

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 26 No. 12

Chair's Message

Be sure to sign up for the January dinner meeting on our website. The location is the Basque Cultural Center in South San Francisco. Dr. Paul Anderson, the 2004 Mosher Award recipient, will be the guest speaker. His talk will be about what goes on in Drug Discovery and it promises to be very interesting and worthwhile. Let's start 2005 with your presence at this and other Section activities as the year goes by!

Back to 2004...this has been an interesting and exciting year for our Section and for me, too. There was a focus of chemistry and its influence on disease and health during National Chemistry Week but also in the theme of many of our dinner meeting speakers, such as Rogue Proteins and Mad Cow Disease, Industrial Hygiene and how to make our workplaces healthy places, and oh yes, the Chemistry and Mystique of Chocolate. I would hope that topics like these could continue to provide deeper insights on how chemistry affects us in our daily lives. Let us know what YOU would like to hear about.

Below are many (there are more) of the projects and committees that make our local section successful. To have these continue though, we need your HELP! Please consider joining us to support the Section with your ideas, suggestions, and personal expertise. I hope and trust that you receive personal benefit from your association with ACS and can see yourself as an

"active" member.

Teachers' Workshop

Chemistry Olympiad

Women Chemists Committee

Student Affiliates

Buchser Middle School Science Dept.

Fire and Assistance

Minority Affairs Committee

Science Palooza

Joint Meetings and activities with

California Section, ACS, AIChE & ANS

National Chemistry Week

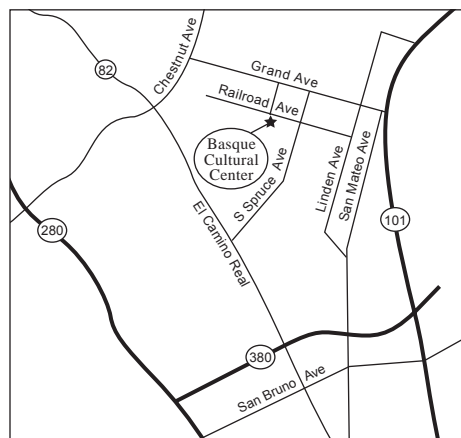
Sally Ride Science Festival

Summer Wine Tasting and Picnic with honors for our 50-year and older members

Harry and Carol Mosher Award,

Shirley B. Radding Award, Ottenberg Award

continued on next page



January Dinner Meeting

Date: Thursday, January 20, 2005

Time: 6:00 pm Registration and Social
6:45 pm Dinner Starts
8:00-8:15 pm Speaker set up and talk
9:00-9:15 pm Adjourn

Location: Basque Cultural Center
599 Railroad Avenue
South San Francisco, CA
650-583-8091

Speaker: Dr. Paul Anderson, 2004 Mosher Award Recipient

Cost: \$27.00 for Dinner.
Free for presentation only.

Menu: Entrée choice of Salmon with Champagne sauce, Breast of Chicken Chasseur, or Vegetarian Pasta. Served with soup, salad, bread, ice cream for dessert, and coffee.

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

Reservations should be made by Friday, January 14th, stating your name, address, company affiliation, and number in party.

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

Receive the Newsletter Early!

See <http://www.scvacs.org/newsletter/> for details.

Finance

Executive Committee

(Or, another committee or focus group that you want to start)

December marks the end of my service to the Section as Chair. I want to thank all those who have assisted our members and me with their active participation in Section activities. Without your help, the Santa Clara Valley Section and ACS would not be what we are—a premier science society of outstanding chemists and chemical engineers. Jack Riley will be taking on the Chair's role in January and I wish him well.

Check out www.scvacs.org.

See you at our next meeting.



