lecture

Location: Biltmore Hotel & Suites
2151 Laurelwood Blvd.
Santa Clara, CA 95054
(See map below)

Speaker: Dr. Michael Doyle
University of Maryland
Mosher Award Winner

Cost: \$27.00 with the choice of Grilled Fillet of Salmon or Pasta Primavera with Marinara Sauce Includes wine with dinner.

Reservations: www.scvacs.org
Shirley Radding
408-246-2564
408-296-8625 Fax

Reservations should be made by January 16th, stating your name, address, company affiliation, number of people in party, and menu selection.

If you are unable to honor your reservation and do not cancel by Wednesday the 18th, you will be invoiced following the dinner meeting.





each workshop teachers are offered tours of the Roche laboratories with knowledgeable Roche employees as guides.

This year the theme of the workshop was "The Joy of Toys". Experiments included learning about polymers in silly putty, corn starch putty, oobleck, and various slimes and glops. Materials investigated include guar gum, polyvinyl alcohol, rubber and sodium polyacrylate. Fun was had with investigating a magic egg, smelly patches, monster flesh, and magic worms. Super teachers Juanita Ryan and Laura Randall provided outstanding presentations, instruction and enthusiasm. The success of the workshop is largely due to the talent, hard work and zeal of these amazing presenters.

Special features this year included introductory remarks by Dr. Justin Du Bois of Stanford on the importance of

science education and particularly of science teachers in ensuring the future. Dr. Du Bois also presented plaques to a surprised Juanita Ryan and Bonnie Charpentier recognizing them as founders of the workshop. ACS Director Howard Peters also provided a welcome to the teachers on behalf of ACS. Other special touches for this workshop included a tenth anniversary cake, and a poster and scrapbook prepared by volunteer Kristen McCaleb commemorating the themes of past workshops. Ten computers were given away to teachers, as well as other classroom supplies, laboratory supplies, and the ever-popular Roche t-shirts.

The popularity of the workshop was evidenced with 57 registrants representing a diverse and enthusiastic group of teachers, primarily from upper elementary and middle schools. Two teachers drove all the way from Bakersfield to attend. Feedback from



the teachers was very positive, and their suggestions, as always, will be used in planning future workshops.

The success of the workshop is dependent on the hard work and enthusiasm of many volunteers each year. This year Section stalwarts Lois Durham, George Lechner, Howard Peters, Sally Peters, Bruce Raby and Bonnie Charpentier participated. Roche volunteers included Joe Bamberg, Pamela Berry, Genevieve Boice, Gina Castillo, Charles Dvorak, Lisa English, Erin Farrell, Sandra Frauchiger, Nicole Grinder, Alex Haedrich, Gary Hedden, Ruthie Hilby, Li Li, Yan Lou, Matthew Lucas, Melissa Monahan, Connie Oshiro, Elena Owens, Tim Owens, Nancy Peterson, Roberta Schulte, Karin Stein, David Swinney, Peter Thana, Parcharee Tivitmahaisoon, Marzia Villa, Jutta Wanner, Lynne Yacovetta, Special thanks go to Ferenc Makra and Kristen McCaleb as the lead organizers for Roche for their untiring efforts in arranging the multitude of invitations, communications, materials, supplies, volunteers, and schedules that are required to make the workshop run smoothly.

The Santa Clara Valley Section is grateful to Roche and the volunteers for on-going support of this very effective program



Chair's Message

To every activity, there is a start or beginning and an end and so it is for the chair's Message. It has been an honor and a pleasure to serve as your Chair for 1980, 1995, and 2005. My term ends December 31, 2005. There will be a smooth transition to Dave Parker, your Chair for 2006.

My thanks to Dave who served as Chair-Elect and to George Lechner who served as Past-Chair in 2005. As always, thank you Carl for being Secretary again. We are a fortunate section to have 8 local section councilors in 2005. Santa Clara Valley Section has a reputation for involvement and ACS leadership.

Another sign of that leadership is that two members were elected to the Board of Directors: Howard Peters (Director-at-Large) and Bonnie Charpentier (Director, District VI). This means that of the 12 Directors on the Board, two are from our local section. Congratulations to Howard and Bonnie.

The Executive Committee of the Section has been studying the methods to distribute our Newsletter. The production and delivery are very significant costs in our annual budget. We have been posting the monthly Newsletter on our Web site: See <http://www.scvacs.org/newsletter> for details. We have seven years posted 12 issues/year. We could reduce expenses by about \$1,500/month by not printing and mailing a hard copy but instead sending an eMail notice that on such a date, a PDF copy is available for down-loading at our Web site. Members could scan and copy what parts interest them. For members without access to the Internet, perhaps they have a friend with home or work access. During an introductory period, we could send a postcard to notify members of the posting.

