

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 23 No. 6

Annual Wine Tasting, Family Picnic and Awards Ceremony

The Santa Clara Valley Section will hold its annual Wine Tasting, Family Picnic and Awards Ceremony on July 28th (Saturday) at the Keck chemistry building on the Stanford campus. We will taste four intriguing wines from a Santa Cruz Mountain winery. The tasting will begin at 4:30 p.m. in the foyer of the Keck building.

New this year will be ACS wine glasses. Each adult will be able to take home a glass with the ACS logo. A self-serve buffet supper will begin at 5:30 p.m. on the patio of the nearby Mudd building. Recognition of the ACS 50 year members and Awards for the Santa Clara Valley Section will follow dinner.

The price for the dinner and tasting will be \$15.00. Children aged 4 to 12 are only \$5.00. Dinner is free for children under the age of four. The deadline for reservations is July 23rd. Payment is required in advance, as we are not allowed to accept

money on campus. Registration on the web is not available. This is an informal, relaxed event. There is a

large grassy area next to the Mudd building where children can play. Bring blankets for eating picnic style. If you require more proper seating, please indicate that on your reservation, and we will arrange for some tables and chairs.

Chair's Message

The school year has ended, vacations are planned and events have become more relaxed in the ACS. Following tradition, the section does not sponsor a meeting in June. But mark July 28th on your calendar for the Annual Wine Tasting, Family Picnic and Awards Ceremony. This has always been a casual, friendly time when members can get together to meet new friends, reminisce with old ones, or explore the Stanford campus. The Rodin Sculpture Garden and the Cantor Center for Visual Arts (Stanford Museum) are across Roth Road from the Keck building. A garden you may not be familiar with is also within walking of the Keck building – the New Guinea Sculpture Garden. Ten master New Guinea carvers created this unexpected area of native culture in 1994. It is located in an oak and cedar grove in front of Roble Dormitory on Santa Teresa Street, a few blocks west of the Chemistry Department.

One of our newer local section volunteers is Tricia Takahara. Tricia chaired the Chemistry Olympiad for Santa Clara Valley and was a judge at the Intel ISEF. Tricia works at Roche Bioscience when she is not volunteering. She thanked all of her helpers in her report elsewhere in the newsletter, but I want to thank her! The Olympiad was a big undertaking this year and we appreciate all of your work!

Besides the school year ending, this is the time of year for new graduates to *continued on next page*

RESERVATION FORM

Annual Wine Tasting, Family Picnic and Awards Ceremony

Stanford University – July 28, 2001

Deadline for Reservation – July 23, 2001

Name(s): _____ Telephone No.: (_____) _____

No. of Reservations at \$15.00 _____

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

Total Amount Enclosed \$ _____

Make check payable to: Santa Clara Valley Section – ACS

Mail check and reservation form to: Ms. Shirley Radding, 2994 Cottonwood Court, Santa Clara, CA 95051

Chair's Message, continued from front page

begin job searches in earnest. On June 1st JobSpectrum.org was introduced on the webpage of the national ACS www.jobspectrum.org/index.html.

JobSpectrum is an online career and employment connection from the American Chemical Society. Its purpose is to serve the chemical science community by connecting job seekers and employers online in ways that meet their needs and replaces the current Professional Data Bank (PDB). Our local-section-produced ChemEmployment still contains the most current job listings for chemists in Silicon Valley. But if you are looking for jobs or to list a job in other parts of the country, check out **JobSpectrum.org**.

On Thursday, May 10th your chair had the honor of representing the local section and the national ACS by presenting the national Special Awards to the students at the Intel International Science and Engineering Fair in San Jose. Special Awards were

presented by fifty scientific, professional and educational organizations to the talented young students from around the world. The awards continued on Friday at two other ceremonies. Government and industry awards and college scholarships were presented in the morning and the grand awards consisting of cash, computers and trips were presented in the afternoon. The judges for the ACS awards (that are mentioned elsewhere in the newsletter) and 1100+ other judges put in 1-2 long, intense days. Our section was well represented in several categories in addition to the Special Awards. Thanks to all of our members who volunteered their time and expertise to guide these students in their scientific careers. A special vote of thanks goes to the person responsible for all of these judges, our hardworking and persistent alternate councilor, Roy Okuda. Thank you for a job well done!

