

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

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May Dinner Meeting Chemical Approaches to Studying Glycosylation

Dr. Carolyn Bertozzi

Abstract

A major lesson from eukaryotic genome sequencing projects is that the absolute number of genes an organism's genome encodes is not the best parameter for defining complexity of function. It appears that the complex functions associated with human health and disease are determined by combinatorial expansion of genomic information in the form of posttranslational modifications. Of these, the most complex and ubiquitous is glycosylation, highlighting the importance of glycobiology in the postgenomic era. This presentation will focus on new chemical approaches for perturbing and studying oligosaccharide function within the context of the cell surface.

Biography

Carolyn Bertozzi, Ph.D., is Professor of Chemistry and Molecular



and Cell Biology at UC Berkeley, Head of the Chemical Biology Department at the Lawrence Berkeley National Laboratory (LBNL), and an investigator of the Howard Hughes Medical Institute. She is also co-founder of Thios Pharmaceuticals, a newly formed company in the Bay

Area focusing on drug development in sulfation pathways. Dr. Bertozzi's research at UC Berkeley spans the disciplines of chemistry and biology with an emphasis on studies of cell surface glycosylation pertinent to cancer, inflammation and bacterial infection. Her lab has identified new targets for therapeutic intervention and developed technologies for studying glycosylation changes in disease states. At LBNL, Prof. Bertozzi's group works on the design of biomimetic materials for a

continued on next page

May Dinner Meeting

Date: Thursday, May 22, 2003

Time: 6:00 Social hour
7:00 Dinner
8:00 Lecture

Location: Biltmore Hotel & Suites
2151 Laurelwood Road
Santa Clara, CA 95054
408-988-8411

Speaker: Dr. Carolyn Bertozzi
Chemistry Department
UC Berkeley
Studying Glycosylation

Cost: \$27.00
Beef Stir-Fry/mild Szechuan Sauce or Stuffed Peppers/
Polenta and Marinara Sauce
Including wine with dinner

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

Reservations should be made by May 19th stating your name, address, company affiliation, number of people in party, and menu selection.

If you are unable to honor your reservation, you will be invoiced following the dinner meeting.

❁ April Dinner Reminder ❁

Join the local section on April 24th as the Stanford University Student ACS Affiliates present posters from the 2002-2003 academic year. After dinner, several students will be giving oral presentations. The dinner choice is either Teriyaki Steak or Vegetarian Crepes. Visit the website (www.scvacs.org) or contact Shirley Radding (408-246-2564, 408-296-8625 Fax) for more information or to sign-up, by April 20th.

variety of applications. Her work has resulted in over 100 scientific publications and patents. In addition to her academic pursuits, Dr. Bertozzi is a member of numerous professional societies, national and international scientific review and evaluation committees, and several journal editorial boards. Her awards include the Irving Sigal Young Investigator Award of the Protein Society, the ACS Award in Pure Chemistry, Merck Academic Development Program Award, Glaxo Wellcome Scholars' Award, Presidential Early Career Award in Science and Engineering, MacArthur Foundation Fellowship, Camille Dreyfus Teacher-Scholar Award, Arthur C. Cope Scholar Award, Horace S. Isbell Award in Carbohydrate Chemistry, Alfred P. Sloan Research Fellowship and the Donald Sterling Noyce Prize for Excellence in Undergraduate Teaching.

Chair's Message

The San Jose Mercury News headline on March 1, 2003 read "Valley of the Grim", noting that one in five jobs in Silicon Valley have been lost since the job market peaked in December 2000. Many of us have experienced and continue to experience budget cuts, uncertain job security and lay-offs. As your professional society, how can the ACS-SCV Section assist you in your professional career as a chemist or chemical engineer, especially in these uncertain times? Your ACS-SCV Executive Committee represents the diversity of the chemical industries present in Silicon Valley. We are interested in your suggestions for local professional development activities and programs.

Our "Chemployment" feature of our newsletter is one project that

provides employment opportunities for our members. As you have probably observed, we have received less ads for "Chemployment". Please encourage your employer to post job opportunities in "Chemployment" and contact Shirley Radding for more information.

