

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 27 No. 10

November Dinner Meeting

Legacy Mercury – How It Found Its Way into the San Francisco Bay

Abstract

Mercury, it's the bane of the San Francisco Bay and Bay Delta. How did it get there and why are regulatory agencies so concerned about mercury? Rick Humphreys, of the State Water Resources Control Board will present on overview of where mercury sources are, how mercury gets transported, and how scientists think it works its way up the food-chain.

Mercury is a primary regulatory issue of the State Water Resources Control Board. But mercury's insidious chemistry combined with multiple sources make regulating it in the San Francisco Bay a challenging task.

Biography

Rick Humphreys is a Senior Specialist Engineering Geologist at the State Water Resources Control Board in Sacramento, California. His primary

duties address water pollution caused by abandoned mines. Rick's areas of emphasis, include the study of mercury loading from Gold Rush era abandoned mines, as well as the study of other abandoned mine related issues such as acid mine drainage.

Rick has been employed by the State Board since 1986. During that time he has worked on landfill per-

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Reminder National Chemistry Week Activities

National Chemistry Week (NCW), October 16-22, 2005. This year's theme is "The Joy of Toys" and promises to

bring out the kid in all of us! Come celebrate with us at these fun local events:

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Receive the Newsletter Early!

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

November Dinner Meeting

Date: Thursday, November 17, 2005

Time: 6:00 Social Hour

7:00 Dinner

8:00 Lecture

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

Speaker: Rick Humphreys, State Water Resources Control Board
Legacy Mercury: How It Found Its Way into the San Francisco Bay

Cost: \$27.00 with the choice of Greek Chicken grilled with a tomato feta cheese sauce or Eggplant Parmesan Includes wine with dinner.

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

Reservations should be made by November 14th, 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 Wednesday the 15th, you will be invoiced following the dinner meeting.

Legacy Mercury, continued from front page
mits, underground tank removals, water quality monitoring regulations, and mining regulation. Rick is currently a specialist with respect to mining.

Prior to his position at the State Water Board, Rick worked for two consulting firms - Canonie Engineers and IT Corporation. He received both a BS and MS degree in Geology from San Jose State University.

Reminder, continued from front page

FREE ADMISSION!

Pez & Antique Toy Museum
Saturday, October 8, 10am-12pm
214 California Drive
Burlingame, CA

Convenient street parking is located in front of the museum.

www.burlingamepezmuseum.com

Light refreshments will be served and kids will receive their very own Pez dispenser & candy.



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FREE DEMONSTRATION!

David Katz'
"Chemistry in the Toy Store"
Saturday, October 15, 10:30am-11:30am

Abstract

The chemistry of everyday materials affects our lives in the form of consumer items that are used in the kitchen, laundry, bedroom, workshop, garden, and place of work. One place where many chemical items can be found is the toy store. Toys have been an area where chemical items are common, not just in the materials that



playthings are composed of, but many playthings themselves involve chemicals, chemical reactions, or the unique properties of a particular material. Whether it is a chemistry set, a silicone putty, a polymer with unusual properties, a material to make or mold another plaything, liquid crystals, or the batteries used to power mechanical or electronic items, the toy store is a unique place for chemical products.

This presentation will demonstrate the chemistry behind a number of toys, old and new, such as balloons, rubber balls, Silly Putty, shrinking plastics, Slime, liquid crystals, and disappearing ink, and discuss them with respect to their properties and how they work.

Biography

David A. Katz is a professor in the Department of Chemistry at Pima Community College and Science Education Demonstrator and Consultant. He was Associate Professor and Chairman of the Department of Chemistry at Cabrini College from 1993 to 1998, and Associate Professor of Chemistry at the Community College of Philadelphia from 1966 to 1993.

His primary interests are in undergraduate chemical education, science education for children, public understanding of science, the chemistry of consumer products, safety in the academic laboratory, and the history of chemistry, presenting workshops and publishing papers in these areas. He is best known for his demonstration programs and has gained international attention for his program Chemistry in the Toy Store which was originated in 1981 and appeared as a feature article in the 1988 Yearbook of Science and the Future of the Encyclopedia Britannica. Prof. Katz has presented lectures and demonstration programs at conferences, in schools and science centers throughout the United States, in Canada, Newfoundland, England, Ireland, France, Japan, Australia, New Zealand, Egypt, Hungary, and China. He has developed an integrated laboratory-lecture issues-based chemistry course for non-majors at Pima

Community College and is currently developing an integrated consumer chemistry course, along with an at-home laboratory program for an on-line chemistry course.

Prof. Katz's teaching achievements and contributions to chemical education have been recognized by the Chemical Manufacturers Association as recipient of the 1983 National Two-Year College Chemistry Catalyst Award, and by the Middle Atlantic Region of the ACS as recipient of the 1983 E. Emmet Reid Award for outstanding chemistry teaching at a small college.

De Anza College, Science Center
Room SC 1102
21250 Stevens Creek Boulevard
Cupertino, CA.

Link to campus maps and for directions to DeAnza College:

<http://www.deanza.edu/map/>

Posted signs will direct you to parking lot E for \$2 parking.

Light refreshments will be served and there will be NCW prizes for all kids!

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FREE DEMONSTRATION!

"Joy of Toys" Chemistry Booth
at Klutz Toy Store
Saturday, October 22, 12pm-2pm
572 College Ave., Palo Alto, CA
Come pick up your free NCW publications for kids, ChemMatters and Celebrating Chemistry and take a spin on the "Chemistry Wheel of Fortune". For more information regarding any of these special NCW events, or to volunteer your enthusiasm and knowledge, please email NCW Coordinator Abby Kennedy (akennedy@exelixis.com). Hope to see you there!



Chair's Message

Please be reminded, National Chemistry Week is October 16-22, 2005. This issue of the Newsletter invites you to participate in several NCW activities from October 8-22. It is time to stand up and be counted as Members of the American Chemical Society (ACS).

