

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 27 No. 2

Chair's Message

Communication is my topic for this month. There are many ways to communicate; sight, sound, touch, signal, read, write, print, contact, transmit, send, receive, record, and the list goes on...

Implicit in the concept are "between", "more than one" and "knowledge". For my purpose let's focus on getting to know the other readers of the Silicon Valley Chemist.

The readers of the Newsletter share an education and interest in chemistry/chemical engineering. They are members or affiliates of the American Chemical Society, the largest scientific society (159,000), which celebrated 125 years of growth and service. Publisher of the unique Chemical Abstracts Services and 30 scientific Journals, the ultimate

database of chemical information.

We can combine communication and outreach. There are four student-affiliate chapters in our territory. They are not ACS members, hence the label "Student Affiliate". To increase contact, we have been inviting student-affiliates from the chapter to our dinner meetings. I propose that we make them Local Section Affiliates and mail each a monthly copy of the Silicon Valley Chemist. They represent good prospects for ACS membership when they graduate. Let's reach-out to them, welcome them and get to know them by increased communication.

In a future Newsletter, members and affiliates will be surveyed for your opinion of our needs, as you see them.

March Dinner Meeting

Date: March 24, 2005

Time: 6:00 PM Social Hour
7:00 PM Dinner
8:00 PM Lecture

Location: Palo Alto Elks Lodge
4249 El Camino Real
Palo Alto, CA 94306

Speaker: Dr. Brandon Brown
Topic: Electoreception in Elasmobranchs

Cost: \$17.00

Menu: To be posted at
www.scvacs.org

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

Please join Professor Brandon Brown in his presentation about the study of electoreception in elasmobranchs. Not familiar with this study?



Dr. Brown's research pertains to a mysterious gel located under the skin of sharks, skates and rays. His work on these gels suggests these animals have the natural equipment to detect very small temperature changes in the water, which leads to hypotheses about the hunting, mating and moving

continued on next page

February Dinner Meeting Reminder

On February 17th, join Jason Stewart and Steven Seligson of Smith Barney, to learn how you can start planning for your retirement. Whether you are just starting your professional career or plan on retiring in the next five years, Jason and Steven will show you how you can create savings strategies that are tailored to your unique requirement needs.

We will convene at the Elks Club in Palo Alto, which is located at 4249 El Camino Real, starting at 6:00 p.m. for registration and social hour and 7:00 p.m. for dinner. The \$17.00

dinner includes Roast Beef with garlic mashed potatoes, mixed vegetables, spinach salad, dinner rolls and peach cobbler for dessert. Coffee and tea are included as well.

Steven Seligman's presentation will begin promptly at 8:00 p.m. If you choose to solely attend the talk, no fee will be charged.

Please make your reservations by
continued on next page

Receive the Newsletter Early!

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

March Dinner Meeting continued from front page
habits of sharks. For more information on Dr. Brown's research prior to the dinner, please visit

<http://www.usfca.edu/physics/faculty/brown/brandon.html>

Reservations should be made by March 21st 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 the March 22nd, you will be invoiced following the dinner meeting.

(Look for further details of the meeting to be printed in the March issue and on our website.)

Reminder, continued from front page

Monday, February 14th, either online at www.scvacs.org or by contacting Shirley Radding (408-246-2564 or 408-296-8625 FAX). Reservations should state your name, address, company affiliation, and the number of people in your party. If you are unable to honor your reservation and do not call to cancel by Monday, February 14th, you will be invoiced following the dinner meeting.

Abstract: *Planning Your Retirement*

- Financial Planning
- Four Steps to Planning
- Define Your Goals
- Establish and Implement
- Three Basic Investment Classes
- Combining the Pyramids
- Sources of Retirement Income
- Prudent Retirement Planning

The Importance of Diversification in Volatile Markets

Because the market performed so well during the 1990's, many investors were led to believe that stocks continually rise and rarely fall. More recently, however, market performance has been disappointing as major market benchmarks -- such as the S&P 500 Index -- have become much more volatile.

