

# Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 31 No. 1

## JANUARY 2009 NEWSLETTER TOPICS

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February Dinner Meeting

## Elementeo, the Chemistry Card Game and its Young Inventor

How the game was invented followed by an ACS tournament

### Abstract:

Come hear about the invention of the game and then see if you can beat your colleagues and the inventor in an Elementeo Tournament.

Elementeo is a game where you create compounds, combat elements, and conquer chemistry.

Each Elementeo card has fantasy, education, and fun all mixed in. From the education side, each element card includes the facts on the atomic number, atomic mass, element family,



Anshul Samar

physical state at room temperature, oxidation state, and symbol of the element. These facts are interwoven in the game in fun ways. Elementeo has 121 playing cards, a die and a game board. Players can use things like elements, com-

pounds, supernovas and black holes to simulate an epic chemical war.

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## Chair's Message

Happy New Year. It's hard to believe that it is already 2009. I would like to thank Mark Kent for all his hard work and leadership last year. I look forward to an exciting year as the new chair of the section. One of my goals for the year is to broaden the diversity of the section's meetings in both geographical location and diversity in subject matter. The Santa Clara Valley section goes from the Southern edge of San Francisco down to Monterey and Salinas. This spring we will hold a meeting in Monterey at the Monterey Bay Research Institute. In addition, our February meeting will feature our youngest speaker ever, Anshul Samar. He is the CEO and Founder of Alchemist Empire, Inc. Anshul is in 9th grade at Bellarmine Preparatory High School. He is also

the inventor of a new chemistry game called Elementeo. He will discuss his invention, and then we will hold an Elementeo tournament at our dinner meeting.

The Mosher award meeting, which is usually held in January, has been postponed until March to accommodate Dr. Ted Brown, the 2008 Mosher recipient. Instead, at the January meeting we will have a fascinating lecture by Dr. Christopher McKay, an astronomer at NASA Ames. He will discuss some of the results of the recent Phoenix mission to Mars as well as his research in Antarctica. Chris has been involved with polar research since 1980, traveling to the Antarctic dry valleys to conduct research in these Mars-like environments.

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## February Dinner Meeting

Note Earlier Times

**Date:** Thursday, February 19, 2009

**Time:** 6:00 Social Hour  
6:30 Dinner

7:30 Talk and Game Playing

**Location:** Cañada College  
Room 3-142  
Redwood City, CA

**Speaker:** Anshul Samar  
Game Inventor–Elementeo

**Cost:** \$20.00; Mexican buffet with build-your-own Fajitas

**Reservations:** [www.scvacs.org](http://www.scvacs.org)  
or Shirley Radding  
408-246-2564  
408-296-8625 Fax

Reservations should be made by February 16th stating your name, address, company affiliation, number of people in party, and menu selection. If you are unable to honor your reservation and do not cancel by Tuesday, February 17th, you will be invoiced following the dinner meeting.

*Elementeo, continued from front page*

They might choose a nuclear fusion reaction to release energy and increase the cards' power. Or, they can have acid rain destroy element cards on the battlefield. It's all about making chemistry a side effect of fun.

The card description includes details about how the card can be played in the game and its properties and use. Its magical and mystical descriptions talk about another whole world that the elements live in. If you are worried about kids not reading the description, don't worry, they will, because without that it is impossible to activate reactions and effects that would aid you in the game.

Elementeo is a strategic battle game where you use your elements across the battlefield to reduce your opponent's electrons to zero. You do that by harnessing the strength and moving properties of the elements and compounds, and by using their reactionary powers. For example, Oxygen can rust any neighboring metal, or Copper Conductor can shock any metals and send them back to the deck.

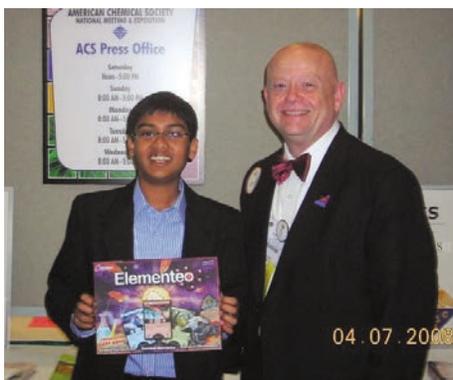
The aim is to combine fun, excitement, education, and chemistry, all in one grand concoction! The game doesn't create a fantasy wizard world or create a boring education textbook world, but it combines the two where fun and learning come together without clashing!