Continuing down memory lane

this month, I recently gathered some boxes of "stuff" from the San Jose State Chemistry Department. They had been storing old local section records for years. Included were back issues of the Vortex, the newsletter shared by the California section and several of the local sections that spun off from it. Forty-five years ago this month the dinner speaker was Dr. Wallace Brode, associate director of the NBS. Dinner was at a restaurant called Betty and Lee's; the entree was steak, and the cost \$2.30, tax and tip included! The topic of the talk was organic dyestuffs and it was held at the Chemistry Building at Stanford. In 1976 (25 years ago) we had a forum of four speakers discussing the nuclear power initiative. By then we had moved to the Stanford Research Institute in Menlo Park and the cost was \$5.50! In both cases reservations went to Shirley Radding!



CHEMISTRY OLYMPIAD Update

Fourteen of the top chemistry students from the Santa Clara Valley Chemistry Olympiad took part in the United States Chemistry Olympiad (USNCO) on April 21st, 2001, at Santa Clara University. The exam consisted of three sections: a multiple choice test (90 min.), a free response problem solving test (105 min.) and a laboratory practical (90 min.). It was a difficult way to spend a Saturday!

The tests were sent to national for grading and the results have not been released yet. If you would like to test yourself on the questions, go to www.acs.org/education/student/co02.html.

Thanks to all those who helped make this year's Olympiad a success!

Volunteers from the Santa Clara Valley Section included Bonnie

Charpentier, Mark Hasegawa, Robbie Korin, Bruce Raby, Roy Rocklin, Anton Simeonov, and Amy Takahara. Special thanks to Linda Brunauer and George Doeltz of Santa Clara University. Linda helped out extensively and facilitated the use of Santa Clara University's classrooms and labs for the national test, and George spent a great deal of time obtaining equipment and putting the lab practical sets together for the students. Also, a special thanks to Maureen Scharberg who volunteered as well as gave the students a great explanation of the lab practical problems right after they completed that section. The students really appreciated getting immediate feedback on how they did.

Also, a big thank you to the people at Roche who helped secure

funding and provided a place to hold the local section test. David Austin, Eric Sjogren, and Hans Maag provided funding. Keith Sonberg, George Leontovich, and Pam Costa arranged for the snacks, and Maria Ruiz put together the goody bags.

Another bit of good news is that all five of the local section test winners are juniors and plan to compete again next year! Overall, 51 of the 74 students who took the March qualifying test were sophomores or juniors and signed up to come back next year.



Intel International Science and Engineering Fair (ISEF)

On Wednesday, May 9, 10 ACS local section members spent long hours deliberating who will win ACS awards at the Intel International Science and Engineering Fair in San Jose. The Intel ISEF is the Olympics, the World Series and the World Cup of science competition. Now in its 52nd year, the Intel ISEF is the world's only science project competition for students in the ninth through twelfth grades. The Intel ISEF brings together students, teachers, corporate executives and government officials from

around the world. Students compete for over \$2 million in scholarships, tuition grants, scientific equipment and scientific trips. Prizes are awarded by companies, professional groups, governmental agencies, and universities. Grand Prizes for the top projects of the fair include \$50,000 scholarships and all expense-paid trips to the Nobel Prize ceremony in Stockholm.

During the week of May 6 - 12, over 1,200 high school students from over 40 countries gathered at San Jose Convention Center to present their lat-

est research in fields ranging from behavioral and social sciences to zoology, with chemistry, engineering and mathematics in between. With the quality seen at professional meetings, the projects' originality, depth and presentation greatly impressed the judges.

The ACS presented 4 cash prizes and 6 honorable mentions at the event. Each winner receives a certificate, plaque, t-shirt and subscription to ChemMatters. The following students won awards:

Place	Award	Name	Title
First	\$500	Michael Ng Patrick Li	Sol-Gel Synthesis of Yttrium Iron Garnet Magnets
Second	\$300	Jayanta Mohanty	Role of Electrostatics on the Dynamics of Ionic Oligomers through Random Media
Third	\$200	Amanda Busby	Glass IV: Toward a Standard
Fourth	\$100	Arun Thottumkara	Synthesis of User and Eco-Friendly Hypervalent Iodine Reagents
Honorable Mention		Title	
Laura Egerdal		Cysteine Reactivity in Stored and Fresh Rat Muscle Fibers	
Tyler Ellis		Comparison of Sulfonated Biomasses to an Acidic Ion-Exchange Resin for the Removal of Toxic Metal Cations from an Environmental Water Sample	
Emily Kraft		Effect of Pigment Size on UV-related Fading of Paint	
Alexander Dorofeev		Electrochemical Oxidation of Aryl Alkyl Ketones	
Terri Myers		Aluminum Enhancement by a Recently Discovered Thermoacidophile, Phase III: Study of Siderophore Production	
Jerry Chow		Ground State of a Quantum Well and the Magnetic Flux Quantum	