Volunteer Opportunity Public Relations Committee

We are planning to establish a small team within the local section to plan and manage public relations. The goal of the new committee is to achieve better communication with our target groups and to create cooperative efforts to better serve our members and the community. We want to help put the positive contributions of chemistry in the news, and work for better science literacy throughout our communities. The target groups we wish to reach are the following:

- Section members and other scientists
- The lay public (community outreach)
- The media

We're especially interested in creating new initiatives with groups we haven't worked with before. We also need to establish more effective and organized relationships with the media. If you have an interest in communications, public outreach, or are passionate about science, please contact Bonnie Charpentier via email at charpentierbon@yahoo.com or phone 650-472-2142 (office) to talk about the Public Relations Committee.

Volunteer Opportunity: Project SEED

The 2005 Project SEED Program is in the beginning stages and needs your help! The local section is looking for a scientist/mentor that can lead this program.

Project SEED is an ACS social action program that places economically disadvantaged high school students in academic, industrial, and governmental research laboratories for eight-to-ten weeks during the summer. For over 35 years, Project Seed has helped high school students expand their career outlook and provide opportunities for students who historically lack exposure to scientific careers.

Project SEED offers high school students two exciting research opportunities:

- The Summer I program will provide first-time participants (rising juniors and seniors) a fellowship award of \$2,275.
- A second-year program, Summer II, provides Project SEED Summer I students with an additional summer of scientific research. These students will receive a fellowship award of \$2,600. Additionally, Summer II students will be eligible

for a travel grant of up to \$100 to present their research at an ACS or other scientific meeting contingent on available funds.

The deadline for receipt of Summer I and II applications is February 1, 2005.

Each student does a scientific research project in chemistry or related field under direct supervision of a scientist/mentor. The students must be economically disadvantaged, must be enrolled in high school and must have taken one year of high school chemistry. Student selection is the responsibility of the participating institution. However, participating institutions must follow guidelines set by the ACS and select only those students who qualify as economically disadvantaged; approval by the ACS SEED office prior to beginning summer research is required.

If this sounds interesting and you want to learn more, the Project SEED Manual is available on the Internet at: www.chemistry.org/education/seed.html. Furthermore, contact Herb Silber of our local section for getting started (hbsilber@sjsuvm1.sjsu.edu, 408-924-4954)!

Student Career Coaching: Volunteers Needed

The Santa Clara Valley Section is working with the ACS California Section and the AIChE Northern California Section to develop training for volunteers to become Student Career Coaches. The team is also putting together materials to be used in workshops for students. Volunteer training will be held early next year, and teams of coaches will be formed to visit college campuses and hold workshops with students on interviewing skills, resume preparation, and job search strategies. The primary focus is to provide students the opportunity to practice their interviewing skills. Volunteers are welcome in the following areas:

- Train to be a coach
- Help set up volunteer training venues
- Organize materials, supplies and food for volunteer trainings

- Contact schools to arrange student workshops
- Organize materials, supplies and food for student workshops
- Help with advertising for student workshops
- Work with students on resume reviews – either in person or via email

If you are interested in any of the above jobs or have any suggestions or questions about the program please contact Bonnie Charpentier at charpentierbon@yahoo.com. Details about location and time of training will appear in future newsletters and on the Section web site. Please consider becoming a coach or helping behind the scenes with arrangements – the next generation of scientists needs your help.



Teach the Teachers A Continuing National Chemistry Week Success

The partnership of Roche with the Santa Clara Valley Section once again resulted in a successful workshop on November 6 for elementary and middle school teachers. A generous grant from Roche Palo Alto allowed us to provide the day long workshop, including materials and meals, free of charge to teachers. The work of many dedicated volunteers from Roche and from the local Section, and the teaching prowess of our super-teachers Juanita Ryan and Laura Randall provided teachers education and fun. We are very grateful to Juanita and Laura who spent many hours preparing their presentations



Roche VP of Chemistry, Hans Maag, welcomes the teachers.



Workshop instructor, Juanita Ryan, discusses the key points in the workshop.