### **Biography**

Anshul Samar is a freshman in high school. He has invented, manufactured and commercialized a chemistry card game called Elementeo. Anshul and his card game have been covered by many newspapers including the New York Times, and the Mercury News. He has been interviewed on TV and radio. He launched Elementeo at the National Association of the Gifted Conference, Tampa, Florida on November 1, 2008. Anshul also attended the New Orleans ACS meeting where he met with Dr. Tom Lane, President Elect of ACS (See photo).

According to Anshul, "Creating a company has been on my mind for a long time, but it was only at the end of my 4th grade summer when the

idea of a chemistry based card game struck me. It however took me a long time and dozens of prototypes to get just the right mix of education and fun.



Going from the idea to the final product certainly took me some time, but it was a fun and exciting journey. And now, with support from my gurus, teachers, advisers, friends, and family, I am now very pleased to release the Elementeo game as the first product of my company, Alchemist Empire, Inc. I'm in eighth grade. I got the idea for the card game I'm marketing, Elementeo, at the end of fourth grade. I started working on it last year. I named my company Alchemist Empire because alchemists were always creating new things. For example, they tried to make gold out of lead. I

wanted to show that you can mix fun, education and action.

I tested Elementeo at my school, Lawson Middle School. Of the 110 eighth graders who played it, 82 percent thought it was better than the board games currently on the market. I also tried it out at Lyceum, a local organization that I belong to for gifted children in Silicon Valley. I found that fourth through eighth graders liked it.

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### *Chair's Message, continued from front page*

We just completed our first on-line elections. I hope you took the opportunity to cast your vote for the members of the Santa Clara Valley local section officers and councilors. By using an on-line voting system, we had 338 ballots cast. This is almost 10 times the number of ballots returned in comparison to the previous year's paper ballots. This amount of participation, however, still only represents less than 10% of our membership. The entire slate of officers and councilors running for a position was elected.

I hope to meet you at an upcoming dinner meeting or other ACS sponsored events.

*Natalie McClure*

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## **2008 Ottenberg Award Winner**

This year the Ottenberg award was given to Bruce Raby. The Abraham Ottenberg Service Award award was established in 1973 by the Santa Clara Valley Section to recognize members who have rendered outstanding service to the Section. It is named after Abraham Ottenberg, a former member who was outstanding in service to the Section. The award consists of an engraved plaque and a check for two hundred dollars. The award recipient is selected from candidates nominated by members of the Section.

Bruce has been an active member of the Santa Clara Valley Section for many years. He is quite dedicated to promotion of chemistry as a career choice for students and participates as



a judge in many science fairs and in the Chemistry Olympiad. He is the Chair-Elect for 2009, reprising a position he held for the section several years ago.

Bruce was awarded his plaque at a recent meeting of the section Executive Committee by Lois Durham, the Ottenberg committee chair.

Reminder

January Dinner Meeting Reminder

Reminder

## Results of the Phoenix Mission to Mars and Analog Sites on Earth

Dr. Christopher P. McKay

We certainly hope you will join us for this very interesting discussion in January with Dr. Christopher P. McKay from NASA Ames Research Center.

### Abstract

Phoenix landed at 68° N latitude in the ice-rich ground on Mars and investigated the chemistry and geology of a polar site on Mars for the first time. The site is particularly interesting for astrobiology because 5 million years ago the tilt of Mars' axis was 45° and the amount of sunlight reaching the Phoenix site at summer solstice was 2 times the present value, i.e., Earth-like levels. Understanding the microbial activity in high elevation dry permafrost in Antarctica provides a basis for considering habitability conditions on Mars during these periods of higher obliquity.