National Meetings

There are of course, two national meetings of ACS each year. The most recent, the 230th, was in Washington, DC, August 28-September 1, 2005, and drew about 15,000 attendees. The next ACS national meeting (231st) will be in Atlanta, GA, March 26-30, 2006, and the 232nd ACS national meeting will be in San Francisco, September 10-14, 2006. The San Francisco meeting expects to exceed 17,000 attendees. Our section and the California Section will co-host the San Francisco meeting so there is plenty to be done.

Regional Meetings

ACS local sections are grouped into 10 Regional Meetings based on geographic and/or traditional relations. The regional meetings each have a steering committee, which is usually incorporated and has built up a "sinking fund" to finance start-up

expenses for the host local section, which is a loan to the host section to be repaid from meeting revenues. The steering committee of each regional meeting must approve the petition and budget submitted for approval (about two years in advance).

We belong to the Western Regional Meeting, Inc., as one of 13 local sections. Recent Host sections have been California Los Padres, Southern California, and Sacramento. The 40th Western Regional Meeting, in Anaheim, hosted by Orange County Section, will be January 22-25, 2006. The proximity to ACS national meetings in San Francisco has been said to discourage regional meeting planners. Some thought has been given to having more than one host-section.

The 40th Western Regional Meeting will be in January 2006 instead of the usual October. It has an attractive program on something dear to California, water. Consider submitting an abstract and a paper; Chemical Abstracts tracks regional meeting presentations. Dr. Richard L. Deming, Cal State-Fullerton, is general chair; rdeming@fullerton.edu

John (Jack) Riley

Councilor's Report

The following Councilors represented the Santa Clara Valley Section at the nation 230TH ACS National Meeting in Washington, DC: Linda Brunauer, Bonnie Charpentier, Sally Peters, Jack Riley, Peter Rusch, Herb Silber, and Ean Warren. David Parker (alternate councilor) attended for Maureen Scharberg.

Meeting Attendance and Membership

- As of August 30, 2005, the ACS fall national meeting had attracted 13,040 registrants as follows: Regular attendees 7,584; Students 2,715; Guests 478; Exhibit Only 468; and Exhibitors 1,795. The 2006 national meeting registration fee of \$305 was announced.
- The Council was informed that as of July 31, 2005, total ACS membership was 155,567. This is an increase of 282 over the end of July 2004.

- ACTIONS OF THE COUNCIL -

Election Results

- The Committee on Nominations and Elections presented to Council the following slate of nominees for membership on the Committee on Committees for the 2006-2008 term: Cherlynlavaughn Bradley, William H. (Jack) Breazeale, Jr., Theodore M. Brown, Michael J. Brownfield, Peter K. Dorhout, Alan M. Ehrlich, Jurgen H. Exner, Mamie W. Moy, Connie J. Murphy and Don B. Weser. By written ballot the Council elected Cherlynlavaughn Bradley, William H. (Jack) Breazeale, Jr., Peter K. Dorhout, Mamie W. Moy, and Connie J. Murphy.
- The Committee on Nominations and Elections presented to Council the following slate of nominees for membership on the Council Policy Committee for the 2006-2008 term: R. Gerald Bass, Martha L. Casey, Alan B. Cooper, Catherine E. Costello, M. Elizabeth Derrick, Janan M. Hayes, Ann H. Hunt, Valerie J. Kuck, Bonnie A. Lawlor and Charles E. Thomas. Councilors were informed that Stephen T.

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Workshop for Teachers

November 5, 2005

The annual Teachers' Workshop co-sponsored by Roche and the Santa Clara Valley Section will be held on Saturday, November 5 on the Roche campus in Palo Alto. The theme for the workshop will follow the National Chemistry Week theme of the Joy of Toys. The workshop is designed for elementary and middle school teachers and will feature hands-on experiments and learning about the chemistry featured in each experiment. Resource materials and all of the materials to carry out the experiments in the classroom will be provided to teachers.

Volunteers are needed for set-up and clean-up. If you have some time to volunteer for this fun and worthwhile program, please contact Bonnie Charpentier at charpentierbon@yahoo.com.

Quigley was nominated as a petition candidate. By written ballot the Council elected R. Gerald Bass, Martha L. Casey, Janan M. Hayes, Valerie J. Kuck, and Bonnie Lawlor.

- The Council Policy Committee presented to the Council the following slate of nominees for membership on the Committee on Nominations and Elections: David E. Bergbreiter, David S. Crumrine, Steven A. Fleming, Michelle M. Francl, Peter C. Jurs, Roger A. Parker, Robert A. Pribush, Sara J. Risch, Herbert B. Silber and John T. Yates, Jr. By written ballot the Council elected Steven A. Fleming, Michelle M. Francl, Peter C. Jurs, Roger A. Parker, and Sara J. Risch.

Candidates for President-Elect and Board of Directors

The Council was informed that John W. Kozarich had withdrawn as a candidate for President-Elect. The candidates for the fall 2005 ACS national election were announced as follows:

President-Elect 2006

George E. Heinze, Rockland Technimed, Ltd, New York

Catherine T. Hunt, Rohm and Haas Company, Pennsylvania

Directors-at-Large – 2006-2008

James D. Burke, Retired, Rohm and Haas Company, Pennsylvania

Edwin A. Chandross, MaterialsChemistry, LLC, New Jersey

C. Gordon McCarty, Retired, Bayer Corporation; Adjunct Professor

University of South Carolina

Frankie K. Wood-Black, Conoco Phillips, Texas

Director, District III 2006-2008

Catherine C. Fenselau, University of Maryland

Madeleine M. Joullié, University of Pennsylvania

Director, District VI, 2006-2008

Bonnie A. Charpentier, Genitope Corporation, California

Stanley H. Pine, California State University

Other Council Business and Votes

- The Committee on Nominations

and Elections withdrew its petition on election procedures prior to the spring national meeting. This action was to allow the committee to discuss further the issues raised by the Committee on Constitution and Bylaws and to solicit additional input from councilors and other members. The withdrawn petition appeared in the agenda for information only.

- On the recommendation of the Local Section Activities Committee, the Council approved a petition for change in section territory for the Central New Mexico Local Section. The annexation is intended to improve services to the ACS members in the northern New Mexico area.
- On the recommendation of the Committee on Constitution and Bylaws, the Council approved revised charter bylaws for new local sections and for international chemical sciences chapters.