Workshop instructor, Laura Randall, works with the teachers on the glucose test.

and materials and shared their expertise and zeal. The theme of NCW this year, Health and Wellness, was especially appropriate for the location on the Roche campus. Teachers performed hands-on experiments and were given materials to take back to the classroom to perform the experiments with their students. Teachers were also given books, class sets of Celebrating Chemistry and ChemMatters and other resource materials.

Knowledgeable scientists led the tours of Roche labs during the afternoon. The day concluded with a free raffle of materials for use in the classroom.

The workshop has been a highlight of our National Chemistry Week celebration since 1996. A new theme each year and the enthusiasm of the teachers and volunteers have kept the



Participating teachers performing numerous tests and learning new ideas to bring back to their class!

2005 ACS Santa Clara Valley Section Election Results

Chair-Elect: David Parker

Secretary: Karl Marhenke

Treasurer: Hong Gao

Councilors (2005-2007):

Bonnie Charpentier

Herb Silber

Alternate Councilors (2005-2007):

Lois Durham

Mark Kent

program vibrant. Thank you to the volunteers who gave their time (including a beautiful Saturday) to prepare and carry out the workshop. We're already planning for next year.

*Bonnie Charpentier
Councilor*



Editor's Corner My Last Issue

Fellow members and colleagues...

I am happy to tell you that I have been admitted into graduate school for a Masters in Chemistry, with a Biochemistry emphasis! I will begin my academic year, promptly, in January 2005 at California State University - Hayward. Regrettably, I will need to resign my editorship of over three years to focus on my studies. Thus, this is my last issue. As I look back on my responsibilities, I was given a wonderful opportunity to meet and gain new professional friends. I am very thankful. I have thoroughly enjoyed my time as editor and look forward to more volunteer possibilities with the local section once my academic stint is over.

As of the January 2005 issue, help me welcome Carlene Freeman, the new editor! She has eagerly volunteered to step in. I believe she will be able to keep the newsletter in top shape, if not more.

Until later, become a volunteer, happy holidays, and best wishes on your future chemistry endeavors!

Stipend Increase Impacts Project SEED Filling Beakers wins over Flipping Burgers

High school students who participate in the Project SEED program <http://chemistry.org/education/seed.html> will now have a more financially rewarding summer in addition to their 8-week lab experience. The Committee on Project SEED approved a significant increase in the student stipends, after examining high school student summer employment wage options at fast food restaurants and retail stores. Starting in 2005, Summer I students will receive \$2,275 and Summer II students \$2,600 which represents a 30 percent increase over last year's stipend.

Project SEED is designed to ensure that students from economically disadvantaged backgrounds have opportunities to experience the challenges and rewards of the chemical sciences. The program now sponsors nearly 400 students annually in summer hands-on lab research guided by scientist-mentors all over the country, from labs at Memorial Sloan-Kettering in New York City to ChevronTexaco in Richmond, California.

Committee Chair, Mitchell Bruce, states "This outstanding program has impacted more than 7,000 students and their families over the past 36 years. The decision to raise SEED stipends has a significant effect on the program's ability to reach students with demanding financial imperatives. Our challenge in the years ahead is to continue to grow the program while remaining competitive with other options students may have for summer employment. I know we will be able to meet the challenge with the ongoing and increased support of our loyal ACS SEED Donors."

You can make a gift to Project SEED today. Add a Project SEED voluntary contribution to your ACS membership renewal http://chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=siteinfo\renewal_information.html visit ACS Giving <http://acs.org/gifts> or call Mary Bet Dobson at 1-800-227-5558, Ext. 4094 for more information on how to make a gift or pledge.



National Chemistry Week and Founder's Luncheon with Bill Carroll



CHEMPLOYMENT ABSTRACTS DECEMBER 2004

CHEMPLOYMENT ABSTRACT 3763

Position Title: Staff Scientist

Job Description: Synthesis and development of processes used in the manufacturing of electro and photoactive materials. Physical and chemical characterization of organic and inorganic nanomaterials.