At times like these, it is important to put the market's rising and falling trends in the proper perspective. Many widely accepted "facts" about market volatility are actually incorrect. Market cycles have led investors to often chase last year's best performing

asset class, leading to investment returns that have fallen far short of their goals.

The market's only constant is change. Today, investors must face the process of gathering, assessing and evaluating all aspects of financial data—and then turning that data into long-term investment strategies.

Smith Barney's Consulting Group has been providing personalized investment services for more than three decades and has gained a reputation as a leader in the field of manager research and asset allocation advice. By seeking to understand the future, you can anticipate market trends and find ways to plan ahead.

Smith Barney's Consulting Group Asset Allocation Committee meets monthly to review global economic, market and other financial and statistical data. This committee is comprised of senior Consulting Group professionals, and noted authorities from academia and advisors from other investment organizations.

Diversification is the key to prudent investing, and portfolio optimization is the key to prudent diversification. The Asset Allocation Committee's job is to design efficient portfolios -- that is, the portfolios most likely to produce the highest return for any given level of risk.

But once the asset allocation decision is reached, implementing the strategy can be challenging. The Consulting Group's asset allocation process begins with a determination of an investor's risk profile. To construct the model portfolio, Consulting Group's Asset Allocation Committee first establishes Strategic Allocations. The Committee then provides a second set of advice, Active Recommendations, which deviates somewhat from Strategic Allocations. The deviations, however, are limited by the Committee to preserve the risk-control benefits that come from portfolio diversification.

With over 24,000 investment advisors registered with federal and state regulators, there's no question finding the right manager is both difficult and time consuming. So is monitoring

manager performance over time, to make sure they follow a prudent investment strategy.

Biography

Steven E. Seligson is a Financial Planning Specialist. He has fifteen years business experience and has recently moved to Smith Barney from M.L. Stern, one of the premier bond brokerage houses in California. He specializes in financial planning, investments and wealth management. He has a B.A. from The University of East Anglia in Norwich, England and a Masters Degree from the California Institute of Integral Studies. He has also taken numerous classes in the graduate business program at the Marshall School of Business at U.S.C. Steven resides in Belmont with his wife Brenda and son Marshall.



Jason Stewart is the Regional Director for the Northern California Region for Smith Barney's Consulting Group. His responsibilities consist of providing professional money management consulting solutions to the firm's institutional and high net worth clients. Consulting Group provides a robust menu of investment consulting services such as assisting in the development of investment goals, personalized asset allocation advice, manager research and evaluation services and sophisticated portfolio monitoring services. Mr. Stewart coordinates and implements the ongoing training for the Financial Consultants on all facets of a consulting business, providing them the tools and available resources necessary to build and service their growing consulting practices.

Mr. Stewart has been with the firm for over seven years, with eleven years of experience in the investment industry. Mr. Stewart holds a Bachelor's Degree in Economics from Stanford University. He earned the designation of Certified Investment Management Analyst (CIMA) from the Wharton School in the fall of 2000. Mr. Stewart is also a member of the Association of Professional Investment Consultants and the Investment Management Consultants Association.

Volunteers Needed 2005 Chemistry Olympiad



Taipei, Taiwan will be the site of the International Chemistry Olympiad (IChO) to be held on July 16, of 2005 through July 25. The ACS will send a team of four high school students to participate in the challenge. The four students who will represent the ACS will be selected from a pool of 20 outstanding students from across the United States.

Do you know a stellar student that deserves to be one of the four participants to represent the ACS at the International Chemistry Olympiad? Well, then look no further, the selection process begins right here in our very own local section! High school chemistry students from South San Francisco to Monterey will compete for one of the four coveted spots by taking a standardized ACS written exam (see www.chemistry.org/education/olympiad.html for examples of past exams). The first round of testing will be conducted in local area high schools in February and March. The local section encourages high schools to participate in the exam and

also provides testing materials to high schools in the area. The resulting top 15 students will then meet together on April 16th to compete in the regional exams. In conjunction with the California Section, more written tests and a lab exercise will be administered at Santa Clara University on April 16th.