Special Discussion Item

A special discussion item was again put on the Council agenda for this meeting. ACS President William F. Carroll described the process being used to develop a Society vision hypothesis that is to be tested with members, customers, governance and other interested parties. Dr. Carroll described the methods used to get member input at the national meeting. ACS national meeting attendees reported 15 common themes to be considered as important to the Society's future. Dr. Carroll sought Council input on the most frequent themes: diversity, young people, governance, multidisciplinary, globalization and outreach. Councilors then engaged in a thoughtful, yet lively exchange of their vision of the Society's long-term future.

Reports

- The Board and Council received a status report on the activities of the Joint Board-Council Policy Committee Task Force on Governance Review. This task force is charged with conducting a review of the Society's governance

structure and Constitution and Bylaws to ensure that the Society has a governing framework to enable it to best fulfill its mission, meet member needs, and remain a world-class organization. Section Councilor Bonnie Charpentier serves on this Task Force. If you have any ideas for improvements to ACS structure or operations, please contact her.

The Society's Finances

- The Board, through the Committee on Budget and Finance, voted to include requests for funding of the following programs in the development of the Society's 2006 proposed budget:
 - o A two-year pilot program for ACS High School Chemistry Clubs (\$45,000 for 2 years)
 - o ACS activities in connection with the International Science and Engineering Fair (\$22,000 per year for 3 years)
 - o A Leadership Development Program that delivers a pool of capable, effective and motivated leaders for volunteer roles throughout the Society
 - o Reauthorization of, and continued funding for the Green Chemistry Institute
 - o A complete reinvention of the Society's Web Presence (\$9.484 million over 30 months)

Councilor Briefing on ACS Executive Compensation

- ACS Councilors were invited to a special briefing on Society executive compensation following the Council meeting. The briefing focused on process: what the Society executive compensation system consists of and how it is benchmarked.

Bonnie Charpentier



This ACS Director-at-Large's Activities

I was asked to provide a brief account of my last year running as a petition candidate and my short time on the ACS Board of Directors. Here goes...

How did this come about?

Last year in May 2004, I was asked to represent the ACS and the Board at the memorial service for Dr. Winifred Burks-Hauk in nearby San Mateo. Winifred who passed suddenly in her 50s was the past president of the National Organization of Black Chemists and Chemical Engineers (NOBCChE at www.nobcche.org). The ACS also pledged some funds for the memorial scholarship established in NOBCChE in her name. About the same time, I learned that Dr. Ted Tabor of Michigan had withdrawn from the election for ACS Director-at-Large leaving as the field: Dr. David Eaton and Dr. Judith Giordan. There was an initial ground swell of one who suggested that I consider running for this Board position as a petition candidate. If you haven't checked recently, the ACS election procedures are very, very specific. However, the ACS Office of the Secretary was very good about fielding my many questions.

I sent out some (actually many) letters and e-mail messages with my bio and election statement to many ACS members with a copy of the petition requesting their support. The effort snowballed. I was stunned with the positive response by ACS members. And in about 30 days (15 days prior to the July 15 deadline), many more of the 300 required ACS signatures were submitted for certification. Dr. David Rahni was also certified as a candidate. This established the field of 4 candidates (three by petition) for one director as was reported in C&ENEWS.

At the ACS meeting in Philadelphia I took part in the Town Hall on Sunday, and on Monday evening we had our usual CHAL chocolate tasting and free raffle at SCIMIX (Surprisingly, I had a number of comments about my clever way of reaching the electorate.) The candidates were announced again at

Council on Wednesday, and I later presented my first two papers in the Division of the History of Chemistry (HIST). One was on my tenuous connection to Joseph Priestley. I learned that I have five-times great grandparents Nicholas and Barbara Paul (He was a Revolutionary War militia man in Lehigh County PA.) buried less than 10 yards from the Priestley family. (This was confirmed by Ned Heindel of Lehigh, who quipped, "Well, Howard, your family lies with the greats, and that is as close as you get to greatness.") The second paper explored the connections between major US inventors and their colonial ancestors. (See www.howardpeters.net under Presentations).

The election was announced in C&ENEWS in September, and the ballots went out to the electorate, the members of the ACS Council. The nail-biting period ensued for 7 long weeks until I learned the election results - that I had won by about 30 votes. (It was an emotionally charged personal victory because my wife Sally who many of you know is also an ACS Councilor and eligible to vote commented, "Congratulations, I voted for you - this time!").

As a courtesy I was invited to observe the workings of the ACS Board of Directors meeting in early December in Washington, D.C. I attended this meeting and my politically correct response was that I found the experience to be invaluable - to see the personalities, positions and viewpoints around the table.

(My unofficial response was that growing up on a farm in Pennsylvania was great experience for this position, but you know, if you love the law and love sausage, you don't watch either of them being made. The Board, of necessity, at times makes sausage.)

My official Board duties since January have included:

January

- Special Board Budget Planning Workshop, Washington DC
- ACS Annual Leadership Conference in Baltimore, MD

- First ACS Director's Comment on Science Fairs in C&ENEWS, Jan. 31, p. 45.

February

- Represented Board (as a member of Grants and Awards Committee) at the PRF Advisory Committee at the PRF Advisory Committee Meeting in San Francisco, CA

March

- First official ACS Board Meeting in San Diego, CA
- Became an official member of the Board Committee on Grants and Awards

April

- Participated in local section mock/interview session at U. San Francisco (an ACS local section joint special innovation project)

May

- Intel Int. Sci. and Engineering Fair, Phoenix, (as invited judge for chemistry and ACS had its first information booth).
- Presented an Appreciation Award to Supelco (for 30 years as the sponsor of the ACS Chromatography June)
- Attended My Second Board of Directors Meeting in Baltimore, MD.
- Represented ACS Board at the NORM regional meeting in Fairbanks, Alaska.

At the San Diego meeting in March, I presented a paper on "Patriots, Immigrants and Patentees in the National Inventors Hall of Fame" on Sunday, and on Monday we had our usual SCIMIX Chocolate Fest. For the upcoming Washington meeting, I have learned that I have a continuing talk in HIST on Immigrants, Patriots and Chemical Inventors in the National Inventors Hall of Fame. Also, I just learned that I have a poster presentation accepted for PacifiChem in December concerned with important chemical inventors of the Pacific Basin.