Sally Peters (upper left corner) with the winners of Intel International Science and Engineering Fair: A. Busby, J. Chow, A. Dorofeev, L. Egerdal, T. Ellis, E. Kraft, P. Li, J. Mohanty, M. Ng and A. Thottumkara.

Congratulations to these young scientists and to all who participated. For a list of all winners and projects of all prizes, see www.sciserv.org/isef/pressrel.asp.

Many thanks to the ACS judges who spent many long hours evaluating and discussing the projects: Steve Colby, Marcia France, Ruth Hathaway, Sarah Paquette, Charmaine Qiu, Jack Riley, Patricia Takahara, Jonathan Touster, Jodi Weseman, and Ean Warren.



ACS-SCV NOMINATIONS FOR 2002 PETITION CANDIDATES

Petition candidates can be nominated by the membership.

Offices are: **Chair-Elect, Secretary, Treasurer, Councilor, Alternate Councilor**

The requirements are:

- Member (Grade) of SCV Section.
- Agreement to run for the office.
- Agreement to attend Executive Committee meetings.

- Signatures of 15 Members (Member Grade) of the SCV Section.
- Petitions along with a brief biography and statement must be received by August 1, 2001

Mail nominations to:

Dr. Karl Marbenke
1710 Wilshire Drive
Aptos, CA 95003-2836

A New Program Committee A Need for Volunteers

The Executive Board of the Santa Clara Valley Section has approved the formation of a Program Committee under the leadership of the Chair-Elect. This committee's function is to select speakers for the monthly meetings, arrange meeting sites, and help with any other meeting program such as the social wine tasting event.

Several of the Executive Board members have already volunteered to serve but we are looking for new members from the general membership. The work will be shared by all the members of the committee. What

the Board is looking for is additional help in finding subject matter and speakers that will appeal to more of the membership.

Does this appeal to you? Do you have suggestions and would you like to work on this committee to attract interesting speakers?

Contact:

Jonathan Touster

650-723-4340

email: touster@leland.stanford.edu

or **Sally Peters**

650-854-4614.

email: speters@parc.xerox.com

New Career Services Publication

In April 2001, ACS Department of Career Services published "Tips on Writing a Curriculum Vitae," a Professional & Workforce newsletter that provides guidance on how to develop this vital tool when seeking an academic position. While there is general agreement that an academic application should include these elements — a C.V., a strong cover letter, a research proposal and a teaching philosophy — there is little consensus which one is most important. This article includes the advice of seven chemistry professors on how to write an effective C.V. For more information about the publication or other ACS Career Services products, please call 1-800-227-5558 or email: careers@acs.org.

ACS Sites

ACS Programs Web Site:

www.acs.org/acsprograms.html

- Membership Benefits (Career Services, Membership Services, Member Insurance, Non-Technical Member Benefits)
- Programs and Services (Awards, Belmont Conference Center, CAS Products and Services, ACS Matching Gift Fund, Career Services, Continuing Ed/Professional Development, Committee on Professional Training, Diversity Programs, Grants, International Activities, Meetings, Member Insurance, National Historic Chemical Landmarks Program, Office of Industry Member Programs, Office of Legislative and Government Affairs, Online Store, Student Affiliates Program)
- ACS Governance (Board of Directors and ACS President; 2000 ACS National Election; Committee List; Committee Home Pages; ACS Strategic Plan: 2001-2003; ACS Strategic Plan: 1998-2000; ACS Charter, Constitution, Bylaws and Regulations)
- ACS Annual Report (1999 Annual Report)

The Office of Graduate Education has a Web site:

www.acs.org/education/student/gradededucation.html

- ACS Resources and Services related to graduate education
- Career information
- Special Reports and Surveys
- Additional links to other resources

Please direct your inquiries to the Office of Graduate Education at (800) 227-5558 ext. 6176 during regular business hours 8:30 am - 5:00 p.m. (EST), e-mail at GradEd@acs.org.