We will continue to explore delivery means and will propose some tests of software to implement the suggested means.

John F. Riley



Last Week of National Chemistry Week

Our final event for National Chemistry week (or in our case, month!) went exceedingly well. A multitude of kids flocked to the event to learn about and participate in chemistry at

the Klutz Toy Store in Palo Alto.

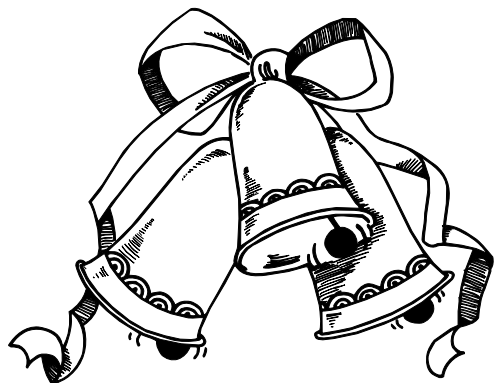
Many thanks are extended to the students from the University of Santa Clara. These brilliant students and budding chemists took time out of

their school schedules to come and run the experiment stations visited by the kids, and for that we are grateful.



National Awards - Call for Nominations

The American Chemical Society Awards Program is one of the means by which the Society meets its obligation "to encourage...the advancement of chemistry in all its branches, the promotion of research in chemical science and industry, [and] the improvement of the qualifications and usefulness of chemists." The continuing



Season's Greetings

excellence of the ACS awards program requires that a number of highly qualified chemistry professionals be nominated and that great care be taken in preparing the nominations.

Nominating Procedure for ACS National Awards

Nominations for 56 national awards administered by the ACS to be presented in 2007 are being solicited.

- Forms for nominations and supporting information, and a detailed description of ACS national awards are available at <http://chemistry.org/awards>.
- Any individual may submit a nomination for an award, unless that individual is a member of the selection committee for the same award. However, selection committee members may submit nominations for other awards.
- Nominations and inquiries concerning awards should be directed to the Office of the Awards Programs, awards@acs.org.
- The deadline date for all nominating material for 2007 ACS National Awards is February 1, 2006. Earlier transmittal is encouraged.

Project Bookshare Receives Donations

Africa, Asia, and Middle East Institutions Receive Project Bookshare Donations

Three 20-foot sea freight containers filled with 20 tons of chemistry/scientific publications – one each to overseas institutions were sent in Autumn 2005 from the ACS Project Bookshare Center in Canton, Mississippi to: (1) Cuttington University College in Monrovia, Liberia, (2) Ministry of National Education in Jakarta, Indonesia, and (3) Sana'a University in Sana'a, Yemen.

Asia: The donation to Indonesia included k-12 science, mathematics, and education/teaching publications

to be used in the national program for training k-12 science and math teachers to replace those lost in the December 26, 2004 tsunami wave disaster in Aceh and Nias, Indonesia. As part of the ACS Tsunami Relief Campaign, ACS members attending the 229th National Meeting in San Diego (March 13-17, 2005) contributed money and a variety of educational materials to help Indonesia rebuild its science and mathematics education infrastructure, which was devastated by the December 26, 2004 earthquake and tsunami. The money

collected at the meeting was used to purchase selected teacher training materials developed by the ACS Education Division. Additionally, donated k-12 educational materials in good condition and published within the last five years were included in the shipment to Jakarta.

Africa: The president of Cuttington University College in Monrovia, Liberia thanked the American Chemical Society for the donation and noted "...We are very grateful to the American Chemical Society for this donation, which is very timely, as our next semester starts on October 17, 2005."

Middle East: A science professor from Sana'a University in Sana'a, Yemen advised the ACS Project Bookshare office that the shipment reached Yemen on October 29, 2005. He expressed the University's appreciation for the donation and noted "...I wish you were here while we celebrate the event of unpacking the books and distributing them to our Sana'a University library and share with other universities here in Yemen."

Obituary

With great sadness we record the passing of

Henry Taube

November 30, 1915 - November 16, 2005

Novel Laureate in Chemistry, 1983

Our sincere condolences to his family and friends. Internationally recognized, Dr. Taube was a long time supporter of the Santa Clara Valley Section, ACS.