The results from that day of testing will then determine who will be among the 20 students from around the nation that will attend the week-long study camp at the Air Force Academy in Colorado. The team that will represent the U.S. at the IChO will be selected on the last day of the camp.

Would you like to help with this process? The first thing you can do is to encourage your local high school chemistry teachers to have their advanced placement and honors classes participate in the testing process. We have over 400 high schools in our section, but few compete. You can help grow the number of students participating in this year's Olympiad testing by contacting your high schools and chemistry teachers and by giving them the Olympiad information and encouraging them to

participate.

A few local section members are also needed to register the students and proctor the exams on April 16th at Santa Clara University. This is a good chance to volunteer and encourage these students to think about careers in chemistry! The local section even provides lunch for everyone!

Do you have access to a good color printer or an all-in-one? If so, we need you to help customize the ACS student certificates that each student will receive. If you or a friend are a budding calligraphist, your skills are needed as well! There will be about 75 certificates that will need personalized – and your calligraphic skills will be much appreciated!

So, here are your chances to help your local section with the 2005 International Chemistry Olympiad – encourage the teachers to participate (maybe even offer to help them grade the exams!), volunteer to be a proctor or help print certificates. If you need more information, please contact me.

Sally Peters

ChemOlympiad Committee Chair
Santa Clara Valley Section
Sally.Peters@parc.com
650-854-4614

Help the section by encouraging your local high school chemistry teachers and students to participate!

What's Going On in the Bay Area?

Below is a list of science fairs and activities in and near Silicon Valley:

San Mateo Science Fair February 22 - 27 at the Hillier Museum in San Carlos

<http://www.usc.edu/CSSF/Fairs/400.html>

Monterey Bay Science and Engineering Fair March 5 at CSU-Monterey Bay

<http://www.montereycountysciencefair.com/>

Sciencepalooza March 12 at the San Jose County Fairgrounds in San Jose

<http://www.outreach-foundation.org/judges.html>

San Francisco Science March 20 - 27 at the San Francisco County Fair building

<http://home.pacbell.net/sfbasf/>

Santa Cruz County Science Fair March 5 - 6 at the Santa Cruz City Auditorium

<http://science.santacruz.k12.ca.us/mambo/>

Synopsis Championship March 16 - 17 at the San Jose Convention Center

<http://www.science-fair.org/>

The Women Chemists Committee of the California Section

- Speaker:** Madeleine Jacobs, CEO and Executive Director of the ACS
Topic: "The Future of Chemistry"
Date: Saturday, February 26, 2005
Place: Mills College, 5000 MacArthur Boulevard, Oakland, CA 94613
Time: 10:00 am Social Hour (Bender Room)
11:00 am Seminar (Bender Room)
12:00 pm Lunch (Faculty Dining Room)
Cost: \$20.00 (\$10.00 for students and chemists seeking employment)
Cost includes luncheon and social hour refreshments.

All ACS members, colleagues, and students are invited to attend. Tours of the Art Museum and historic campus will be offered following the luncheon.

For Reservations: Contact the California Section office at (925) 287-8055, or by email at office@calacs.org, no later than February 18.

For Directions: Visit <http://www.mills.edu/about/directions.html> or call (510) 430-3250.

Abstract

Chemists are increasingly massing at the borders of other disciplines. What does this trend mean for the future of chemistry and the American Chemical Society? Ms. Jacobs will discuss factors that are influencing new directions and grand challenges for chemistry in the U.S. and abroad.

Biography

Since starting in her current position as CEO and Executive Director of the ACS January, 2004, Ms. Jacobs has worked closely with the Society and the Board of Directors to help reinvent ACS and prepare it to serve its members and the chemical profession during a time of radical change in the chemical enterprise.

