

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 26 No. 5

Good Food - Great Wine - Interesting People

Saturday, June 26th is the day and the Stanford University Chemistry Department is the place. Plan to bring a guest and the kids and attend the annual wine tasting, family picnic and awards ceremony. We will begin with wine tasting at 4:30 p.m. in the lobby of the Keck building, move to the patio of the Mudd building at 5:30 p.m. for a buffet dinner, and then inside at about 7:00 p.m. for the awards. Austin's beef brisket was such a hit last year, that they will be catering the event again this year! There will be salads, veggies, bread, dessert, and drinks for all. Vegetarian kabobs will be available for the vegetarians.

In past years, we have heard some interesting stories from our 50 year members and this year will be no different! Fifty years in the field of chemistry – that is like being married

to the same person for 50 years! The section has 15 new 50 year members to help us celebrate our 50th anniversary as a section.

Remember this is the one event that has to be prepaid. Cut out the registration form and mail a check to the Santa Clara Valley section. The cost is only \$16.00 per adult and \$5.00 per child (the Alcohol Beverage Control Board makes these rules, we do not). Contact your section officers or counselors if you have any questions.

Your 2004 Executive Committee is planning some events for the Fall to specifically help us celebrate the section's 50th anniversary. Come to the picnic and hear the first of the plans! Check the web site (<http://www.scvacs.org>) for the latest news on the winery that our experts select.

Chair's Message

At the April dinner meeting, we were told by Dr. Mike Baldwin how chemistry plays a unique role in the development of disease, specifically how rogue proteins (aka prions) behave in the nervous systems of humans and cows. It was a very interesting and informative discussion. I hope that those of you who attended enjoyed the dinner, talk and camaraderie of fellow members.

There is no monthly dinner meeting scheduled for May. Our next scheduled meeting is on Saturday, June 26th. We will be celebrating membership in the ACS and Santa Clara Valley Section. We will be holding our annual wine tasting event at Stanford University and honoring our fellow members who have been ACS members for 50 years. Please plan to

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RESERVATION FORM

Annual Wine Tasting, Family Picnic and Awards Ceremony

Stanford University – Saturday, June 26, 2004 Deadline for Reservation – Monday, June 21, 2004

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

No. of Reservations at \$16.00 _____

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

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

Chair's Message, continued from front page
attend. And, 50 years ago this year our local section was formed. There will be anniversary celebrations later this year.

And while I'm talking about membership, I was informed that 92% of us are on our way to 50 years, too. But, 8% may be slipping away. I would remind everyone the Society and the Section rely on your continu-

ing membership with paid up dues. Although section dues are voluntary, we do need your financial support to provide the programs we offer: dinner meetings with interesting topics, symposia, tours, ChemOlympiad, National Chemistry Week, ChemPloyment, teacher workshops, student affiliates, various section awards, joint meetings with other scientific groups and programs for young chemists, women

chemists, retired chemists, running chemists (think Bay to Breakers), budding chemists, and the rest-of-us chemists. Please take a few minutes to reflect on your own membership and decide how you can best serve both yourself and your Society. I urge you to take an active role, keep your dues paid and participate in Section activities. Check out <http://www.scvacs.org/>.



227th ACS National Meeting Councilor's Report

Anaheim, California March 26-31, 2004

The spring 2004 ACS National Meeting was attended by Santa Clara Valley Section Councilors Linda Brunauer, Bonnie Charpentier, Sally Peters, Jack Riley, Peter Rusch, Herb Silber, and Ean Warren. This report provides some highlights from the meeting, with a particular focus on Council and Board actions.



General Meeting Statistics and Information

Meeting attendance as of Wednesday morning was 14,141. At the National Employment Clearing House, 1,281 job seekers were scheduled for 1,597 interviews for 271 positions posted. In addition, 112 mock interviews and 232 resume reviews were conducted. While the overall national employment rate has slightly declined over the last year, results of the 2003 ACS Salary Survey showed chemists' unemployment at an all time high of 3.5%.

Membership in the American Chemical Society was 159,332, as of year-end 2003. This number represents a decline of 1% in the overall membership. However, the number of student members increased by 3.7% and the number of recent graduates increased by 50%.

The overall financial performance of the Society for 2003 was favorable. For 2003, the Society ended the year with a net deficit from ACS operations of \$64,000; this year-end financial performance was \$811,000 favorable to

the 2003 Approved Budget. As of December 31, 2003, the Society's unrestricted net assets totaled approximately \$161 million.