### Biography

Dr. Christopher P. McKay is a



Planetary Scientist with the Space Science Division of NASA Ames. Chris received his Ph.D. in AstroGeophysics from the University of Colorado in 1982 and has been a research scientist with the NASA Ames Research

Center since that time. His current research focuses on the evolution of the solar system and the origin of life. He is also actively involved in planning for future Mars missions including human settlements. Chris has been involved with polar research since 1980, traveling to the Antarctic dry valleys and more recently to the Siberian and Canadian Arctic to conduct research in these Mars-like environments. Dr. McKay is a recipient of the prestigious Kuiper Award from the Division of Planetary Sciences of the American Astronomical Society.



## January Dinner Meeting

**Date:** Thursday, January 15, 2009

**Time:** 6:00 Social Hour

7:00 Dinner

8:00 Presentation

**Location:** Biltmore Hotel & Suites  
2151 Laurelwood Blvd.  
Santa Clara, CA 95054

**Speaker:** Dr. Christopher McKay  
NASA Ames Research Ctr.,  
Space Science Division  
Results of the Phoenix  
Mission to Mars

**Cost:** \$27.00 with a choice of:  
Teriyaki Steak  
Shiitake Mushroom Ravioli

**Reservations:** [www.scvac.org](http://www.scvac.org)  
or Shirley Radding  
408-246-2564  
408-296-8625 Fax

Reservations should be made by January 12th 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 Tuesday, January 13th, you will be invoiced following the dinner meeting.

## American Chemical Society Scholars Program Pathways to Success in the Chemical Sciences

The American Chemical Society (ACS) Scholars Program is receiving applications for the 2009-2010 academic year. The ACS Scholars Program is currently in its fourteenth year of funding authorization by the Society's Board of Directors.

The scholarship is designed to encourage the best and the brightest African-American, Hispanic, and Native American students to pursue undergraduate college degrees in the chemical sciences.

- To date, the American Chemical Society has awarded over \$10.8 million in scholarships to more than 1990 deserving undergraduates and has an 80% retention rate.
- The program identifies mentors for our Scholars.
- As of this calendar year, 47 of our

program graduates have obtained a Ph.D. and another 170 are confirmed to be enrolled in Ph.D. programs. More than 300 are enrolled in or have completed a Masters Degree program.

- Our graduates are employed by Procter & Gamble, DuPont, Xerox, 3M, Johnson & Johnson, Kimberly Clarke, ExxonMobil, Merck Pharmaceuticals, and many other top corporations.
- Others have become faculty members at universities or are teaching chemical science at the high school level.

The American Chemical Society Scholars Program will award approximately 100 scholarships to undergraduate students interested in four-year degrees in the chemical sciences,

those interested in transferring from two-year colleges to four-year colleges to pursue chemical science degrees; and to two-year students intending to pursue degrees in chemical technology. High school seniors who will be entering college are also eligible. The scholarship is valued at up to \$2500 per academic year for freshmen, and up to \$3000 per academic year for sophomores, and up to \$5000 per academic year for juniors and seniors.

The ACS Scholars Program Web Site ([www.acs.org/scholars](http://www.acs.org/scholars)) contains additional information about the program and provides access to the on-line application form as well as downloadable application documents. The application postmark deadline is March 1, 2009.

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Scholars, continued from previous page

A number of corporations and other organizations have joined with the ACS to co-sponsor students in this scholarship program. A student select-

ed to be the recipient of a corporate award may have the added opportunity for a summer internship. Mentoring is considered essential for students in the chemical sciences and

the Society offers mentoring support.

Questions about the application process can be addressed to [scholars@acs.org](mailto:scholars@acs.org) or call 1-800-227-5558 (ext. 6250).

## Titration Competition on the Central Coast-2008



The Science Club of California State University Monterey Bay (CSUMB) hosted the 2nd Annual Central Coast Titration Competition to celebrate National Chemistry Week on Saturday, November 1. Over 50 participants from local high schools and universities competed to be the first team to most accurately determine the concentration of two samples. The Carmel High School team of Danny Funt, Erica Ann Loftus and Trenton Otto,



led by teacher Michael Guardino was first to complete the challenge followed closely by the Santa Catalina High School team of Dah Kyung Kim, Ilene Kim and Paulina Nguyen. The CSUMB team of Heather Deleon, Josh Manley and Adam Sa won 1st place in the University division and placed first overall. All participants and volunteers had a lot of fun during the event, which was followed by lunch and a raffle including prizes such as



an Ipod, a periodic table beach towel and other fun items donated by the American Chemical Society. The Science Club would like to thank all of the high schools who participated as well as the ACS and local businesses for their donations as well as the university participants and volunteers for their support and we look forward to next year's event to celebrate National Chemistry Week on the Central Coast.