You should, as an ACS member, be very proud of this Board. My experience (albeit short) has been very positive working cooperatively and diligently with committed long-time ACS members (and in our usual all-volunteer mode) at a very high

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professional level. The ACS staff I have dealt with thus far are committed, have stepped up to the plate and gone that extra mile to accomplish some important projects having a very short time fuse.

Some topics under consideration by the Board include: membership

retention, PubChem, Chem Abstracts and free access to journal articles, immigrant visas, evolution, globalization, outsourcing, chemistry.org, etc. Can you suggest some other important topics that should be of particular interest to the Board?

So far, it has been a rewarding

(and fun) ride and I expect it to continue. If you have comments or questions, I can be reached at peters4pa@AOL.com.

Thank you for this opportunity to serve ACS.

Howard Peters



Election 2005 – District VI Director, 2006 - 2008

Bonnie A. Charpentier Candidate

The ACS Board of Directors is responsible for managing change. We have many wonderful programs that need to be sustained, including publications, support of chemistry education, and public outreach. The ACS is at a time when fundamental change is needed and is possible; I want to help lead positive change in the following areas:



- We need to streamline our Byzantine structures and processes to gain efficiency and improve communication across the many groups within the Society. This would improve planning for change, member access to information, and collaboration across scientific disciplines and with other organizations. A more streamlined society would allow the energy and ideas of our members and staff to further blossom.
- The Board must ensure transparency and appropriate input to respond to member needs. Issues and decisions must be clearly and honestly communicated to the membership.
- We must exercise prudent fiscal management reflecting the right priorities.

I am grateful for the opportunities ACS has given me. Through service in local sections, divisions and national committees I've learned a lot about ACS, and learned to sustain worthwhile programs while implementing

new initiatives. I've collaborated successfully to establish cooperative programs across Sections, Divisions, and with universities, K-12 schools and other organizations.

In my professional life I've experienced the joys and frustrations of working at the bench and I've learned to manage a budget, make decisions, and value the importance of teamwork and collaboration in growing a company or a society.

The Director of District VI is responsible for taking your ideas, aspirations and needs to the Board for action, for informing you about ACS issues and opportunities, and for setting priorities, decision-making and managing change. If you give me the opportunity, I pledge to work diligently to make my experience and dedication benefit you and our Society.



Stanley Pine Candidate

Overall, the ACS is doing well, yet rapid and profound changes in our profession and our supporting industries dictate that we must look to the future and alter our programs to best serve the membership. Some issues on which I will focus are:



INFORMATION RESOURCES - ACS Publications and Chemical Abstracts have introduced electronic publishing, structure-based searching, and novel search engines such as SciFinder. But rapid changes in information technology, competing pub-

lishers, as well as various moves toward "open access publishing" require that the Board encourage innovative changes in our operations in order to continue to provide ACS members easy access to the best information at the lowest cost.

THE CHEMISTRY ENTERPRISE - We are all aware of the influence of "globalization" on the chemical industry and its effect on our profession. The Board Task Force on Multidisciplinarity will bring recommendations to us in the near future on how best to face the issues and concerns. We cannot neglect this reality!

EDUCATION - The ACS must continue to step out and promote changes in the way science is taught and learned.

FINANCES - As national and world economics change, we need to continue to be vigilant with our resource base and look for new sources of support. Our 2005 financial planning conference developed a set of goals and priorities to direct our fiscal decisions for the future.

ACS GOVERNANCE - The joint Board-CPC Task Force on Governance Review is now underway. Its recommendations must lead to changes in our governance structure to more effectively include more of our generous volunteer members while enhancing the speed and efficiency through which actions can be implemented.

I will value your support for my continuing service on the Board of Directors as your representative from District VI. For more information visit www.stanleypine.org.

M.S. Engineering Specialization in Biomedical Devices

The College of Engineering at San Jose State University (SJSU) has initiated a graduate level interdisciplinary curriculum in Biomedical Devices as a specialization area within the Master of Science in Engineering (MSE) program.

The curriculum was developed in close consultation with industry professionals, and builds upon the existing strengths of SJSU's College of Engineering. The 30 semester credit hours program includes the MSE core that provides breadth, and the concentration area core, electives and thesis or project that develop depth.

The breadth requirement within the MSE Program requires one class in engineering mathematics, which includes statistics and design of experiments, and one class in engineering management, which includes entrepreneurship and intellectual property.

The Biomedical Devices core consists of five classes: Physiology for Engineers, Biomaterials, Biomechanics, Biomedical Device Design and Principles, and Current Topics in Biomedical Devices. Further depth is developed by appropriate choice of electives from existing courses and the thesis or project, which is expected to focus on real-world problem solving.

The program has been designed to (a) educate students with back-

ground in engineering and the sciences and prepare them to enter the biomedical devices industry, and (b) provide engineers in the biomedical devices industry with continued education and professional development. Classes are scheduled for the late afternoon or early evening, to facilitate attendance by working professionals.

Applications from prospective stu-

dents who have a B.S. in one of the engineering disciplines, or chemistry or physics, are currently being accepted. Prerequisites will be determined based on the applicant's background. Interested individuals are encouraged to contact the Biomedical Devices Specialization Area Coordinator, Professor Guna Selvaduray, by phone (408-924-3874) or by email (gunas@email.sjsu.edu).

Further information can also be obtained from the MSE Program website at www.engr.sjsu.edu/mse

California Section American Chemical Society Entrepreneurship Day Program

- DATE:** Saturday, November 12, 2005
- PLACE:** Saint Mary's College, Soda Center, Orinda Room
1928 St. Mary's Road, Moraga, CA 94556
- SPEAKER:** Dr. Sadiq Shah, Director, Western Illinois Entrepreneurship Center, Western Illinois University
- PROGRAM:** Sponsored by the CAT (Career Assistance & Transition) group, Employment Committee, and Women Chemists Committee of the California Section of the American Chemical Society and the Saint Mary's College School of Economics & Business Administration
- 9:30am** Breakfast Social with coffee and pastries
- 10am - 12pm** "Being a Scientist to Being an Entrepreneur – Business Start-up Considerations" plus Q & A

As scientists we are educated to create intellectual property. This intellectual property becomes the economic engine for our society. However, our education does not prepare us for managing and commercializing the intellectual property. The 21st century economy is for those who are ready to seize entrepreneurial opportunities. This session is designed for scientists who may be contemplating stepping into an entrepreneurial realm either today or a few years from now. The session will cover the various aspects of business start-up considerations, IP protection, developing a business plan, and financing mechanism.