Ms. Jacobs' professional interests include trends in the chemical industry, the public image of chemistry, employment trends, minority representation, and gender equality of scientists. She has written and given speeches on these topics to organizations in the U.S. and abroad for more than 30 years and is a much sought-after speaker.

Prior to taking on her current position, Ms. Jacobs was editor-in-chief of C&E News since 1995. During her long career, she has worked in technical media, public affairs, and outreach programs for the ACS, the Smithsonian, NIAID of the NIH, and the NBS (NIST). She received her BS in Chemistry from George Washington University and attended graduate school in Chemistry at the University of Maryland.

Editor's Corner – Chemistry Blog of the Month

As a new addition to the newsletter, each month a chemistry-related blog will be featured. A blog is an online diary or journal, typically documenting commentary and links about a particular topic or the day-to-day life of an individual. Add it to your bookmark list and use it as another tool to help keep you informed on the latest chemistry related news and events.

For February's issue of the newsletter, I have selected the following blog:

<http://barrybardy.blogs.com/ecom/bichemleads/>

Know of a good chemistry blog or would you like to see your own blog featured in the next issue of the Silicon Valley Chemist? If so, please contact me at editor@scvacs.org. Your help is appreciated!

(The views presented in the blog are not the views and beliefs held by the SCVACS section. Direction to this site is for informational and educational purposes only.)

Student Career Coaching Volunteers Needed

The Santa Clara Valley Section of the American Chemical Society (ACS) 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 begin in February. Teams of coaches will visit college campuses and hold workshops with students to help with resume preparation, to teach effective interviewing skills, and to share job search strategies. The primary focus of the workshop is to provide students with 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 create and place advertisements for the 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 bcharpentier@genitope.com. Details about the location and time of the training will appear in future editions of the SVACS newsletter and on the Section's website at www.scvacs.org. Now is your chance to become a coach or to help organize the trainings and workshops for the next generation of scientists – they need your help.

New Opportunities for Service

With Howard Peters' recent election to the national ACS Board of Directors, two new opportunities are open for service on the SCV Executive Committee.

1. Chair of the Harry and Carol Mosher Award Committee

First off, this position does not require a significant time commitment.

The award process starts when applications for the award are solicited. Next, the applications received are reviewed by the existing Mosher Award Committee and

a recipient is selected -- usually in one meeting. The committee then makes arrangements for the recipient of the award to visit the chapter, present a talk on their achievements within chemistry, and accept the award. All procedures for soliciting, selecting and presenting the recipient of the Mosher Award are in place.

2. Chair of SCV Minority Affairs Committee.

The focus of the SCV Minority Affairs Committee earlier was to be involved with the Carver

Science Fairs and Carver Kidventions. More recently, in our diverse Silicon Valley, the minority outreach has focused on involvement with local and international science fairs. The person selected to be the new committee chair will have the opportunity to personally focus the future efforts of this committee.

If you are interested in any of the above opportunities, please contact Jack Riley at jfriley2004@sbcglobal.net for more details.



CHEMPLOYMENT ABSTRACTS FEBRUARY 2005

CHEMPLOYMENT ABSTRACTS 3771

Position Title: Medicinal Chemistry Research Associate
Job Description: As members of a multi-disciplinary research teams, Chemistry Research Associates are responsible for the synthesis of novel molecules & working closely with senior members of the department identifying drug candidates suitable for clinical development.

QUALIFICATIONS DESIRED
Education: B.S. or M.S. in Chemistry and 2+ years of lab experience in organic synthesis.

Experience: Demonstrated ability to work productively and independently in a quality research environment. Willingness to set and achieve research goals.

LOCATION, SALARY, MAIL ADDRESS
Location: South San Francisco, CA

Description of Employer: Our commitment to serving patients lies at the heart of Amgen's success.