## Photos of the November 20, 2008 Dinner Meeting with Dr. Terry Oldberg

by Lois Durham



George Lechner and Terry Oldberg



Oldberg, Mark Kent and Bruce Raby



Lechner, Sally Peters and Marie Ellen Cottman



Randa and Karl Marhenke, Michele Coleman



David Nehr Korn and Harold Lips



Oldberg and Lechner

# CHEMEMPLOYMENT ABSTRACTS JANUARY 2009

## CHEMEMPLOYMENT ABSTRACT 3921

**Position Title:** Director of Medicinal Chemistry

**Job Description:** You will assume responsibility for small molecule design including the ideation of large, diverse, patentable and synthetically accessible compound solution spaces for each project, working with Numerate's engineering team to build and refine predictive models, managing and/or monitoring the synthesis of selected compounds, and insightfully responding to computational and experimental data.

### QUALIFICATIONS DESIRED:

**Experience:** 10+ years of experience in small molecule drug discovery, including distinguishing contributions to lead identification and optimization culminating in the advancement of candidates into development. Excellent creative skills related to the project-specific conception and elaboration of novel compounds and libraries. Experience in programs directed against different types of drug targets.

### LOCATION, SALARY, EMPLOYER DESCRIPTION:

**Job Location:** San Bruno, California

**Salary:** DOE

**Employer Description:** Numerate has developed a unique and powerful Drug Engineering Process™ which predictively and rapidly delivers and optimizes novel lead compounds.

**Application Instructions:** Individuals interested in this opportunity are encouraged to submit a resume via email to [jobs@numerate.com](mailto:jobs@numerate.com), or via regular mail to: Human Resources ATTN: Director Medicinal Chemistry Numerate, Inc. 1150 Bayhill Drive, Suite 203, San Bruno, CA 94066

Numerate is an equal opportunity employer and offers attractive compensation including significant equity participation.

## CHEMEMPLOYMENT ABSTRACT 3922

**Position Title:** Scientist/Senior Scientist - Protein Engineering

**Job Description:** The primary responsibilities of this position will include hands-on NMR data acquisition, processing and analysis that is focused on assessing ligand-binding and analyzing the solution structures of proteins or protein/ligand complexes involved in modulating cell-signaling events of therapeutic interest.

### QUALIFICATIONS DESIRED:

**Education:** A successful candidate should have a PhD degree in a relevant discipline with at least three years of postdoctoral training

**Experience:** Industry experience in fragment-based small molecule drug discovery strongly preferred. Significantly more working experience is required for Senior Scientist candidates. The successful candidate will show evidence of productive, independent contributions in science, as demonstrated by a strong publication/patent record. Extensive knowledge and hands-on expertise in all aspects of protein and small molecule NMR spectroscopy is required.

### LOCATION, SALARY, EMPLOYER DESCRIPTION:

**Job Location:** South San Francisco, CA 94080

**Salary:** DOE

**Employer Description:** Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions.

**Application Instructions:** Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: <http://careers.gene.com> and reference Req. #1000021966. Please use "Web - ChemEmployment" when a "source" is requested. Genentech is an Equal Opportunity Employer.

## CHEMEMPLOYMENT ABSTRACT 3923

**Position Title:** Research Fellow- Formulation Chemistry

**Job Description:** Currently we are seeking a highly motivated research scientist preferably having a strong nucleic acid background and extensive experience with polymer and nanoparticle based drug delivery systems. The successful candidate will be working within the Lead Development Department and leading a team of chemists focusing on the production and analysis of chemical formulations for the development of Sirna therapeutics. Job responsibilities will include streamlining and making the formulation process more efficient, coordinating external collaborations, communicating results to multi-disciplinary teams and developing a strategic vision for the group.