QUALIFICATIONS DESIRED

Education: MS or PhD in polymer or inorganic chemistry or related discipline., with strong interdisciplinary skills.

Experience: At least 3-5 yrs of hands-on bench synthesis experience. Good knowledge of principles of modern synthetic chemistry, lead optimization & structure activity relationship is essential. Knowledge & experience with organometallic reagents.

Experience performing electrochemistry and photochemistry. Knowledge of absorption spectroscopy, emission spectroscopy & modern chromatographic techniques.

LOCATION AND MAIL ADDRESS:

Location: Fremont

Description of Employer: UltraDots, Inc. Is a nanomaterial/nanotechnology based company.

Application Instructions: Please email your resume to jobs@ultradots.com

CHEMPLOYMENT ABSTRACT 3764

Position Title: Research Information Specialist

Job Description: Focus on providing answers to critical projects using information available online, from consultants, & from print sources, both in response to requests from clients, & as the information member of project teams in discovery research. Perform detailed patent/scientific literature search & demonstrate the ability to interpret, analyze, & integrate relevant patent related issues, including patentability, infringement & validity.

QUALIFICATIONS DESIRED

Education: PhD in org or med chemistry

Experience: Online search experience in a R&D environment, with demonstrated ability & desire to learn more (i.e. a super-user within the lab (e.g. using Dialog, STN, Questel, Crossfire, SciFinder or other web-based end user tools) or ability in searching patent resources (Derwent, CAS, Inpadoc, and Markush Searchable Patent Files).

LOCATION, SALARY, ADDRESS

Job Location: Foster City, California

Employer Description: Gilead Sciences is a biopharmaceutical company that discovers, develops and commercializes therapeutics to advance the care of patients suffering from life-threatening diseases worldwide.

Application Instructions: Contact Us: Gilead Human Resources, 333 Lakeside Drive, Foster City, CA 94404 - www.gilead.com - Job. Ref: AF4-285 - karen.duffy@gilead.com

CHEMPLOYMENT ABSTRACTS 3765

Position Title: Process R&D Research Associate, Process Chemistry

Job Description: We are seeking a self-motivated, creative & independent thinking individual to conduct early process development & large scale synthesis of preclinical drug substances.

QUALIFICATIONS DESIRED

Education: Requires a MS in synthetic organic chemistry/BS with a minimum of 2-4 yrs of proven industrial exp in process chemistry.

Experience: Will develop & implement effective procedures for scale-up, supporting the production of bulk intermediates & APIs & technology transfer to CMO/CRO. Advanced knowledge of analytical procedures, good oral & written communication skills are also essential.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco

Description of Employer: Theravance is an established pharmaceutical company focused in the research & development of novel human medicines.

Application Instructions: For immediate consideration for this job opening please email your resume to resumes@theravance.com, referencing job code: 04-047

CHEMPLOYMENT ABSTRACTS 3766

Position Title: Chemical Engineer

Job Description: We are seeking a highly motivated & talented individual to develop novel ideas & devices for use in the synthesis and testing of new materials on small scales.

QUALIFICATIONS DESIRED

Education: M.S. chem engg or related field of science.

Experience: This position requires 2 years experience with a strong analytical/ theoretical background in the topics of heat transfer, mass transfer, fluid dynamics, and reaction engineering. Add'l exp. in the design & analysis of systems used in the areas of physical properties testing, reaction engineering, and/or analytical chemistry. Hands-on exp in the design and manufacture of microfluidic & MEMS devices is preferred & experience with computational methods of CFD and/or FEM is a plus.

LOCATION, SALARY, MAIL ADDRESS

Location: Santa Clara, CA

Salary: Competitive

Description of Employer: Symyx specializes in the development of novel high throughput research methods and screening technology. In collaboration with approximately 20 industrial partners, Symyx designs and executes research programs for the discovery and optimization of novel materials and catalysts.