ACS Clip Art: www.acs.org/clipart/

ACS Library and Information Center:

www.acs.org/informationcenter

Phone: (202) 872-4513

Fax: (202) 872-6257

E-mail: library@acs.org

smallTalk2001

The Microfluidics, Microarrays and BioMEMS Conference

Sheraton San Diego Hotel and Marina

San Diego, CA

August 27-31, 2001

Organized by the Association for Laboratory Automation (ALA) and now in its third edition, smallTalk has brought together leading international scientists, exhibitors, and an educational program for a dynamic event. For 2001, the distinguished scientific committee has expanded the scope of smallTalk to include topics in the fast-growing bioMEMS field. smallTalk has become the only conference covering all these technologies in a single event featuring many leading edge applications to the problems of chemical and biochemical analysis and characterization. We also have expanded the short course program to five courses and have an expanded exhibit area.

Keynote Speaker

DNA Chips and Whole Genome Scanning

Stephen Fodor, Chairman and CEO of Affymetrix

Plenary Speakers

Tool Companies: The Broad Impact on Biotechnology

Fariba Ghodsian, Roth Capital Partners

Different Concepts in 3d Microsystems

Stephen Jacobsen, University of Utah

Session Topics

- | | | | |
|------------------------|-------------------------|-------------------------|---------------------|
| -Microarrays | -Microreactors | -Genomics | -bioMEMS |
| -Biomaterials | -Proteomics | -Microfluidics | -Drug Discovery |
| -Tissue Engineering | -Molecular Diagnostics | -Small Molecule Arrays | -Separations |
| -Modeling | -Detection Technologies | -Microfabrication | -Materials |
| -Micro/Macro Interface | -Cell-Based Assays | -Bio-Artificial Hybrids | -Data Visualization |
| -RNA Expression | -Genetic Analysis | -Protein Analysis | -Informatics |

Short Courses

Intro to Lab Automation

Visual Basic

Microarrays

Microfluidics

Informatics

For complete information and Registration:

<http://Labautomation.org>

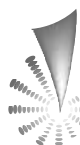
or contact: David Herold, MD, PhD

VAMC — 113, 3350 La Jolla Village Drive

San Diego, CA 92161

tel: 858.552.8585 x 7758

e-mail: dherold@ucsd.edu



smallTalk2001

Association for Laboratory Automation



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AMERICAN CHEMICAL SOCIETY
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CHEMPLOYMENT ABSTRACTS



<http://www.scvacs.org>

SANTA CLARA VALLEY SECTION

2001 SECTION OFFICERS

Chair	Sally Peters	650-812-4994
Chair-Elect	Jon Touster	650-723-4340
Secretary	Karl Marhenke	831-479-6263
Treasurer	Hong Gao	650-564-5197
Past-Chair	Ean Warren	650-329-4554

Councilors

1999-01	Herb Silber	408-924-4954
2000-02	Maureen Scharberg	408-924-4966
2000-02	John F. Riley	650-328-4036
2000-02	Ean Warren	650-329-4554
2001-03	Linda Brunauer	408-554-6947
2001-03	Bonnie Charpentier	650-354-2344
2001-03	Sally Peters	650-812-4994

Alternate Councilors

1999-01	Peter Rusch	650-941-8120
1999-01	Jon Touster	650-723-4340
2000-02	Roy Okuda	408-924-2525
2000-02	Donna Drogos	408-265-2600
2000-02	Lance Wong	650-829-1148
2001-03	George Lechner	408-226-7262
2001-03	Howard Peters	650-324-1677

Newsletter Editor

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e-mail: scolby@carr-ferrell.com

FUTURE MEETINGS

May 4 - Jun 19	Illustrating Nature Exhibit Santa Cruz
Jun 14-15	Ground Water Contaminates No. CA MTBE & Fuel Oxygenates
Jul 28	Annual Wine Tasting & Awards <i>Stanford University</i>
Aug 26-30	National ACS Meeting Chicago, IL
Sep 6	Biodegradation of MTBE under Methanogenic Conditions <i>N. Calif. MTBE Committee</i>
Sep 20	SCV Dinner Meeting
Oct 28-31	Western Regional Meeting Santa Barbara

CHEMPLOYMENT ABSTRACTS

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