### QUALIFICATIONS DESIRED:

**Education:** Ph.D. in Chem or Chemical Engineering or a related discipline

**Experience:** A minimum of two (2) years post-doctoral experience in a related field and three (3) years' pharmaceutical/biotechnology industry experience in drug development is required. Demonstrated leadership skills and a track record of quality publications and presentations at national scientific meetings is necessary. Preferred candidates should have experience with people management and a command over relevant liposome and polymer based nanoparticle literature. The individual should demonstrate outstanding analytical, assay development skills and initiative; in addition, excellent interpersonal and communication skills are essential.

### LOCATION, SALARY, EMPLOYER DESCRIPTION:

**Job Location:** San Francisco, California

**Salary:** DOE

**Employer Description:** Sirna Therapeutics, Inc., a wholly-owned subsidiary of Merck & Co., Inc., is leading the industry in developing a new class of drugs based on RNAi technology that we believe will significantly improve human health.

**Application Instructions:** We offer an excellent salary and an industry-ranked benefits program, including tuition reimbursement, work-life balance initiatives and developmental programs at all levels. Merck's retirement package includes a pension plan and one of the best 401(k) plans in the nation. To be considered for this position, please visit our career site at [www.ecentralmetrics.com/url/?u=895680519-326](http://www.ecentralmetrics.com/url/?u=895680519-326) to create a profile and submit your resume for requisition number CHE001565.

## CHEMEMPLOYMENT ABSTRACT 3924

**Position Title:** Professor Materials Engineering, Tenure Track

**Job Description:** Will be responsible for addressing the educational needs of undergraduates and graduate students through development of course materials, teaching strategies and research projects. The new faculty member will collaborate with SJSU's Materials Characterization and Metrology Center [MC]2 (<http://www.engr.sjsu.edu/MC2/>). This is an active group of faculty users who share access to campus technical resources, collaborate on research, and work together to obtain external funding. The new faculty member will be able to leverage the state of the art tools and collegial atmosphere of the Center to build up their own research and curriculum.

### QUALIFICATIONS DESIRED:

**Education:** PhD in Materials Engineering or a related field

**Experience:** Details of the open position can be found at <http://www.engr.sjsu.edu/about/emp>. Preferred candidates must have a demonstrated interest in developing characterization laboratory capabilities in nanomaterials, biomaterials or structural materials

### LOCATION, SALARY, EMPLOYER DESCRIPTION:

**Job Location:** San Jose, CA

**Salary:** Assistant Professor

**Employer Description:** The Charles W. Davidson College of Engineering has a total student population of approximately 5,000, with 3,000 undergraduates and 2,000 graduate students who pursue a M.S. degree. We have a very diverse student body with a large population of underrepresented groups, immigrants, and first generation college students. The eight academic departments house eleven degree programs and have approximately 80 full-time faculty. Located in the heart of Silicon Valley, the College has strong ties with local industry. San Jose State truly values the mix of both teaching and research. Innovative educational research and curriculum development is encouraged and quality teaching is valued in the promotion process. SJSU is an Equal Opportunity Employer

**Application Instructions:** For full consideration, send a letter of application, curriculum vitae, statement of teaching interests/philosophy and research plans, and three original letters of reference with contact information by February 15, 2009 to: Dr. Stacy Gleixner, Chair, Search Committee, Department of Chemical and Materials Engineering, San José State University, One Washington Square, San José, CA 95192-0082. Please include Job Opening ID #13558 on all correspondence

**CHEMEMPLOYMENT ABSTRACT 3925**

*Position Title:* Lecturer, Biochemistry Summer 2009

*Job Description:* Planning and teaching Biochemistry 141 (Biochemistry I), offered Summer 2009. This course will meet from June 18 to July 24. Lectures are 130 minutes in length and meet MWF. Specific teaching responsibilities are provided at the website:

<http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>

**QUALIFICATIONS DESIRED:**

*Education:* Ph.D. in biochemistry

*Experience:* Prior experience teaching university-level upper-division courses in biochemistry is required

**LOCATION, SALARY, EMPLOYER DESCRIPTION:**

*Job Location:* Santa Clara University

*Salary:* Minimum of \$4,900–5,900, depending on enrollment.