Noon Box Lunch (ham, roast beef, turkey, tuna, or vegetarian sandwich plus dessert and beverage)

1pm - 3pm "SBIR and STTR Funding for Start-ups" plus Q & A

Often times funding for feasibility studies and the prototype development for start-ups is a major challenge. It turns out that federal government offers \$2.2 billion dollars on competitive basis to support entrepreneurs. Can this funding support technology based start-ups? How do the Small Business Innovation Research (SBIR) and the Small Business Technology Transfer Research (STTR) programs work? What federal agencies offer these programs, what are the requirements? The workshop will cover an overview of the SBIR and STTR programs, and what the federal agencies are looking for in your applications.

COST: \$10/person (half price for students and unemployed)

RSVP: by November 4th with the California Section office at (925) 287-8055 or office@calacs.org.



Become a Student Interview Coach

Help Teach Interviewing Skills or Review Resumes

The program of workshops to help undergraduate students with interviewing skills and resume preparation is starting up for the fall. The workshops have been very enthusiastically received on campuses visited to date. We are planning to expand our campus visits during the next academic year. The more volunteers we have trained, the more students we can reach. Volunteer opportunities include the following:

- Become a coach
- Help with set-up on campuses
- Organize materials, supplies and food for student workshops
- Help advertise workshops
- Work with students on resumes – either face-to-face or via email

Please consider using your experience to help young scientists and engineers just starting their careers. For more details or to volunteer please contact Bonnie Charpentier at bcharpentier@genitope.com.

As we go to press, the exact times and locations for the volunteer training and the first campus visits have not been finalized. Further details will appear on the Section website at www.scvacs.org.

CHEMEMPLOYMENT ABSTRACTS OCTOBER 2005

CHEMEMPLOYMENT ABSTRACT 3814

Position Title: Core Technology Team Product Formulator

Job Description: Specialty Product Lines including those sold for use in Railroad and Natural gas engines and Tractor Hydraulic Fluids.

QUALIFICATIONS DESIRED:

Education: Bachelors required, Master's preferred. In Chemistry or Chemical Engineering

Experience: Contributes to team success & value diversity; knowledge of lubricating oils and additives used in the them; knowledge of chemistry and ability to apply it to formulate products for engine, hydraulic and transmission applications; analytical skills; communication skills; safety.

LOCATION, SALARY, AND MAIL ADDRESS

Job Location: Richmond, CA

Employer Description: Chevron Oronite Company, a subsidiary of Chevron Corporation, is a leading developer, manufacturer and marketer of performance additives for fuels and lubricating oils. Please visit http://www.chevron.com/oronite/about_oronite/ for more information.

Application Instructions: To apply to or to learn more about this position, please go to www.chevron.com/about/careers/ then look for "We're Hiring!" Click on: "Search Jobs" to view Chevron job opportunities currently available. Individuals must follow the Chevron's process by applying online.

CHEMEMPLOYMENT ABSTRACT 3815

Position Title: Organic Chemist, Ph.D.

Job Description: Versatile organic chemist sought for research and development work in a small startup company developing bioanalytical instrumentation systems. The majority of the work will be hands-on in the lab. The successful candidate will be responsible for: -Preparation of small molecules and polymeric materials in support of research and development activities. -Development and evaluation of new materials to enhance system performance.

QUALIFICATIONS DESIRED:

Education: Ph.D. in organic chemistry or related discipline

Experience: Knowledge or experience in some or all of the following areas: -polymer chemistry -photochemistry -small molecule synthesis -protein chemistry -dye chemistry -Solid skills in experimental design, execution, and data analysis are highly desirable. -Industry experience is preferred.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Palo Alto, CA

Salary: Commensurate with experience.

Employer Description: Startup company developing bioanalytical instrumentation systems.

Application Instructions: Candidates should forward their resume, along with a research summary describing selected projects relevant to the above qualifications, to hr@cellbiosciences.com, referencing job code CM-031 in the subject line.

CHEMEMPLOYMENT ABSTRACT 3816

Position Title: Scientist

Job Description: With minimal supervision, defines problems, develops approaches, and performs physical characterization of materials to support product development activities. Develops, executes, and troubleshoots analytical methods for physical characterization at all phases of development.

QUALIFICATIONS DESIRED:

Education: Ph.D. in Pharmaceutical Sciences (or related field)

Experience: 2 years experience after Ph.D. is required (post-doctoral work may serve as experience); exceptional non-Ph.D.s with demonstrated capabilities and/or significant experience might also be considered.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: San Carlos, CA

Employer Description: Nektar Therapeutics (pronounced nektar) provides a portfolio of leading drug delivery solutions that enable the development of high-value pharmaceutical products.

Application Instructions: Job ID: 1678-331-R. To view a complete job description and to apply, please visit our Job Opportunities website at www.nektar.com/jobs. When applying, please be sure to reference SCVACS.

CHEMEMPLOYMENT ABSTRACT 3817

Position Title: Senior Applications Chemist

Job Description: The Senior Applications Chemist will work closely with sales representatives, customers and R&D to identify applications relevant to the pharmaceutical & biopharmaceutical markets. The initial focus will be on a high throughput separations device.

QUALIFICATIONS DESIRED:

Education: Should have an MS or preferably a PhD in analytical chemistry, biochemistry, molecular biology or related field.

Experience: 5 to 10 years of experience in applications development; expert in analytical techniques, specifically chromatographic separations, commonly used in pharmaceutical and bio-pharmaceutical companies; knowledge of the workflow and day-to-day activities in a drug discovery/development company; knowledge of current and emerging trends in high performance chromatographic separation applications.