WCC Travel Awards Available

The Eli Lilly & Company is once again sponsoring a program to provide funding for undergraduate, graduate, and postdoctoral women chemists to travel to scientific meetings in 2006 to present the results of their research. Grants may be applied only for registration, travel, and accommodations, and are restricted to travel to meetings within the United States. Grant funds are limited, but there are some funds set aside for undergraduates. Only U. S. citizens and permanent residents are eligible. Applications should be limited to one

per research group. Awards will be given with preference to the following order: (1) any applicant who will be making her first presentation (regardless of format) at a national or major meeting, (2) graduate or postdoctoral applicants who have not presented at a national or major meeting since leaving undergraduate school. Women who have received a prior award under this program are ineligible.

The deadline is February 1, 2006 for receipt of applications for meetings between July 1 and December 31, 2006. For application and more

information visit the WCC Web site <http://membership.acs.org/W/WCC/> or write wcc@acs.org



CHEMPLOYMENT ABSTRACTS DECEMBER 2005

CHEMPLOYMENT ABSTRACT 3832

Position Title: Sr. R&D Engineering Manager

Job Description: Will be responsible for managing technical, personnel & business operations of the chemical analysis lab. Will also provide hands-on backup support to analysis, advise requesters of appropriate techniques to solve problems, & collaborate with R&D & FA functions.

QUALIFICATIONS DESIRED:

Education: MS and/or PhD, chemistry and/or equivalent work exp.

Experience: At least 7+ yrs hands on lab expertise in several of following areas: GCMS, IC, FTIR, ICPMS, and Raman. Supervisory exp required. Good verbal & written skills required.

LOCATION, SALARY, MAIL ADDRESS:

Location: San Jose

Salary: A highly competitive salary & benefits package, including medical, dental & vision & 401(k).
Employer Description: Throughout the world & across industries, innovative computer applications are demanding greater data storage capacity, Komag is the world's largest independent supplier of thin-film media for computer hard disks drives.

Application Instructions: Send resume, indicating position of interest to
Komag, Inc., Staffing Dept.
1710 Automation Parkway, San Jose, CA 95131,
FAX (408)944-9543
email: jobs@komag.com

CHEMPLOYMENT ABSTRACT 3833

Position Title: Inorganic/Materials/Optics

Job Description: This scientist or engineer will assist in developing a new optical encoding technology for high throughput gene expression and genotyping. Candidate will attach DNA and protein molecules to encoded particles and use hyperspectral imaging to screen particles in a high throughput mode.

QUALIFICATIONS DESIRED:

Education: Ph.D. or comparable experience required
Experience: Desirable experience: inorganic optical materials, inorganic and colloid synthesis, hyperspectral imaging, operation of lasers and laser diodes, optics, instrumentation development, fast and sensitive CCDs, spectrometers, statistical analysis of very large data sets, LabView and C++. Any biology or biochemistry experience a real plus.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Santa Clara CA

Salary: Commensurate with Experience

Employer Description: Parallel Synthesis Technologies, Inc. manufactures micromachined silicon components and optically encoded materials for high throughput biotechnology applications.

Application Instructions: Please look at www.parallel-synthesis.com and then send your resume to jobs@parallel-synthesis.com

CHEMPLOYMENT ABSTRACT 3834

Position Title: Synthetic Chemist, Ph.D.

Job Description: Open position for a talented synthetic organic chemist in the Research and Development Department. The position will be filled by someone who is able to work independently in a small interdisciplinary group and enjoys working at the bench. Work will focus on the design and synthesis of small molecules and polymeric materials in the field of biochemical labeling and detection.

QUALIFICATIONS DESIRED:

Education: Ph.D. in synthetic organic or polymer chemistry

Experience: Experience in all aspects of small molecule synthesis, purification, and characterization is required. Experience in polymer chemistry, conjugation chemistry, protein/DNA chemistry, and photochemistry/fluorescence spectroscopy is desired. Post-doctoral and/or industrial experience (1-3 years) is preferred.

LOCATION, SALARY AND MAIL ADDRESS

Job Location: Burlingame, CA

Salary: Commensurate with experience

Employer Description: Vector Laboratories, Inc. is an established and innovative manufacturer of biochemical detection systems.

Application Instructions: Candidates should forward their resume, along with a research summary describing relevant and recent research projects, to jobs@vectorlabs.com, referencing CHEM05 in the subject line.

CHEMPLOYMENT ABSTRACT 3835

Position Title: Group Leader, Organic Chemistry, job code CM-24010

Job Description: The Group Leader will direct the activities of our chemistry group in the R&D of novel products focused on the separation and detection of proteins. Technical focus is on photochemistry, polymer chemistry, fluorescent dyes and separation science.