Application Instructions: Amgen's outstanding compensation package features comprehensive benefits and relocation assistance. Come be a part of the extraordinary process at Amgen! To learn more about other Amgen opportunities throughout the country, and to apply online, please visit www.amgen.com/career. As an EEO/AA M/F/D/V employer, Amgen values and encourages diversity in the workplace.

EMPLOYMENT ABSTRACT 3772

Position Title: Senior Research Associate, Medicinal Chemistry

Job Description: Synthesize & optimize novel compounds of therapeutic interest; employ syn org chem, including isolation, purification & structural characterization utilizing modern spectroscopic techniques; conduct frequent presentations & prepare written reports to communicate results to the Medicinal Chemistry project team; utilize PC based software such as chemical databases & literature searching tools to aid in the synthesis of potential drug candidates.

QUALIFICATIONS DESIRED
Education: BS in organic chemistry
Experience: 2-5 yrs with BS or 0-2 years with MS in org chem. Proven synthetic org chemistry. Characterize compounds using spectroscopic techniques (NMR, LCMS, IR, UV). Knowledge of chromatographic separation techniques (flash, HPLC)

LOCATION, SALARY AND MAIL ADDRESS
Location: Fremont, CA.

Salary: Open

Application Instructions: Qualified candidates are encouraged to submit a resume and complete personal profile by visiting <http://www.sciosinc.com/scios/jobs> and clicking on "Create/Modify Your Careers Profile" Equal Opportunity Employer

CHEMPLOYMENT ABSTRACT 3773

Position Title: Physical Sciences Full-time Tenure Track Instructor

Job Description: Assignments for this position may include lecture or laboratory instruction in two or three disciplines within the division. Primary assignments will be in Paso Robles.

QUALIFICATIONS DESIRED
Education: BS and MS in a field of chemistry
Experience: Min. quals. in 2 of 3 of the disciplines: chemistry, chem engineering, biochem, chem physics, mol biology, geo-chemistry, geology, geophysics, paleontology, meteorology, physics, oceanography, or earth sciences. Interest & experience in innovation designed to enhance learning, including developing lab activities & using multimedia/computer instruction.

LOCATION, SALARY, MAIL ADDRESS

Location: San Luis Obispo, Paso Robles (Primary), Arroyo Grande, Nipomo,
Salary: \$39,452-\$56,096

Employer Description: The Physical Sciences Division is composed of the Chemistry, Geology, & Physics/Astronomy disciplines.

Application Instructions: For an application and complete job announcement please visit our website at: www.cuesta.edu; call 805-546-3129; or write: P.O. Box 8106, San Luis Obispo, CA 93405-8106. (A complete application package must be received in Human Resources by the deadline of 2/28/04.)

CHEMPLOYMENT ABSTRACT 3774

Position Title: RESEARCH ASSOCIATE Medicinal Chemistry

Job Description: As a member of our Medicinal Chemistry team, you will work as part of an interdisciplinary drug discovery effort involving several research groups.

QUALIFICATIONS DESIRED
Education: A Bachelor's degree with 2+ years of industrial experience or a Master's degree is required. **Experience:** Excellent skills in practical organic synthesis are essential and familiarity with modern purification techniques, NMR, HPLC, and LCMS will be expected.

LOCATION, SALARY, MAIL ADDRESS
Location: South San Francisco, CA

Employer Description: Theravance is a biopharmaceutical company with a pipeline of internally discovered product candidates.

Application Instructions: To apply, please go to www.theravance.com and reference Job 03-032. EOE

CHEMPLOYMENT ABSTRACT 3775

Position Title: Quality Control. Microbiology Manager
Job Description: Supervise microbiological testing in support of cGMP manufacturing at VaxGen facilities, including in-process and release microbiological testing of raw materials, bulk substances, and final product. Coordinate environmental monitoring activities such as validation of the facilities critical systems and routine monitoring.

QUALIFICATIONS DESIRED
Education: M.S. in relevant scientific field
Experience: M.S. degree and 10+ years of experience in pharmaceutical microbiology with 5 years or more in management. Excellent communication and writing skills are essential. Strong knowledge of GMP and FDA, USP and European regulations related to environmental monitoring, clean room operations and critical utilities.