LOCATION, SALARY, MAIL ADDRESS:

Location: Pasadena, California

Employer Description: Nanostream is looking for dynamic professionals to join a multi-disciplinary team that is changing the world of biotechnology and genomics. We have developed a proprietary process to design and manufacture microfluidic devices more quickly and efficiently than previously possible. We are implementing real-world protocols in our devices and need help to speed this development.

Application Instructions: Please send resumes to HR@nanostream.com

CHEMEMPLOYMENT ABSTRACT 3818

Position Title: Staff Scientist (Analytical Chemist) SESB-SCHAB

Job Description: Responsible for developing qualitative and quantitative chemical laboratory methodologies for high throughput screening. Also, maintaining analytical instrumentation, hands-on setting-up and debugging custom high-throughput screening hardware, engaging in data analysis and project assessment, conferring with research partners, and preparing technical papers and reports.

QUALIFICATIONS DESIRED:

Education: MS in Chemistry, Chemical Engineering, or related field.

Experience: 3+ years experience in gas phase analysis, including GC, MS, FTIR. Experience with ICP_OES and HPLC is a plus. Experience with gas-phase chemical reactors and analytical software packages. Excellent communications skills.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Sunnyvale, CA

Salary: Competitive compensation and excellent benefits

Employer Description: Symyx Technologies is the pioneer of high-throughput experimentation for the discovery of materials. The company has over 250 issued patents and over 400 patent applications worldwide.

Application Instructions: Send resume to: hrstaffing@symyx.com. Look at the Company Web page at www.symyx.com for more details.

CHEMEMPLOYMENT ABSTRACT 3819

Position Title: Chemical Engineer - SESB-6CHAB

Job Description: Symyx Technologies needs a highly motivated and talented individual to join our team of Scientists and Engineers. This individual will be responsible for the development of new technologies & systems for the screening of materials.

QUALIFICATIONS DESIRED:

Education: MS in Chemical Engineering, or related field required, and a Ph.D. is desired.

Experience: 5+ years of direct hands-on experience designing and analyzing novel devices in the areas of chemical instrumentation, micro-chemical reactors, micro-fluidic devices and MEMS sensors. Ability to work in a group, and individually, in a fast-paced environment. Excellent communications skills. Diverse set of skills and talents is a plus.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Sunnyvale, CA

Salary: Competitive Salary & excellent benefits

Employer Description: Symyx Technologies is the pioneer of high-throughput experimentation for the discovery of materials.

Application Instructions: Send resume to: hrstaffing@symyx.com. (Put SESB-6CHAB in heading) Go to the company Web site at www.symyx.com for more information

CHEMEMPLOYMENT ABSTRACT 3820

Position Title: Staff Scientist SNOK-2CHAB

Job Description: Symyx Technologies is advancing sensors and instrumentation into the laboratory and process industries. The Sensor Business has an immediate need for someone who can contribute to the advancement of disruptive sensor technology within its research and development organization.

QUALIFICATIONS DESIRED:

Education: Masters or Ph.D. in Science, or a degree in Physics or Analytical Chemistry.

Experience: 5+ years experience working as a Scientist. Strong, literate understanding of measurement science, signal processing and analytical instrumentation. Solid proficiency of mathematics Experience in sensor, process instrumentation industry or related discipline Experience transitioning R&D developments to engineering & manufacturing processes.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Sunnyvale, CA

Salary: Competitive compensation and excellent benefits

Employer Description: Symyx Technologies is the pioneer of high-throughput experimentation for the discovery of materials.

Application Instructions: Send resume to: hrstaffing@symyx.com. (Put SNOK- 2CHAB in the heading). See the company Web site at www.symyx.com for more information.

CHEMEMPLOYMENT ABSTRACT 3821

Position Title: Staff Scientist - Job Code DTJT-9CHAB

Job Description: Join the Symyx Discovery Tools Chemistry group. This will involve hands-on work developing, implementing and supporting next generation high throughput workflows for the pharmaceutical and chemical industries.

QUALIFICATIONS DESIRED:

Education: Masters in Chemistry, Chemical Engineering or related field required, a Ph.D. desired.

Experience: 2+ years of experience developing high throughput workflows. Experience in high throughput synthesis and screening. Ability to interact with multiple disciplines, across a number of fields, including engineering and software developers. Excellent written and verbal communications skills. Comfortable working independently and as part of a team. Able to travel as required, both domestically and internationally.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Sunnyvale, CA

Salary: Competitive compensation and excellent benefits

Employer Description: Symyx Technologies is the pioneer of high-throughput experimentation for the discovery of materials.

Application Instructions: Send resume to: hrstaffing@symyx.com. (Please put Job Code DTJT-9CHAB in the subject)

CHEMPLOYMENT ABSTRACTS OCTOBER 2005

CHEMPLOYMENT ABSTRACT 3822

Position Title: Senior Biochemist

Job Description: Cambrios is looking for a senior biochemist, with expertise in, Protein chemistry, Protein engineering, Peptide chemistry, Protein structure/function relationships, Biochemistry of molecular affinity and protein/ligand interactions, Nucleic acid chemistry, Organic chemistry, Biomolecule/material science interface.

QUALIFICATIONS DESIRED

Education: advanced degree in biochemistry or related field

Experience: Candidates must be extremely flexible, self-motivated, and have good communication skills. Ability to find solutions to complicated chemical problems that involve interactions between biomolecules (proteins, peptides, DNA, etc) and inorganic/metallic surfaces or nanoparticles. A proven track record of working in both R&D and product development is greatly desired.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Mountain View, CA

Employer Description: Cambrios' mission is to use biological technology to transform the way commercial electronic products are made, expand their impact, and reduce their environmental cost.

Application Instructions: Send resume/cover letter to careers@cambrios.com "Biochemist position" in subject line.

CHEMPLOYMENT ABSTRACT 3823

Position Title: Research (Staff) Scientist

Job Description: Responsible for the synthesis and characterization of organic and inorganic compounds. Synthesis and development of processes used in the manufacturing of functional electronic materials; Analytical method development and physical/chemical characterization of organic and inorganic thin films.