*Employer Description:* The Department of Chemistry at Santa Clara University, a Jesuit Catholic institution with an ACS-approved undergraduate program.

*Application Instructions:* Submit a curriculum vitae, a copy of graduate transcripts, and two letters of recommendation to Dr. Jack Gilbert, Chair, Department of Chemistry, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053. E-mail: [jgilbert@scu.edu](mailto:jgilbert@scu.edu). Individuals employed within the last year at SCU need only contact Dr. Gilbert to express interest in the position.

**CHEMEMPLOYMENT ABSTRACT 3926**

*Position Title:* Lecturers, General Chemistry Summer 2009

*Job Description:* For general chemistry lectures and for lab sections during Summer 2009. GenChem I (June 15 to July 3); GenChem II (July 6–24); GenChem III (July 27 to Aug 14). Lectures are 3 hours in length, meet M–F. Labs are 3 hours in length, meet 3 times each week. For specific teaching responsibilities and salaries, refer to <http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>

**QUALIFICATIONS DESIRED:**

*Education:* Ph.D. in chemistry is required for lecture sections and is preferred for lab sections.

*Experience:* Lecture Sections: Prior experience teaching university-level general chemistry is highly desirable.

Lab Sections: Prior experience teaching general chemistry laboratory is essential. For more information: <http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>

**LOCATION, SALARY, EMPLOYER DESCRIPTION:**

*Job Location:* Santa Clara University

*Salary:* Minimum \$7,000–8,000 for lectures per 3-week session; Minimum \$3,100 for each lab section.

More info on: [www.scu.edu/cas/chemistry/Job-Opportunities.cfm](http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm)

*Employer Description:* The Department of Chemistry at Santa Clara University, a Jesuit Catholic institution with an ACS-approved undergraduate program

*Application Instructions:* Submit a curriculum vitae, a copy of graduate transcripts, and two letters of recommendation to Dr. Jack Gilbert, Chair, Department of Chemistry, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053. E-mail: [jgilbert@scu.edu](mailto:jgilbert@scu.edu). Individuals employed within the last year at SCU need only contact Dr. Gilbert to express interest in the position.

**CHEMEMPLOYMENT ABSTRACT 3927**

*Position Title:* Lecturers, Organic Chemistry Summer 2009

*Job Description:* For organic chemistry lectures and for lab sessions during Summer 2009: Organic I meets June 15 to July 3; Organic II meets July 6–24; Organic III meets July 27 to Aug 14. Lectures are 3 hours in length and meet M–F. Labs are 4.5 hours in length and meet twice each week. For specific teaching responsibilities, see: <http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>

**QUALIFICATIONS DESIRED:**

*Education:* Ph.D. in organic chemistry - required for lecture sections, preferred for lab sections

*Experience:* Prior experience teaching university-level organic chemistry is highly desirable.

**LOCATION, SALARY, EMPLOYER DESCRIPTION:**

*Job Location:* Santa Clara University

*Salary:* Minimum \$7,000–9,000 for lectures per 3-week session; Minimum \$3,100 for each lab section.

More info on: <http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>

*Employer Description:* The Department of Chemistry at Santa Clara University, a Jesuit Catholic institution with an ACS-approved undergraduate program

*Application Instructions:* Submit a curriculum vitae, a copy of graduate transcripts, and two letters of recommendation to Dr. Jack Gilbert, Chair, Department of Chemistry, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053. E-mail: [jgilbert@scu.edu](mailto:jgilbert@scu.edu). Individuals employed within the last year at SCU need only contact Dr. Gilbert to express interest in the position.

**CHEMEMPLOYMENT ABSTRACT 3928**

*Position Title:* Lecturer, Biochemistry Spring 2009

*Job Description:* Planning and teaching one section of Biochemistry (Chem 141) for Spring quarter, 2009 (March 30–June 11). Contact time is 3.5 hours/week. Class time is flexible and includes evenings. Specific teaching responsibilities can be found at <http://www.scu.edu/cas/chemistry/Job-Opportunities.cfm>.