The Legislative Action Network (LAN) is being mobilized to help communicate concerns to Congress. The network notifies members when emails to Congress would be most timely and provides a suggested message, which is easy to modify and personalize before sending.

Sally Peters reports from the Local Section Activities Committee (LSAC) that our section was one of the 155 sections to get their annual report in on time, and one of 150 to submit the report electronically. Our section also



The Sci-Mix Crowd.

was one of 63 sections to submit activities to be considered for the ChemLuminary Awards which will be given at the August national meeting.

Bonnie Charpentier reports from the Council Policy Committee (CPC) that a recommendation from CPC to consider establishment of an ACS Ethics Committee has been acted on. The Committee on Committees will bring a recommendation to Council in Philadelphia that Council approve the establishment of an Ethics Committee, as an Other Committee of Council, with the following charge: "To coordinate the ethics-related activities of the Society; serve as an educational resource and clearinghouse, but not as an adjudicatory body, for ACS members seeking guidance and ethics issues; raise awareness of ethics issues through meeting programming and columns/editorials; review recognition opportunities for acknowledging ethical behavior; and to develop and oversee such other ethics-related activities as will serve ACS members and increase the standards of ethical conduct within the profession of chemistry and its related disciplines." Your comments and thoughts on the proposal would be appreciated.

A "Town Meeting" on Sunday afternoon provided an opportunity for meeting attendees to ask questions and hear the views of the nominees for ACS President-Elect (see election results under Actions of Council, below).



Western District

The Western District Councilors Caucus met Sunday evening to discuss

petitions and issues coming before council and in committees. The Western Regional Meeting will be held October 27-30, 2004 in Sacramento.

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Actions of the Council

Election Results

- The Committee on Nominations and Elections presented to Council the following nominees for selection as candidates for President-Elect, 2005: Edward M. Eyring, F. Sherwood Rowland, Gary B. Schuster and Isiah M. Warner. By written ballot the Council selected F. Sherwood Rowland and Isiah M. Warner as candidates for 2005 President-Elect. They join E. Ann Nalley, who was certified as a petition candidate for 2005 President-Elect.
- The Committee on Nominations and Elections presented Lawrence Barton and Connie J. Murphy to Council as candidates for election to the Committee on Committees (ConC) to fill a vacancy. The vacancy was created by the resignation of Nancy B. Jackson, who was elected to the Board of Directors as a Director-at-Large. By written ballot the Council elected Connie J. Murphy.
- Candidates Roger A. Parker and John F. Riley were presented to Council for election to the Committee on Nominations and Elections (N&E). The election was to fill a vacancy on the committee that was created by the resignation of James W. Long. By written ballot the Council elected Roger A. Parker.

2005 Member Dues

The Council VOTED to set the member dues for 2005 at the fully escalated rate of \$123.00. Each year the Council approves member dues as authorized in the Bylaws.

Division Request and Action

The Council VOTED to formally dissolve, as of June 30, 2004, the probationary Division of Laboratory Automation. This action was taken at the request of the Division's leadership.

Petitions for Consideration

The Council received for consideration three petitions: Petition for Electronic Balloting; Petition to Change Division Annual Report Deadline; and Petition for Membership Requirements for Teachers. Action is expected on these petitions at the 2004 Fall National Meeting in Philadelphia.

Special Discussion Item

A special discussion item was put on the Council agenda for this meeting. ACS President Charles Casey and Board Chair James Burke briefed the Council on the status of partnership efforts between the American Chemical Society and the American Institute of Chemical Engineers (AIChE) and noted the implication of these efforts for ACS. Councilors then participated in a discussion of this issue. Currently, the ACS and the AIChE are pursuing a programmatic alliance that will more fully serve the needs of their members and the chemical enterprise, while enhancing both organizations' abilities to achieve their missions. Consideration also is being given to a membership alliance that could include expanded opportunities for members to participate more fully in both organizations. The discussion at Council revealed strong support for moving forward with these initiatives and identified key factors for consideration.

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Actions of the Board of Directors

ACS Awards

The Board of Directors VOTED to select recipients of the 2005 Priestley Medal, the 2005 Parsons Award and the 2005 Award for Volunteer Service to the ACS. The Priestley Medal recognizes distinguished services to chemistry; the Parsons Award recognizes a Society member's outstanding public service; and the Volunteer Service Award recognizes volunteer efforts of an ACS member who has significantly contributed to the goals and objectives of the Society. The names of award recipients will be announced after they have been notified.



Many of the CHAL's posters.