QUALIFICATIONS DESIRED

Education: MS or Ph.D. in Chemistry, Materials Science or Chemical Engineering with strong interdisciplinary skills across these disciplines

Experience: 3-5 years of relevant industry exp; Detailed knowledge & experience with synthetic chemistry, lead optimization and structure activity relationship; surface chemistry and thin film fabrication/characterization; air-sensitive reagents and processes; analytical instrumentation, including NMR, FTIR, UV-VIS, XRD, TGA, DSC, AFM, SEM and modern chromatographic techniques. Semiconductor industry experience.

LOCATION, SALARY, MAIL ADDRESS

Job Location: San Jose, CA

Salary: Highly competitive compensation and benefits packages. Relocation assistance provided.

Employer Description: Intermolecular, Inc. is a venture backed startup company bringing molecular engineering solutions to the electronics industry.

Application Instructions: Please send resumes to: megan@intermolecular.com

CHEMPLOYMENT ABSTRACT 3824

Position Title: Research Associate

Job Description: Responsibilities include: Analytical method development & physical/ chemical characterization of organic and inorganic thin films; Analysis of material libraries, including instrument maintenance, preparing reagents, establishment of analytical conditions, performance of analysis, data handling, and data analysis and reporting.

QUALIFICATIONS DESIRED

Education: BS or MS in Chemistry, Materials Science or Chemical Engineering with strong interdisciplinary skills across these disciplines

Experience: Extensive experience in surface analysis and thin film characterization; air-sensitive reagents & processes; analytical instrumentation, including NMR, FTIR, UV-VIS, XRD, TGA, DSC & modern chromatographic techniques. Strong abilities in Atomic force microscopy & other relevant analytical techniques. Knowledge of solution-phase synthesis & safe lab practices. Semiconductor ind experience.

LOCATION, SALARY, MAIL ADDRESS

Job Location: San Jose, CA

Salary: Highly competitive compensation and benefits packages.

Relocation assistance provided.

Employer Description: Intermolecular, Inc. is a venture backed startup company bringing molecular engineering solutions to the electronics industry.

Application Instructions: Please send resumes to: megan@intermolecular.com

CHEMPLOYMENT ABSTRACT 3825

Position Title: Sr Scientist Anal Development

Job Description: Develop anal. methodology for testing delivery systems, including Transdermals, etc. Research & develop assay & impurity profle methods. Develop novel methodologies for drug prod characterization. Interprets results to make recommendations & uses statistical math techniques to analyze results.

QUALIFICATIONS DESIRED

Education: Ph.D./ Masters in analytical chemistry or related discipline

Experience: Must have at least 3-5 years hands-on exp in HPLC including calibration, validation & method development. Strong Excel, Word & Power Point skills. Must have excellent communications and interpersonal skills with ability to work global environment. Must have demonstrated ability to multitask in high pressure, changing conditions.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Redwood City, CA

Employer Description: CORIUM INTERNATIONAL specializes in dermal, transdermal, mucosal and transmucosal delivery systems, wound care products, medical devices, and diagnostic products.

Application Instructions: Candidates should submit their resume, via email only to jobs@coriumintl.com, stating the position title (Senior Scientist Analytical Development) in the subject line. Corium is No recruiter or agency contacts please. For additional information please visit our website at www.coriumgroup.com

CHEMPLOYMENT ABSTRACT 3826

Position Title: Research Associate I/II/III Pharmaceuticals

Job Description: In this key role, the Research Associate will be relied on to provide analytical support for pre-clinical and clinical studies. This position will be primarily responsible for analytical method development and validation, release testing, and stability studies for drug substances and drug products. The successful candidate will also be accountable for conducting physicochemical property studies including measuring partition properties, solubility, dissociation constants, chemical purity and chemical stability, in addition to preparing analytical and stability reports.

QUALIFICATIONS DESIRED

Education: Success at this position will require a BA/BS or equivalent in Chemistry or another related field. **Experience:** Success at this position will require a BA/BS or equivalent in Chemistry or another related field, coupled with 0-5 years experience for applicants applying for the level I or II positions, or 5+ years experience for candidates applying for the level III position. Candidates must be familiar with Qualitative and Quantitative Analytical Chemistry using wet chemistry and instrumental analysis. Requires HPLC skills including chromatography software usage, along with expertise in NMR, MS, UV/VIS and IR Spectroscopy. Dissolution technique and Analytical method development and validation experience is also essential.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Located in the San Francisco Bay Area, our park-like campus offers a wide array of professional amenities, including an on-site fitness center.

Employer Description: At Roche Palo Alto, we are creating new drug candidates aimed at viral and inflammatory diseases, and autoimmune, central nervous system and genitourinary disorders. Our formula for success: highly talented, results-driven scientists and a world-class environment equipped with cutting-edge technologies. Backed by the resources of a global enterprise, our robust product pipeline demonstrates our ability to produce results and formulate the medicines of the future. If you would like to contribute to one of today's most successful drug discovery companies, maybe it's time you discover Roche.

Application Instructions: To learn more about Roche and to apply online, please visit our career website at <http://paloalto.roche.com>, and search by keyword: Research. Job Code: 100287. As an equal opportunity employer, we are committed to workforce diversity.

CHEMPLOYMENT ABSTRACT 3827

Position Title: Organic Chemist, Ph.D.

Job Description: Versatile, interdisciplinary organic chemist sought for research and development work in a small startup company developing bioanalytical instrumentation systems. The majority of the work will be hands-on in the lab. The successful candidate will be responsible for: -Preparation of small molecules & polymeric materials in support of research and development activities. Development and evaluation of new materials to enhance system performance.

QUALIFICATIONS DESIRED

Education: Ph.D. in organic chemistry or related discipline

Experience: Knowledge or exp in some or all of the following areas: polymer chem, photochem, small molecule synthesis, conjugation chem, protein and peptide chem, dye chemistry. Solid skills in experimental design, execution, and data analysis are highly desirable. Able and willing to do "whatever it takes" to make a successful product. Industry experience is preferred.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Palo Alto, CA

Salary: Commensurate with experience

Employer Description: Startup company developing bioanalytical instrumentation.