QUALIFICATIONS DESIRED:

Education: Ph.D in organic chemistry or related discipline

Experience: Candidates must have an established record guiding and motivating a group that executes multiple complex experiments simultaneously. Must have knowledge or experience in polymer chemistry, photochemistry, small molecule synthesis, proteomics in chemistry and dye chemistry. Must also possess excellent communication skills and demonstrated leadership ability.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Palo Alto, CA

Salary: Depends upon experience

Employer Description: Cell Biosciences is an exciting, pre-IPO biotechnology company commercializing revolutionary instrument and reagent systems to change the course of biological research.

Application Instructions: Please email your resume to hr@cellbiosciences.com, referencing job code CM-24010 in the subject line.

CHEMPLOYMENT ABSTRACT 3836

Position Title: Organic Chemist, job code CM-24015

Job Description: Seeking versatile Organic Chemists to join a team developing bioanalytical instrumentation in a start-up environment. The majority of work will be hands-on in the lab. Successful candidates will be responsible for preparation of small molecules and polymeric materials and development and evaluation of new materials to enhance system performance.

QUALIFICATIONS DESIRED:

Education: MS/BS or Ph.D. in organic chemistry or related discipline

Experience: Experience and/or knowledge in polymer chemistry, photochemistry, small molecule synthesis, protein chemistry and dye chemistry. Solid skills in experimental design, execution and data analysis. Industry experience preferred.

LOCATION, SALARY AND MAIL ADDRESS

Job Location: Palo Alto, CA

Salary: Depends upon experience.

Employer Description: Cell Biosciences is an exciting, pre-IPO biotechnology company commercializing revolutionary instrument and reagent systems to change the course of biological research.

Application Instructions: Please email your resume to hr@cellbiosciences.com, referencing job code CM-24015 in the subjectline. Abstract 3836; will run until January 13, 2006 or until position is filled.

CHEMPLOYMENT ABSTRACT 3837

Position Title: Research Associate, job code CM-24020

Job Description: Seeking a motivated and organized Research Associate to join our chemistry group in the development of products focused on the separation and detection of proteins. The position involves organic synthesis of polymers, labeling of biomolecules and QC of instrumentation. Will work closely with other disciplines within the company and will prepare technical reports, product documentation and present results in department meetings.

QUALIFICATIONS DESIRED:

Education: B.S. in Chemistry, or a related scientific field.

Experience: Proven problem solving skills, adaptability and excellent communication skills. Working knowledge of standard computer application programs (Word, Excel, PowerPoint). Two years experience in an industrial setting, or the equivalent.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Palo Alto, CA

Salary: Depends upon experience

Employer Description: Cell Biosciences is an exciting, pre-IPO biotechnology company commercializing revolutionary instrument and reagent systems to change the course of biological research.

Application Instructions: Please email your resume to hr@cellbiosciences.com, referencing job code CM-24020 in the subject line.





**SANTA CLARA VALLEY SECTION
AMERICAN CHEMICAL SOCIETY
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CHEMEMPLOYMENT ABSTRACTS

Visit our web site at:



<http://www.scvacs.org>

To receive emails when newsletters are published on our web site, send an email to SCVACS-newsletters-subscribe@yahoogroups.com.

SANTA CLARA VALLEY SECTION

2005 Section Officers

Chair: John F. Riley	650-328-4036	jfriley2004@sbcglobal.net
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Secretary: Karl Marhenke	831-479-6263	karlmar@armory.com
Treasurer: Herb Silber	408-924-4954	hbsilber@sjsuvm1.sjsu.edu
Past-Chair: George Lechner	408-226-7262	george.lechner@usa.xerox.com

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2004-06: Peter Rusch	650-961-8120	pfrusch@aol.com
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2005-07: Herb Silber	408-924-4954	hbsilber@sjsuvm1.sjsu.edu

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2005-07: Mark Kent	408-736-0989	makent@earthlink.net
2005: Abby Kennedy	650-837-8043	akennedy@exelixis.com
2005: Bruce Raby	408-297-6718	brida954@comcast.net

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ChemEmployment Abstracts

Director: **Shirley B. Radding** 408-246-2564 sbradding@sbcglobal.net

FUTURE MEETINGS

Dec 15-20	PacifiChem 2005 Honolulu, HI
Jan 19	Monthly Dinner Meeting Santa Clara, CA
Jan 22-25	Western Regional Meeting Anaheim, CA
Feb 6-9	Process Chemistry in the Pharmaceutical Industry Miami, FL
Mar 26-30	231th National ACS Meeting Atlanta, GA
Apr 9-12	BIO 2006 Chicago, IL

For the latest information, please visit
SCV/ACS web site: www.scvacs.org



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