Revenue from "Chemployment" supports your ACS-SCV section's activities, especially subsidizing our dinner meeting expenses. With the decline in "Chemployment" revenue, your Executive Committee has been examining ways to reduce the Section's expenses. One possibility is to distribute the monthly newsletter electronically instead of mailing it to our members. We believe that this change would substantially reduce our monthly postage bill. For electronic distribution, members would be sent an e-mail message notifying them that the newsletter was posted on our web site. We are exploring how to manage and update our Section's e-mail database. Also, in the next month or two, we will be designing a survey to query members to determine your preference, an electronic copy or a paper copy.

Turning to our monthly meeting for April, we will host students from Stanford University on Thursday, April 24, at the Biltmore Hotel in Santa Clara. They will present their posters before dinner and give a few oral presentations after dinner. I hope you can attend and show your support to these young chemistry professionals!

Our May dinner meeting will feature Dr. Carolyn Bertozzi from UC Berkeley. Further information on her seminar is found within this newsletter.

Maureen Scharberg

P.S. Glow sticks are still available for outreach activities to elementary schools.

Unites States Geological Survey's Open House

The U.S. Geological Survey will showcase its scientific research at its Menlo Park Science Center on Saturday, May 31 and Sunday, June 1. The Menlo Park Science Center is located at 345 Middlefield Road in Menlo Park, California. The theme of the event is "Safety and Prosperity Through Science-Natural Hazards, Environment, Technology, and Our Bay Area Home." Take advantage of a special opportunity to:

- * Talk with scientists about their work
- * See exhibits and displays of USGS research
- * Learn about the physical environment of the San Francisco Bay region
- * Learn about earthquakes, volcanos, landslides, and other natural hazards
- * Learn about biological-resource monitoring
- * Explore real-time digital data on the Internet
- * Learn how maps are made
- * Learn about new initiatives to provide geographic data to the nation
- * Tour USGS laboratories
- * Learn to identify rocks, fossils, and minerals from the region
- * See live animals that scientists are investigating
- * Learn about resources for teachers
- * Investigate career opportunities
- * Buy USGS earth science books and maps

Hours of the Open House are 10 a.m. to 4 p.m.

There is no admission charge. Although nearby parking lots are expected to be adequate, local residents are encouraged to walk or bicycle to the event.

See <http://openhouse.wr.usgs.gov> for more details. Volunteers are needed!



Some Footnotes About Stanford

– The (Funny) Farm –

1. The full legal name of Stanford is The Leland Stanford Junior University. You all knew about a junior college. Now you know about the Junior University.
2. Leland Stanford was a farm kid from upstate New York. With the Southern Pacific Railroad, he and his associates had difficulty with employing the Eastern university, liberal arts-trained college graduates. They often didn't fit. This new university was to focus on practical training for university graduates to compete in the changing world. I wonder if Mr. and Mrs. Stanford would return now what they would think about their University.
3. The first President of Stanford, David Starr Jordan, was a professor of ichthyology (study of fish). He spent more than 50 years on the Stanford campus. One of his comments about being President was, "Every time I remember the name of a new student, I forget the name of a fish."
4. For the first 50 years, the Stanford presidents were practical scientists, engineers or physicians. When Herbert Hoover was President (1929-1933) he selected Ray Lyman Walker (Stanford President and a physician) to be his Secretary of the Interior. Stanford Chemistry Professor and Chair, Dr. Robert Eccles Swain, served as Acting President of Stanford for those four years.
5. The Main Quad buildings of brown sand stone were put up quickly for the opening in October 1891. The new buildings had no bathrooms - and some of those after-thought out-houses are still in use within the old Quad. This was not unusual for the time. When Biltmore, then the largest private dwelling in the US built for George Washington Vanderbilt, opened in December 1895 in Ashville, North Carolina, it had 250 rooms on a 125,000 acre estate. Over half of the bedrooms did not have a bath. (See

<http://www.biltmore.com/>)

6. After Senator Stanford's death in 1893, the U.S. Government placed a lien on the estate – freezing all estate funds. A local judge was convinced to rule that the University faculty and staff were part of Mrs. Stanford's personal household staff. Therefore, she could withdraw an allowance of \$10,000 a month from the estate to run the University. The government's lien was dismissed without merit about 1898 and the University flourished.
7. During the subsequent years, the San Francisco Bay Area was blessed by two wealthy widows who lav-

ished the family fortunes on their respective Universities - Mrs. Jane Lathop Stanford and Ms. Phoebe Apperson Hearst at U.C. Berkeley. Mrs. Hearst's only son was publishing magnate William Randolph Hearst who built San Simeon with the assistance of California's first woman architect, Julia Morgan.