**QUALIFICATIONS DESIRED:**

*Education:* Ph.D. in biochemistry

*Experience:* Prior experience teaching university-level upper-division courses in biochemistry is desirable.

**LOCATION, SALARY, EMPLOYER DESCRIPTION:**

*Job Location:* Santa Clara University

*Salary:* \$5,500

*Employer Description:* Santa Clara University is a Jesuit Catholic institution with an ACS-approved undergraduate chemistry program.

*Application Instructions:* Submit a curriculum vitae, statement of experience/interest in teaching a diverse group, evidence of past teaching performance and sample syllabus, undergraduate and graduate transcripts, and 2 recommendation letters to Dr. Jack Gilbert, Chair, Department of Chemistry, Santa Clara University, 500 El Camino Real, Santa Clara CA 95053. Individuals employed within the last year at SCU need only contact Dr. Gilbert to express interest in the position.

**CHEMPLOYMENT ABSTRACT 3929**

**Position Title:** Senior Consultant - Process Engineer - Biochemical expert  
**Job Description:** SRI Consulting (SRIC) is looking for a chemical engineer with biotechnology background to join its Process Economics Program (PEP) as a senior consultant. The PEP program develops conceptual designs and costs for processes used in chemical and energy industries, and conducts private research including process evaluations and feasibility studies for individual clients.

**QUALIFICATIONS DESIRED:**

**Education:** BS chemical engineering or equivalent experience and an MBA is a plus.

**Experience:** 5-8 years of experience in process design and project management. Knowledge in evaluating biochemical process technologies with a major chemical company is preferable. Excellent written and verbal communication skills are required. Knowledge of AspenPlus and other process design and simulation and costing software is an advantage.

**LOCATION, SALARY, EMPLOYER DESCRIPTION:**

**Job Location:** Menlo Park, CA or The Woodlands, TX

**Salary:** Competitive

**Employer Description:** SRI Consulting is the world's leading business research service for the global chemical industry. Publishing for over 60 years, SRI Consulting is the preeminent source for in-depth business and process analysis.

**Application Instructions:** Email cover letter and resume to jobs@sriconsulting.com. Fax: 650-384-4273

**CHEMPLOYMENT ABSTRACT 3930**

**Position Title:** Senior Scientist - Protein Engineering  
**Job Description:** The primary responsibilities of this position will be to help develop, lead, and implement NMR-based strategies to support small molecule drug discovery programs, working closely with the Biochemical Pharmacology and Discovery Chemistry Departments, and participating directly with small molecule project teams to aid the design of new small molecule compounds

**QUALIFICATIONS DESIRED:**

**Education:** A successful candidate should have a Ph.D in a relevant discipline

**Experience:** The candidate must have at least three years of postdoctoral training. Industry experience in fragment-based small molecule drug discovery is strongly preferred (Significantly more working experience is required for Senior Scientist candidates. The successful candidate will show evidence of productive, independent contributions in science, as demonstrated by a strong publication/patent record.

**LOCATION, SALARY, EMPLOYER DESCRIPTION:**

**Job Location:** South San Francisco, CA

**Salary:** DOE

**Employer Description:** Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions..

**Application Instructions:** Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: <http://careers.gene.com> and reference Req. #1000021966. Please use "Web - Chememployment" when a source is requested. Genentech is an Equal Opportunity Employer.

**CHEMPLOYMENT ABSTRACT 3931**

**Position Title:** Senior Scientist - In Vivo Pharmacology  
**Job Description:** The Senior Scientist, Pharmacology will manage an in vivo pharmacology group and lead small molecule drug development program(s). The successful candidate will provide scientific, strategic leadership, and hands-on technical expertise to drive compounds from discovery to proof of concept in humans.

**QUALIFICATIONS DESIRED:**

**Education:** This position requires a Ph.D. in Biology

**Experience:** The candidate must have post-doctoral experience with 5-15 years of relevant experience in a research, biotechnology, or a pharmaceutical lab. An in depth understanding of the signaling pathways that leads to cancer and an ability to translate data from in vitro assays to pre-clinical models is required.