Application Instructions: Please submit your resume to hrstaffing@symyx.com referencing job code SESB-4.

CHEMPLOYMENT ABSTRACTS 3767

Position Title: Research Associate

Job Description: Seeking to add a new member to the high throughput catalyst screening team. This group consists of Organic, Organometallic and Analytical chemists that work closely together to develop and execute high-throughput catalyst research programs. Members of the team design & execute array based organo- metallic synthesis and screening protocols employing state of the art library design software, robotics and parallel reactor technology to discover and develop new catalyst families.

QUALIFICATIONS DESIRED

Education: M.Sc. in Chemistry

Experience: Exp in the areas of synthesis, anal chem & organometallic chem is particularly valued, but not a prerequisite for consideration. Excellent communication & organizational skills are essential

LOCATION, SALARY, MAIL ADDRESS

Location: Santa Clara, CA

Salary: Competitive

Description of Employer: Symyx specializes in the development of novel high throughput research methods and screening technology. In collaboration with approximately 20 industrial partners, Symyx designs and executes research programs for the discovery and optimization of novel materials and catalysts.

Application Instructions: Please submit your resume to hrstaffing@symyx.com referencing job code PCTV-4.

CHEMPLOYMENT ABSTRACT 3768

Position Title: Staff Scientist

Job Description: The Homogeneous Catalysis Group consists of Organic, Organometallic and Analytical chemists that work closely together to develop and execute high-throughput catalyst research programs. We seek a new member to the org synthesis team. Members of the organic team develop novel chemical approaches to diverse ligand frameworks, execute micro-scale library-based and individual ligand syntheses, & support the scale-up syntheses of ligands for lead compound development.

QUALIFICATIONS DESIRED

Education: Ph.D. in Chemistry

Experience: Possess very strong organic synthesis skills. Exp in the areas of library-based combinatorial small molecule syntheses, ligand design, and homogeneous catalysis is particularly valued, but not a prerequisite for consideration

LOCATION, SALARY, MAIL ADDRESS

Job Location: Santa Clara, CA

Salary: Competitive

Description of Employer: Symyx specializes in the development of novel high throughput research methods and screening technology. In collaboration with approximately 20 industrial partners, Symyx designs and executes research programs for the discovery and optimization of novel materials and catalysts.

Application Instructions: Please submit your resume to hrstaffing@symyx.com referencing job code PCTV-3.

CHEMPLOYMENT ABSTRACTS 3769

Position Title: Process Economics Program Consultant

Job Description: SRI Consulting is looking for a chemical engineer to join its Process Economics Program (PEP) as a consultant. PEP develops models and costs commercially-viable process designs for the chemical and other major industries, and conducts private research and process evaluations for individual clients.

QUALIFICATIONS DESIRED

Education: A degree in chem engineering.

Experience: The successful candidate will preferably have a degree in chem engng & 3-5 years of experience in evaluating chem process technologies with a major chemical company. Excellent written and verbal communication skills as well as experience with relational databases are required. Knowledge of AspenPlus and other process design and simulation software is an advantage.

LOCATION, SALARY, MAIL ADDRESS

Location: Menlo Park, CA 94025

Salary: Depending on Experience

Description of Employer: SRI Consulting is a division of Access Intelligence, LLC. With offices in Menlo Park, CA, Houston, TX, Zurich, Beijing and Tokyo, SRI Consulting is world-renowned for its subscription-based consulting services.

Application Instructions: Sandi Lucas
SRI Consulting
slucas@sriconsulting.com
ph: 650.384.4318 fax: 650.384.4273

CHEMPLOYMENT ABSTRACTS 3770

Position Title: Chemical Industry Consultant

Job Description: A professional whose responsibility will include researching chem markets & writing market research repts on the chem ind for the Chemical Economics Handbook. Responsibilities include providing advisory services to clients & customer service liaison; marketing reports and program to prospective clients; maintaining existing databases; and attending conferences in your specialized area.