Some Sources:

Stanford- Story of a University by Edith R. Mirrielees, Putnam Books New York, 1958. (She was at Stanford during the 1906 quake and was one of the few professors that John Steinbeck would see on his visits back to campus.)

Stanford University: From the Foothills to the Bay, Stanford Alumni Association, 1980.

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ACS Represented at NSF Bill Signing at White House

American Chemical Society Past President Edel Wasserman, Ph.D., was among those attending a White House ceremony December 19 where President Bush signed into law H.R. 4664, a bill that doubles the National Science Foundation budget by Fiscal Year 2007. ACS has been a strong supporter of the legislation since it was introduced in Congress.

The authorization measure has two purposes. It recommends the increase in funding, an amount that can be used as guidance when federal officials actually appropriate the money. In addition, the law sets policy directions for the agency.

Prior to the ceremony ACS President Eli M. Pearce, Ph.D., applauded the congressional action, "We commend Congress for taking the long view on research and technology talent and for maintaining support for distinct, but complementary K-12 Math and Science Partnership programs at NSF and the Department of Education," said Pearce. "The bill is a bi-partisan land-

mark that is a major victory for the scientific community and for the nation's long-term economic health. It will offer a major boost to NSF's basic research and education efforts."

The law strengthens and enhances NSF's education programs. The K-12 math and science partnership effort at the Foundation will provide increasingly more money until 2005 for merit-based grants to develop effective model programs and strategies designed to improve teacher training and curriculum development. The Technology Talent provisions provide grants to higher education institutions and consortiums to actively increase the number of graduates in the sciences, technology, engineering and the mathematics fields.

In addition, the Noyce Scholarships, which encourage STEM majors and professionals to become K-12 mathematics and science teachers, will gain significant increases in funding for FY 2003 and remain level through FY 2005. To view the entire bill, click on <http://thomas.loc.gov/>.

View from the Board

Stanley Pine, ACS Director – District VI

As your new District Director on the ACS Board, I want to make communication with the members a top priority. I do want to hear from you with your concerns and your support about activities of our professional society. I will use this periodic editorial, "View From the Board", to provide information to you through your local section newsletter as well as my web site (www.stanleypine.org). I will try to keep you informed and ask that you do the same for me.

Financial status – The ACS, like most organizations at this time, is experiencing insufficient income to support our membership programs. But our reserve funds, which were augmented during the previous "better years", are substantial. In 2002, the Board authorized some reliance on those reserves to support an anticipated deficit. As the final numbers are being compiled for 2002, it appears that the balance is well within expectations. However, the Committee on Budget and Finance (B & F) has initiated a Strategic Expense Management System that will examine programs and priorities to ensure fiscal stability in upcoming years. In addition to my Board responsibilities, I have been appointed to the B & F committee.

Regional Meetings – In recent years, the Board has directed additional resources to the support of regional meetings. This has included funds for special symposia as well as considerable logistic help for the hosting sections such as registration, on-line abstracts, and hotel site negotiations. This year the Northwestern Regional Meeting in Bozeman, Montana (June 12-14) and the Western Regional Meeting in Long Beach, California, (October 15-17) will be held within our District VI. Regional meetings are designed to supplement the national meetings for many of us, as well as to provide a local venue for those who may not normally attend the larger national meetings. Regional meetings provide technical symposia, social events, employment

contacts, and other activities within a small, congenial setting. I urge you to look at the schedules for an upcoming regional meeting in your area and to plan to attend.