The Society's Interactions with its Members

The Board VOTED to approve nominal cosponsorships of the American Oil Chemists Society Conference on Industrial Applications of Renewable Resources and the 2004 International Conference of Computational Methods in Science and Engineering as organized by the European Society of Computational Methods in Science and Engineering. The American Oil Chemists Society Conference will be held in Chicago, Illinois, October 11-14; and the International Conference of Computational Methods in Science and Engineering will be held in Attica, Greece, November 19-23. Both conferences should be of interest to our members.

The American Chemical Society was the lead organizer of the very successful December 2003 conference entitled, Frontiers of Chemical Science: Research and Education in the Middle East, held in Malta. Given the positive experience of the participants, the Committee on International Activities requested that the Board consider a second conference. The Board VOTED to approve Society sponsorship and involvement with a second international conference on research and education in the Middle

continued on next page

National Meeting, continued from previous page

East. The conference is expected to take place in 2005.

A Society Public Outreach Project

In 2002, the Society embarked on a project with NOVA and other organizations for the development of a film biography recognizing the contributions of Percy Julian to the advancement of science. In anticipation of the 2005 release of this documentary, the Board VOTED to appoint a board task force to explore ways to organize and plan a prescreening event of the Julian Biography Project and to develop estimates as to cost, number and nature of guests, and type of program. The Board anticipates receiving a report from the task force at its June meeting.



Future Programs

The 2004 Fall National Meeting will be held in Philadelphia. The meeting will feature multidisciplinary sessions on the following topics: "Strategic responses to Changing Needs in Doctoral Education," "Viruses as Chemical Entities," "Designing Materials for Product Success," "Fuels for the Future: Leading the Way with Chemistry," and "Open Access and Peer Review." More information about future meetings can be found at www.acs.org/meetings.

For information, suggestions or questions regarding any of the topics in this report (or any other ACS business), please contact any of your Councilors. We'd love to you're your ideas and opinions.

Bonnie Charpentier



CHAL's chocolate and T-shirt drawing winners!

2004 Synopsys Championship

This year's Synopsys Championship was held at the San Jose Convention Center on Wednesday, March 17th. This regional science fair program is sponsored primarily by Synopsys and its Outreach Foundation and focuses on the all aspects of science and engineering (see <http://www.outreach-foundation.org/about.html> and www.synopsys.com). The projects for seventh and twelfth graders were primarily for first-time science fair participants to encourage them to proceed further in the state and international fairs. About 600 students participated with a variety of science and engineering projects.

This year was the first that the ACS Santa Clara Valley as a local section had its own special chemistry awards program. Jack Riley, Bruce Raby, and Howard Peters were the ACS judges. Volunteer category judges in chemistry also included section members Michael Hughes (a chemical patent attorney in Santa Clara) and Don Green (a past-Chair and Councilor). We apologize if other Santa Clara Valley ACS members who were judges may have been overlooked. Please let us know for a correction in a later issue.

Paramount Great America provided the venue for the awards ceremony



Bruce Raby, Jack Riley, and Howard Peters as judges at the Synopsys Championship.

on Palm Sunday, April 4 - with free parking and free admission for all Synopsys Championship award winners, their teachers and judges. Before and after the awards programs, the attendees had the run of the theme park. After an introduction by the Chairman and CEO of Synopsys, Dr. Aart de Geus, the middle school awards in the early afternoon were presented by representative of local non-profit organizations. Later in the afternoon, George Lechner, our section's 2004 Chair, presented our ACS awards to eight high school students as follows:

First Place-\$500

- Samantha Tran & Kristina Tubera (Presentation High School), "The Physical Chemistry of the Ice Spikes Phenomena"

Second Place-\$200

- Michael Shahbaz (Leigh High School), "Biological reduction of Metals"

Third Place-\$100 (Shared)

- Todd Karin (Los Gatos High School), "Calcium Oxalate as a Protector of Marble"
- Jatinder Sandhu (Oak Grove High School), "The Essence of Fluorescence"
- Mickey Lee, Maverick Tran and Danny Truong (Oak Grove High School), "Tracking Contamination Using Caffeine"

Some of these winners will proceed to the Intel Intentional Science and Engineering Fair (ISEF) to be held in Portland, OR on May 9-16, where a total of about \$3,000,000 is scholarship and grant awards will be available.



Most of the ACS Science Fair winners with George Lechner.

Sciencepalooza Wrap-up

This year's Sciencepalooza was held at the Santa Clara County Fairgrounds on Saturday, February 29. A program sponsored primarily by Synopsys and its Outreach Foundation



Bruce Raby and Howard Peters were judges at Sciencepalooza.

focuses on the diverse East Side Union High School District (see <http://www.outreach-foundation.org/about.html> and www.synopsys.com). The projects for seventh and twelfth graders are primarily for first-time science fair participants to encourage them to proceed further in the mainstream local fairs. About 600 students participated with a variety of science and engineering projects. At noon, the awards were presented by Susan Hammer, the Foundation President and former Mayor of San Jose.