QUALIFICATIONS DESIRED

Education: BS or BA in Chem or Chemical Engng or biol sciences; an MBA is a plus.

Experience: A min of 2-5 years exp in market research and/or marketing; the ability to critically analyze and formulate conclusions, combined with knowledge of database & literature search; a self-starter & team player that is flexible & can handle a variety of assignments under time & budget constraints with minimal supervision. Excellent written & oral communication and computer skills are also required.

LOCATION, SALARY, MAIL ADDRESS

Location: Menlo Park

Description of Employer: SRI Consulting (SRIC) is the world's leading business research publication service for the international Chemical Industry.

Application Instructions: Sandi Lucas
SRI Consulting
slucas@sriconsulting.com
Phone: 650-384-4318 Fax: 650-384-4273

Leading Together - The new quarterly newsletter for local sections

Are you interested in tips and tools to help make your local section more meaningful to the membership? Do you like to find out about great activities that other local sections are involved in? Are you considering adopting a form of technology to serve your Section? Would you like to know more about the programs and services that ACS can offer to your local section?

All this and more can be found in each issue of the new quarterly newsletter "Leading Together" designed specifically for ACS members that are interested in further engaging their local section.

- Where is the newsletter? The newsletter is 100% electronic and can be found at: http://membership.acs.org/localsections/leading_together/
- Who should subscribe? Any local section member interested in local sections and leadership development
- How much does it cost? It is free and is distributed once every four months.
- How do you subscribe? Email olsa@acs.org and include "Subscribe Leading Together" in the subject line of your message.

ACS Scholars Program Now Accepting Applications

The American Chemical Society Scholars Program is now accepting applications for the 2005-2006 academic year. Application forms and instructions can be downloaded from our web site - www.cbchemistry.org/scholars, by e-mail to scholars@acs.org, by calling 1-800-227-5558, ext. 6250, or by writing to American Chemical Society Scholars Program, 1155 16th Street, N.W., Washington, D.C. 20036. Approximately 100 new scholarships valued at up to \$3000.00 per academic year will be awarded. The deadline will be March 1, 2005.



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

Non-Profit
Organization
U.S. Postage
PAID
Permit No. 344
Palo Alto, CA

DECEMBER 2004 NEWSLETTER TOPICS:

Chair's Message
January Dinner Meeting
Volunteer Opportunity: Public Relations Committee
Volunteer Opportunity: Project SEED
Student Career Coaching: Volunteers Needed
Teach the Teachers:
Continuing National Chemistry Week Success
2005 ACS Santa Clara Valley Section Election Results
Editor's Corner
Stipend Increase Impacts Project SEED
ACS Scholars Program

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 jgao@alzus.inj.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
2003-05: **John F. Riley** 650-328-4036 jfriley@atdial.net
2003-05: **Ean Warren** 650-329-4554 ewarren@scvacs.org
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

2002-04: **Mark Kent** 408-736-0989 makent@earthlink.net
2003-05: **David Parker** 408-615-4961 dparker@ci.santa-clara.ca.us
2003-05: **Laura Jarvis** 650-210-1242 lj Jarvis@scvacs.org
2003-05: **Asfia Qureshi** 408-732-1705 asfiaq@yahoo.com
2004-06: **George Lechner** 408-226-7262 george.lechner@usa.xerox.com
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

ChemEmployment Abstracts

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

FUTURE MEETINGS

Dec No SCV Dinner Meeting
Jan 20 SCV Dinner Meeting
Mosher Award Presentation
Dr. Paul Anderson
Jan 23-29 Winter Conference on Medicinal
and Bioorganic Chemistry
Steamboat Springs, CO
Feb 6-9 ACS ProSpectives
Process Chemistry in the
Pharmaceutical Industry
Miami, FL
Feb (TBD) SCV Dinner Meeting
Mar 13-17 ACS National Meeting
San Diego, CA

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



Printed on
recycled paper.