LOCATION, SALARY, MAIL ADDRESS
Location: South San Francisco, CA

Employer Description: VaxGen, Inc., incorporated 1995, is a biopharmaceutical company engaged in the development, manufacture and commercialization of biologic products for the prevention and treatment of serious human infectious disease.

Application Instructions: Please send resume to jobs@vaxgen.com or to VaxGen, Inc. Human Resources, 1000 Marina Blvd., Suite 200, Brisbane, CA 94005. Fax: 650-624-1084.

CHEMPLOYMENT ABSTRACT 3776

Position Title: Senior Research Associate/ Research Investigator, Medicinal Chemistry

Job Description: Synthesize novel compounds of therapeutic interest. Employ synthetic organic chemistry, including multi-step synthesis, isolation, purification & structural characterization utilizing modern spectroscopic & analytical techniques such as NMR, IR, MS, HPLC.

QUALIFICATIONS DESIRED
Education: BS in org chem with 3-5 years exp, or an MS with 2 years of experience

Experience: Experience as a synthetic org chemist. Experienced in characterization of compounds using spectroscopic techniques (NMR, LCMS, IR) and working knowledge of chromatographic separation techniques (flash, HPLC). Able to work independently and in team environment. good problem solving, communication skills; able to present and prepare written reports

LOCATION, SALARY, MAIL ADDRESS
Location: South San Francisco, CA

Salary: Depends of experience

Employer Description: Portola Pharmaceuticals, Inc., founded in 2003, is a biopharmaceutical company focused on the discovery and development of novel therapeutics for the treatment and prevention of severe cardiovascular diseases.

Application Instructions: Send resumes to Portola Pharmaceuticals, 270 E Grand Ave., So. San Francisco, CA 94080 or careers@portola.com Reference Job #acs 405 We are an equal opportunity employer

CHEMPLOYMENT ABSTRACT 3777

Position Title: Medicinal Chemistry Research Associates

Job Description: Genentech's Medicinal Chemistry Department has three exciting research opportunities available in our South San Francisco facility.

QUALIFICATIONS DESIRED
Education: A BS or degree in Chemistry
Experience: Strong interpersonal and organizational skills along with 0-8 years experience in organic, medicinal, or process chemistry.

LOCATION, SALARY, MAIL ADDRESS

Location: South San Francisco, CA
Description of Employer: Genentech is a leading biotechnology company that discovers, develops, manufactures and commercializes biotherapeutics for significant unmet medical needs. Genentech's Research department comprises more than 500 scientists, who consistently publish between 250 and 300 scientific papers a year and are among the top researchers in the world in terms of total citations. Genentech researchers have secured more than 4,300 patents worldwide (with 5,000 more pending).

Application Instructions: We offer one of the most comprehensive benefits packages in the industry. Our culture emphasizes working hard, working together and sharing rewards. To learn more about these opportunities and to apply online, please visit our website at <http://www.gene.com/careers/>. We are an equal opportunity employer.

Happy
Valentine's
Day!





SANTA CLARA VALLEY SECTION
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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

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Newsletter

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ChemPloyment Abstracts

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

FUTURE MEETINGS

- Feb 6-9** ACS ProSpectives
Process Chemistry in the
Pharmaceutical Industry
Miami, FL
- Feb 17** SCV Dinner Meeting
Planning for Retirement
Palo Alto, CA
- Feb 26** WCC, California Section
Madeleine Jacobs
- Mar 13-17** ACS National Meeting
San Diego, CA
- Mar 24** SCV Dinner Meeting
Electroreception in Elasmobranchs
Palo Alto, CA
- Mar-Apr** Chemistry Olympiad Local Section
Qualifying
- Apr 16** Chemistry Olympiad National Exam
Santa Clara University
- Apr 21** SCV Dinner Meeting

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



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