Three sophomore students demonstrating a functioning hovercraft capable of levitating an adult.

CHEMPLOYMENT ABSTRACTS MAY 2004

CHEMPLOYMENT ABSTRACT 3733

Position Title: Lecturer (Part-Time)

Job Description: A part time instructor is needed to teach general chemistry lectures (Chem 11 & 12), non-science major chemistry lecture and lab (Chem 2 & 19) and a descriptive inorganic chemistry lecture and lab (Chem 14) at Santa Clara University for one academic year beginning Fall, 2004.

QUALIFICATIONS DESIRED

Education: Ph.D. minimum qualification.
Experience: Prior teaching experience strongly preferred.

LOCATION, SALARY, MAIL ADDRESS

Location: Santa Clara
Salary: \$26,400 for six course equivalents
Employer Description: Santa Clara University is an equal opportunity/affirmative action employer, and welcomes applications from women, persons of color, members of other historically under-represented groups, persons with disabilities, veterans and Jesuits.

Application Instructions: Send curriculum vitae, undergraduate and graduate transcripts, statement of teaching interests, philosophy and qualifications, and 3 letters of recommendation by May 14, 2004 to Dr. Steven L. Fedder
Department of Chemistry
Santa Clara University
500 El Camino Real
Santa Clara, CA 95053-0270

CHEMPLOYMENT ABSTRACT 3734

Position Title: Lecturer (Part-Time)

Job Description: A part time instructor is needed to teach general chemistry lecture (Chem 11), physical chemistry lecture (Chem 152) and lab (Chem 154), and Computer Applications in Chemistry (Chem 120) or Chemistry in the Modern World (Chem 002) at Santa Clara University for one academic year beginning Fall 2004.

QUALIFICATIONS DESIRED

Education: Ph.D. minimum qualification
Experience: Prior teaching experience preferred

LOCATION, SALARY, MAIL ADDRESS

Location: Santa Clara
Salary: \$26,400 for six course equivalents
Employer Description: Santa Clara University is an equal opportunity/affirmative action employer, and welcomes applications from women, persons of color, members of other historically under-represented U.S. ethnic groups, persons with disabilities, veterans, and Jesuits.

Application Instructions: Send curriculum vitae, undergraduate and graduate transcripts, a statement of interest and experience in teaching these or related subjects, and two letters of recommendation by May 14, 2004 to
Dr. Julie Mueller
Department of Chemistry
Santa Clara University
500 El Camino Real
Santa Clara, CA 95053.

CHEMPLOYMENT ABSTRACT 3735

Position Title: Lecturer (Part-Time)

Job Description: Two part-time instructors are required to teach laboratory sections in lower-division organic and general chemistry courses at Santa Clara University for one academic year, beginning Fall, 2004. Expected teaching load is five (5) laboratory sections in the fall quarter, three (3) in the winter, and two (2) in the spring. For additional information visit www.scu.edu/chemistry.

QUALIFICATIONS DESIRED

Education: M.S. required, but Ph.D. strongly preferred.
Experience: Previous teaching experience is desired.

LOCATION, SALARY, MAIL ADDRESS

Location: Santa Clara
Salary: \$26,400 for ten laboratory sections
Employer Description: Santa Clara University is an equal opportunity/affirmative action employer and welcomes applications from women, persons of color, members of other historically under-represented U.S. ethnic groups, persons with disabilities, veterans, and Jesuits.

Application Instructions: Send CV, undergraduate and graduate transcripts, three letters of recommendation, and cover letter by May 14, 2004 to
Dr. Michael R. Carrasco
Laboratory Search Committee, Chemistry Department
Santa Clara University
500 El Camino Real
Santa Clara, CA 95053

CHEMPLOYMENT ABSTRACT 3736

Position Title: Research Associate

Job Description: Perform lab synthesis of organic molecules, the preparation of intermediates for the synthesis of these molecules, and the development of new methods for the synthesis of the compounds. Apply modern techniques of organic synthesis including a variety of organic reactions at several scales, microwave chemistry, inert atmosphere techniques, etc.

QUALIFICATIONS DESIRED

Education: MS/BS in organic chemistry
Experience: M.S./B.S. in synthetic organic chemistry, medicinal chemistry, with 0-5 years of industrial experience involving drug discovery. Good knowledge of principles of modern synthetic chemistry is desirable. Strong organizational, communication and interpersonal skills are critical. Must be a highly motivated independent productive team player.