Application Instructions: Candidates should forward their resume, along with a research summary describing selected projects relevant to the above qualifications, to hr@cellbiosciences.com, referencing job code CM-031 in the subject line.

CHEMPLOYMENT ABSTRACT 3828

Position Title: Organic Chemist, MS/BS

Job Description: Versatile organic chemist sought for research and development work in a small startup company developing bioanalytical instrumentation systems. The majority of the work will be hands-on in the lab. The successful candidate will be responsible for: Preparation of small molecules, labeled proteins and peptides, polymeric materials, and reagents in support of research and development activities. Development and evaluation of new materials to enhance system performance.

QUALIFICATIONS DESIRED

Education: MS/BS in organic chemistry or related discipline

Experience: Knowledge or experience in some or all of the following areas: small molecule synthesis, polymer chemistry, conjugation chemistry, protein chemistry, dye chemistry, photochemistry. Solid skills in experimental design, execution, and data analysis are highly desirable. Able and willing to do "whatever it takes" to make a successful product. Industry experience is preferred.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Palo Alto, CA

Salary: Commensurate with experience

Employer Description: Startup company developing bioanalytical instrumentation.

Application Instructions: Candidates should forward their resume, along with a research summary describing selected projects relevant to the above qualifications, to hr@cellbiosciences.com, referencing job code CM-065 in the subject line.

CHEMPLOYMENT ABSTRACT 3829

Position Title: QA Specialist II

Job Description: Performs a variety of QA activities to ensure compliance with applicable regulatory requirements, including review of manufacturing batch records and QC data for in-process and finished drug substances (APIs), evaluation of process deviations and program and process maintenance to ensure high quality products and compliance with GMPs and GLPs.

QUALIFICATIONS DESIRED

Education: BS or MS in Chemistry, Biochemistry or Biology preferred.

Experience: At least 3 years applicable exp. Must have working knowledge of QA principles, concepts, systems, industry practices, and standards. Must be able to provide solutions to moderately complex to semi-routine problems. Must be able to apply knowledge of current GMPs and/or GLPs on a daily basis. Must have strong verbal, technical writing and interpersonal skills.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Foster City, CA 94404

Salary: Depends on experience

Employer Description: Gilead Sciences is a biopharmaceutical company that discovers, develops and commercializes innovative therapeutics in areas of unmet medical need.

Application Instructions: Please submit your resume, referencing Job # RF 5-322, via the careers section on the Gilead website at www.gilead.com.

CHEMPLOYMENT ABSTRACT 3830

Position Title: Analytical / Quality Assurance Chemist

Job Description: Overall management and operation of the Quality Department. Responsibility for analytical determinations of chemical products for the micro-electronics industry. Operating, maintaining and troubleshooting ICP-MS, ion chromat., other analytical instruments. Working with production staff, and with customers on a wide range of Quality-related issues.

QUALIFICATIONS DESIRED

Education: B.S. w/ 5 years analytical chemistry or Ph.D. in Analytical/Physical chemistry.

Experience: Experience with MS, preferably ICP-MS, HPLC and related techniques, some electrochemical background is highly desirable. Working knowledge of principles of anal chem and Quality programs (TQM, 6-sigma, etc.). Exp in generating Power Point presentations & making presentations to customers, especially on Quality/Quality Assurance topics.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Oakland, CA

Salary: \$50K - \$70K, depending on education, qualifications and experience

Employer Description: Established in 1970, Shape Products provides chem manuf and analytical chem solns for electronics, food and beverage, & other industrial applications.

Application Instructions: please submit resume to: ddaniel@shapeproduct.com

CHEMPLOYMENT ABSTRACT 3831

Position Title: Production/Formulation Chemist

Job Description: Prepare analytical standards from stock solutions, verify specifications with analytical instrumentation (autotitrators, UV-VIS, conductance measurement systems, HPLC, etc.). Write Standard Operating Procedures (SOP) and manage and control documentation records in accordance with ISO 9001 standards.

QUALIFICATIONS DESIRED

Education: B.S. Chemistry (minimum)

Experience: Preferably 2 or more years experience in a chemical manufacturing/production environment, or in an analytical laboratory. Good record-keeping skills and experience with ISO standards is highly preferred.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Oakland, CA

Salary: Excellent compensation, commensurate with education and experience

Employer Description: Established in 1970, Shape Products provides chemical manufacturing and analytical chemical solutions for electronics, food and beverage, and other industrial applications.

Application Instructions: e-mail resume to: ddaniel@shapeproduct.com



SANTA CLARA VALLEY SECTION

2005 Section Officers

Chair: John F. Riley	650-328-4036	jfriley2004@sbcglobal.net
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Secretary: Karl Marhenke	831-479-6263	karlmar@armory.com
Treasurer: Herb Silber	408-924-4954	hbsilber@sjsuvm1.sjsu.edu
Past-Chair: George Lechner	408-226-7262	george.lechner@usa.xerox.com

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



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

OCTOBER 2005 NEWSLETTER TOPICS:

Legacy Mercury - How It Found Its Way into San Francisco Bay
Reminder- National Chemistry Week Activities
November Dinner Meeting
Chair's Message
Councilor's Report
Workshop for Teachers
This ACS Director-at-Large's Activities
Election 2005 - District VI Director, 2006-2008
M.S. Engineering Specialization in Biomedical Devices
California Section American Chemical Society
Entrepreneurship Day Program
Become a Student Interview Coach

CHEMEMPLOYMENT ABSTRACTS

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

FUTURE MEETINGS

Oct 8	National Chemistry Week Celebrating The Joy of Toys
Oct 8	The Joy of Toys, NCW Pez Museum Burlingame, CA
Oct 15	David Katz – KABOOM! Chemistry Demo Cupertino, CA
Oct 22	The Joy of Toys, NCW Klutz Store Demonstration Palo Alto, CA
Oct 17-19	ACS ProSpectives Advances in Structure-Based Drug Discovery Philadelphia, PA
Nov 5	10th Annual Teacher's Workshop Palo Alto, CA
Nov 17	Monthly Dinner Meeting Rick Humpfreys Santa Clara, CA
Dec 15-20	PacifiChem 2005 Honolulu, HI



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