Career Support – The current economic conditions have affected employment in the chemical sciences along with the rest of the employment market. For those of you interested in pursuing new or different career opportunities, I suggest that you look at the services provided by the ACS. At the national meeting you can participate in career workshops, mock interviews, and resume review sessions. NECH, the National Employment Clearing House, is a service at the national meeting that provides contacts between prospective employees and employers. You can register on line prior to March 27th for this service at the New Orleans meeting. Also, early this year ACS will begin "cen-chemjobs", a combination of our prior Jobspectrum.org and C&EN Classifieds. This will be a comprehensive site for all of your career needs.

Executive Director – As many of you know, John Crum, our current Executive Director, will resign at the end of 2003. The search for a new director has begun. A search firm will be retained to help with the process, though members of the Board will be involved in the total process from the initial screening committee (I'm part of that) to the final decision. This is a very important action by the Board because the Executive Director leads the staff of about 2,000 that helps to provide the many member services of the ACS.

Log on to www.chemistry.org for the broadest connection to ACS and its services.

Spring Technical Symposium

The Louisville Society for Coatings Technology and The CDIC Society for Coatings Technology is pleased to host The 2003 Spring Technical Symposium April 16, 2003 at The Galt House in Louisville, Kentucky.

For more information please contact:

Jimmy Cockerill

Cone Solvents, Inc.

502-448-9250

Prakash Pradhan

Color Corporation of America

502-722-5511



Benefit for You!

The American Chemical Society announces its newest benefit for you the member. We are excited that we can offer you discounts on your next stay at any of the following hotels; Ameri-Host, Days Inn, Knights Inn, Ramada Inn, Travelodge, Villager and Wingate Hotels. Take a minute and call 1-877-670-7088 to make your reservation, or call the hotel directly, mention the Society's discount No. 62871 and receive up to 20 percent off your next visit at any of the previously mentioned hotels.



National Chemistry Week Funding

Are you or your company interesting in funding National Chemistry week for the local section this year? If so, please contact Asfia Qureshi for more details on this exciting community outreach opportunity

Asfia Qureshi

asfiaq@yahoo.com

650-526-3031



CALL FOR NOMINATIONS: Ottenberg Service Award

It is again time to nominate candidates for the Abraham Ottenberg Service Award of the Santa Clara Valley Section.

This 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 devoted much of himself to 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. Nominees must be members or affiliates of the Santa Clara Valley Section.

Previous recipients are: Shirley B. Radding (1974), Oliver F. Senn (1975), Floyd M. Hobbs (1976), Frank R. Mayo (1977), Harry S. Mosher (1978), Lois J. Durham (1979), Richard W. Gaver (1980), Alan C. Ling (1982), Ludwig A. Mayer (1983),

John F. Riley (1983), Howard M. Peters (1984), June G. Jones (1986), Robert L. Montoya (1986), Malcolm Dole (1987), Donald E. Green (1991), Hubert E. Dubb (1992), Karl Marhenke (1993), Stephen N. Senzer (1994), Carol W. Mosher (1995), Bonnie Charpentier (1998), Linda Brunauer (1999), Herbert B. Silber (2000), Sally Peters (2001), and Jamil Talhouk (2002).

The nominating letter should include a brief biography of the candidate and a description or evaluation of the service(s) to be

recognized by the award. Seconding nominations are not required but will be accepted.

Nominations should be sent to:

Chairman
Ottenberg Award Committee
Santa Clara Valley Section, ACS
Post Office Box 395
Palo Alto, CA 94302

Nominations must be received by May 31, 2003 to be considered for the 2003 award.



Judges Needed 2003 ISEF

May 13 – 14, 2003

Chris Moravec, Judging Chair for 2003, is making a call for volunteers to judge in the Intel International Science and Engineering Fair (ISEF). ISEF brings 9-12th grade students from almost every state and 40 countries! This year, it will be held Cleveland, Ohio. Though the judging pool is particularly short in the areas of botany, gerontology, microbiology, environmental sciences and the earth/space science; all and any category judge is asked for.