LOCATION, SALARY, ADDRESS

Location: Menlo Park, CA
Salary: Competitive compensation and benefits package
Description of Employer: Nanosyn is a chemistry-based company, specializing in the design, synthesis and analysis of novel small molecule compounds for pharmaceutical and biotechnology companies. Nanosyn is based on proprietary technology and uses advanced automation instrumentation to perform research synthesis projects.

Application: Please e-mail your resume to info@nanosyn.com or fax: 650-853-7031

CHEMPLOYMENT ABSTRACT 3737

Position Title: Product Specialist R&D

Job Description: Serve as customer interface & use your domain knowledge in chem proc sciences to have a large impact in a young and vibrant pre-IPO company. Reporting initially directly to the CEO, the Product Specialist will work with the VP Business Development & interface with sales, consulting & product management personnel within the consulting and product management personnel within the company & will supervise project work on a matrix basis. The Product Specialist will serve as an expert for clients & internally for the company.

QUALIFICATION DESIRED

Education: An undergraduate degree in organic chemistry, chemical engineering, chemistry of allied technical discipline is required. A Ph.D. would be a plus.
Experience: We seek people with over five years pharmaceutical industry experience in chemical process research & development.

LOCATION, SALARY, ADDRESS

Location: San Francisco
Description of Employer: Our venture-capital backed client has developed a Product Conformance Management Solution that provides for product traceability, improved decision making to get drugs to market.

Application Instructions: Please call Toby Freedman, Ph.D. at BioQuest at 415-777-2422 or by email at freedman@bioquestinc.com.



George Scangos, President and CEO of Exlixis, Inc. speaks at the meeting.

March Dinner Meeting

March 18, 2004



George Lechner, Chair of Santa Clara Valley Section, ACS introduces George Scangos.



Abby Kennedy of Exelixis, Inc. welcomes guests.



Left to Right: Lee Latimer (California Section Chair), Abby Kennedy, George Lechner, and George Scangos at the meeting.



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

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MAY 2004 NEWSLETTER TOPICS:

Good Food - Great Wine - Interesting People
Chair's Message
227th ACS National Meeting Councilor's Report
2004 Synopsys Championship
Sciencepalooza Wrap-up

CHEMPLOYMENT ABSTRACTS

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

SANTA CLARA VALLEY SECTION

2004 Section Officers

Chair: **George Lechner** 408-226-7262 george.lechner@usa.xerox.com
Chair-Elect: **John F. Riley** 650-328-4036 jfriley@atdial.net
Secretary: **Karl Marhenke** 831-479-6263 karlmar@armory.com
Treasurer: **Hong Gao** 650-564-5197 hong.gao@alza.com
Past-Chair: **Maureen Scharberg** 408-924-4966 scharbrg@pacbell.net

Councilors

2002-04: **Bonnie Charpentier** 650-948-3931 charpentierbon@yahoo.com
2002-04: **Herb Silber** 408-924-4954 hbsilber@sjsuvm1.sjsu.edu
2003-05: **Maureen Scharberg** 408-924-4966 scharbrg@pacbell.net
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2004-06: **Linda Brunauer** 408-554-6947 lbrunauer@scu.edu
2004-06: **Sally Peters** 650-812-4994 sally.peters@parc.com
2004-06: **Peter Rusch** 650-961-8120 pfrusch@aol.com

Alternate Councilors

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2004-06: **Carol Mosher** 650-322-3120 cmosher2@aol.com
2004-06: **Ernest Gargas** 408-365-2866 eggargas@yahoo.com

Newsletter

Editor: **Laura Jarvis** 650-210-1242 editor@scvacs.org

ChemPloyment Abstracts

Director: **Shirley B. Radding** 408-246-2564 sradding@att.net

FUTURE MEETINGS

- May 10-12** Intel International Science and Engineering Fair
Portland, OR
- May 16-19** ACS ProSpectives Emerging Opportunities for Chemical and BioSensing
Santa Fe, NM
- Jun 6-9** BIO 2004 Annual Int'l Convention
San Francisco, CA
- Jun 26** Annual SCVACS Award Program/
Picnic/Wine Tasting
Stanford University
- Sep 16** SCV Dinner Meeting
Chemistry and Industrial Hygiene
William Wells
Palo Alto, CA
- Oct 17-23** National Chemistry Week
- Oct 27-30** Western Regional Meeting
Sacramento, CA

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



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