**LOCATION, SALARY, EMPLOYER DESCRIPTION:**

**Job Location:** South San Francisco, CA

**Salary:** DOE

**Employer Description:** Genentech is among the world's leading biotech companies, with multiple therapies on the market for cancer and other serious medical conditions.

**Application Instructions:** Genentech is dedicated to fostering an environment that is inclusive and encourages diversity of thought, style, skills and perspective. To learn more about our current opportunities, please visit: <http://careers.gene.com> and reference Req. #1000024282. Please use "Web - Chememployment" when a source is requested. Genentech is an Equal Opportunity Employer.



**Happy  
New  
Year!**



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

Visit our web site at:



<http://www.scvacs.org>

To receive an email when our newsletter  
is published on our web site, sign up at:  
<http://www.scvacs.org/newsletter/>

## SANTA CLARA VALLEY SECTION

### 2009 Section Officers

Chair	<b>Natalie McClure</b>	650-906-7831	nmcclore@drugregulatoryaffairs.com
Chair-Elect	<b>Bruce Raby</b>	408-294-6718	brida954@comcast.net
Past Chair	<b>Mark Kent</b>	408-736-0989	marklent@yahoo.com
Secretary	<b>Karl Marhenke</b>	831-688-4959	karlmar@armory.com
Treasurer	<b>Herb Silber</b>	408-924-4954	hbsilber@science.sjsu.edu

### Councilors

2007-2009	<b>Linda Brunauer</b>	408-554-6947	lbrunauer@scu.edu
2007-2009	<b>Sally Peters</b>	650-812-4994	Sally.Peters@parc.com
2007-2009	<b>Peter Rusch</b>	650-961-8120	pfrusch@aol.com
2008-2010	<b>George Lechner</b>	408-226-7262	glechner@aol.com
2008-2010	<b>Herb Silber</b>	408-924-4954	hbsilber@science.sjsu.edu
2009-2011	<b>Abby Kennedy</b>	209-640-2005	akennedy@exelixis.com
2009-2011	<b>Howard Peters</b>	650-854-4614	peters4pa@sbcglobal.net
2009-2011	<b>Ean Warren</b>	650-329-4554	ewarren@scvacs.org

### Alternate Councilors

2007-2009	<b>Natalie McClure</b>	650-906-7831	nmcclore@drugregulatoryaffairs.com
2007-2009	<b>Stephanie Gehling</b>	408-261-3974	s_gehling@hotmail.com
2008-2010	<b>Mark Kent</b>	408-736-0989	marklent@yahoo.com
2009-2011	<b>Ihab Darwish</b>	650-594-1654	darwishis@yahoo.com
2009-2011	<b>David Parker</b>	408-615-4961	dparker@santaclaraca.gov
2009-2011	<b>Bruce Raby</b>	408-294-6718	brida954@comcast.net
2009	<b>Lois Durham</b>	650-322-3507	ldurham9398@sbcglobal.net
2009	<b>Harry Ungar</b>	831-247-4545	haungar@cruzio.com

### Newsletter

Editor:	<b>Cinzia Muzzi</b>	408-864-5790	muzzicinzia@deanza.edu
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### ChemPloyment Abstracts

Director:	<b>Charles Sullivan</b>	650-359-0731	cdansullivan@sbcglobal.net
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## FUTURE MEETINGS

- Jan 11-16** 19th Winter Fluorine Conference  
St. Petersburg, FL  
<http://membership.acs.org/F/FLUO/19WFC/INDEX19WFC.HTM>
- Jan 22** Dr. Jeff Wong  
CA EPA  
Chevron Richmond Technology Center  
[www.calacs.org/calindex.asp](http://www.calacs.org/calindex.asp)
- Feb 18** BioScience Forum  
Dr. Tony Allison  
Alavita Pharmaceuticals  
[www.biosf.org/programs.htm](http://www.biosf.org/programs.htm)
- Feb 19** Anshul Samar  
Game Inventor -- Elementeo  
Cañada College
- Mar 19** Dr. Ted Brown  
Mosher Award Winner  
Biltmore Hotel
- Mar 22-26** ACS National Meeting  
Salt Lake City, UT