For more information and application, please visit the ISEF website:
<http://www.sciserv.org/isef/judges/>

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You will design and synthesize new chemical entities for evaluation against key biological targets. Requires a PhD in Organic Chemistry and demonstrated expertise in synthetic organic chemistry. Experience in the pharmaceutical industry strongly preferred. Job Code: 0303RS-CMP

Research Associate – Medicinal Chemistry

You will prepare new compounds for testing potential drug candidates. This will include interpreting data to support a proposed molecular structure. Requires a BS/MS and 0-7 years of relevant experience, including synthesis, purification and analysis of organic molecules. Job Code: 0303RA-CMP

Research Associate/Scientist – Process Development

You will carry out process research activities at the bench scale and perform scale-up activities in large glassware and pilot plant equipment. Requires a BS/MS/PhD in Organic Chemistry, bench-scale lab skills and experience in synthetic organic chemistry and structural characterization. Job Code: 0303PD-CMP

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<http://paloalto.roche.com>

Final Call for Nominations The Harry and Carol Mosher Award

The award was established in 1980 by the Santa Clara Valley Section of the ACS to (1) recognize and encourage outstanding work in chemistry, (2) advance chemistry as a profession, and (3) recognize service to the ACS. The award is named for the late Professor Harry S. Mosher of Stanford University, Palo Alto, California and Dr. Carol W. Mosher of SRI International, Menlo Park, California, husband and wife, charter members and long-time supporters of this section.

The first scientists to receive this award were Doctors Harry and Carol Mosher in recognition of the inspiration of their example. The committee noted that the Moshers, including a brother, Dr. William A. Mosher, also a chemist and former Chairman of the Department of Chemistry at the University of Delaware, are outstanding examples of the qualities to be recognized and honored by this award.

Any scientist residing in the United States who is a member of the ACS is eligible to be nominated for the Mosher Award. Five copies of the nomination, including printed materials (reprints) should be furnished for distribution to the award Selection Committee. The nomination and its accompanying material must be sent to Award committee by May 31, 2003.

Chair, the Mosher Award Committee
Santa Clara Valley Section
American Chemical Society
Post Office Box 395
Palo Alto, California 94302

Final Call for Nominations Shirley B. Radding Award

The Santa Clara Valley Section of the American Chemical Society (ACS) announces the call for nominations for the 2003 Shirley B. Radding Award.

First awarded in 1994 to its namesake, the Shirley B. Radding Award annually honors someone who has been a member of the ACS for at least 20 years. Nominees must have demonstrated dedicated, unselfish leadership, service and significant contributions over a sustained period of time to industrial, applied or academic chemistry and to the American Chemical Society through elected or appointed positions at local, regional and national levels.

The award consists of an honorarium of \$1,000 and a suitably inscribed memento. Nominations should consist of at least one letter of nomination stating how the nominee's work relates to all aspects of the award. It is recommended that seconding letters accompany the nomination.

Nominations are due on or before May 1, 2003 and must be mailed to:

Radding Award Committee
Santa Clara Valley Section ACS
Post Office Box 395
Palo Alto, CA 94302

CHEMEMPLOYMENT ABSTRACTS - APRIL 2003

CHEMEMPLOYMENT ABSTRACT 3718

Position Title: Manager, Chemical Manufacturing-BF3-105

Job Description: responsible for tech transfer & support of chemistry & analysis for small molecule intermediates & API syntheses at contract manufacturers. Other responsibilities are management & implementation of process changes at contract manufacturers, supply chain management for clinical & commercial API production, negotiation & maintenance of supply agreements for raw materials & API, and writing and reviewing regulatory submissions.

QUALIFICATIONS DESIRED

Education: BS or MS scientific degree is required; an MBA is a plus

Experience: 6-15 yrs of exp in process research or tech transfer of chem syntheses in pharmaceutical industry. Exp should include work with cross-functional teams, such as Process Research, QC, QA, Regulatory Affairs, Legal, and Accounting. Exp using chem proc equipment & sourcing fine chemicals are definite pluses.

LOCATION, SALARY, MAIL ADDRESS

Location: Foster City, CA

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

Application Instructions:

Apply online today at www.gilead.com

CHEMEMPLOYMENT ABSTRACT 3719

Position Title: Research Associate/Sr. Research Associate, Pharmaceutical Development BF2-453

Job Description: Join our team conducting analyses and developing analytical methods that support the synthesis of drug candidates. Perform chemical analysis using HPLC, GC, spectroscopy, wet chemistry and other methods, while interacting closely with synthetic chemists working on process research.

QUALIFICATIONS DESIRED

Education: BS or MS chemistry or related field
Experience: 1-5 years of lab experience in analytical chemistry are required. General lab skills are necessary including good HPLC, GC and spectroscopy; experience using LC/MS is a plus; experience with GMP regulations helpful, but not required. You must have working knowledge of MS Word and Excel.

LOCATION, SALARY, MAIL ADDRESS

Location: Foster City, CA

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Happy Easter



EMPLOYMENT HELP IN OTHER AREAS OF CALIFORNIA

The following are names and addresses of contacts in other California Sections. You may write to them or call to find out how to receive their job listings or how to place a job listing with them. Do not send self-addressed envelopes unless requested to do so.

California Section

Mrs. Nancy Gephart
American Chemical Society
California Section
49 Quail Court
Walnut Creek, CA 94596
925-287-8055
e-mail: office@calacs.org

California Los Padres Section

Dr. Sandra Lamb
Chemistry Dept.
University of California,
Santa Barbara
Santa Barbara, CA 93106-9510
e-mail: lamb@chem.ucsb.edu

Mojave Desert Section

Dr. Peter Zarras
NAWCWD, Code 4T4220D
1 Administration Circle
China Lake, CA 93555
760-939-1396
e-mail: zarrasp@navair.navy.mil

Orange County Section

Geoff Anderson
Hycor Biomedical
78272 Chapman Avenue
Garden Grove, CA 92641
714-895-9558
Ron Denedour
23731 Coronel Drive
Mission Viejo, CA 92691-3306

Sacramento Section

John R. Bingham
809 W. Stadium Lane
Sacramento, CA 95209
916-927-7088
916-927-7006 FAX

San Diego Section

Renate Valois
619-260-4513
619-260-2211 FAX
e-mail: pascal@acusd.edu

Southern California Section

Send a self-addressed, 55 cent stamped business envelope to:
ACS job listing
14934 South Figueroa Street
Gardena, CA 90248
310-327-1216
e-mail: office@scalacs.org
www.scalacs.org/employ.html



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CHEMPLOYMENT ABSTRACTS



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<http://www.scvacs.org>

SANTA CLARA VALLEY SECTION

2003 Section Officers

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Secretary: Karl Marhenke	831-479-6263	karlmar@armory.com
Treasurer: Hong Gao	650-564-5197	hong.gao@alza.com
Past-Chair: Jon Touster	650-723-4340	touster@leland.stanford.edu

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2001-03: Linda Brunauer	408-554-6947	lbrunauer@scu.edu
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2002-04: Bonnie Charpentier	650-948-3931	charpentierbon@yahoo.com
2002-04: Herb Silber	408-924-4954	hbsilber@sjsuvm1.sjsu.edu
2003-05: Maureen Scharberg	408-924-4966	scharbg@pacbell.net
2003-05: John F. Riley	650-328-4036	jfriley@atdial.net
2003-05: Ean Warren	650-329-4554	ewarren@scvacs.org

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2003-05: Laura Jarvis	650-404-2950	lj Jarvis@scvacs.org
2003-05: Asfia Qureshi	650-526-3031	asfiaq@yahoo.com

Newsletter

Editor: **Laura Jarvis** 650-404-2950 editor@scvacs.org

ChemEmployment Abstracts

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

FUTURE MEETINGS

Apr 24	SCV Dinner Meeting Stanford Student Affiliates
May 4-6	ADMET in the 21st Century ACS ProSpectives St Petersburg, FL
May 22	SCV Dinner Meeting Dr. Carolyn Bertozzi
Jun 15-18	ACS Colloid and Surface Science Symposium Atlanta, GA
Jul (TBD)	SCV Wine Tasting and Awards Dinner
Sep 21-24	Combinatorial Chemistry ACS ProSpectives Leesburg, VA
Sep 25	SCV Dinner Meeting Dr. Ken Carter Material Science

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



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