

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 28 No. 3

April Dinner Meeting

How Does the Breast Remember It Is a Breast, and How It May Forget and Become Breast Cancer

Abstract

Given that all tissues share the same DNA sequences, the question of how tissue specificity is maintained and how it goes awry in cancer is a central problem in biology. In Dr. Bissell's lecture, entitled "How Does the Breast Remember It Is a Breast, and How It May Forget and Become Breast Cancer," she will provide an overview on how her laboratory at Lawrence Berkeley National Laboratory has



Dr. Bissell

developed "designer microenvironments" in three-dimensional (3D) cultures to study the role of the microenvironment and tissue architecture in normal and malignant cells. She will also discuss how these external factors shape signal transduction in tissues.

Dr. Bissell's laboratory is interested in the role of extracellular matrix (ECM), its receptors and its degrading enzymes as central modulators of

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April Dinner Meeting

Date: Thursday, April 20, 2006

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

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

Speaker: Dr. Mina Bissell
Distinguished Scientist
Lawrence Berkeley
National Laboratory
"How Does a Breast Remember It Is a Breast, And How It May Forget and Become Breast Cancer"

Cost: \$27.00 with the choice of Grilled Fillet of Salmon or Vegetarian Crepes. Includes wine with dinner

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

Reservations should be made by April 17th stating your name, address, company affiliation, number of people in party, and main buffet selection of chicken or vegetarian entrée.

If you are unable to honor your reservation and do not cancel by Wednesday the 8th, you will be invoiced following the dinner meeting.

March Dinner Meeting Reminder

On March 9, 2006 join Dr. Claire Pomeroy, MD to learn about CA Prop 71: The Stem Cell Initiative. Dr. Pomeroy will present information on Stem cell research, the emerging field of regenerative medicine, and the great hope it holds for new medical therapies.



Claire Pomeroy

includes a variety of dinner choices, including vegetarian selections.

Please make your reservations by Monday, March 5th, either online at www.scvacs.org or by contacting Shirley Radding (408-246-2564 or 408-296-8625 FAX). Reservations

We will convene at the Genentech Campus in Building 5, Conference Room 5Q, which is located at 1 DNA Way in South San Francisco, starting at 6:00 p.m. for registration and social hour and 7:00 p.m. for dinner. The \$25.00 dinner buffet

should state your name, address, company affiliation, and the number of people in your party. If you are unable to honor your reservation and do not call to cancel by Wednesday, March 8th, you will be invoiced following the dinner meeting.

April Meeting, continued from front page

tissue-specific gene expression, signal transduction, apoptosis and cancer. The laboratory uses the mammary gland of mice and humans to study the above processes in breast and breast cancer.

For more information about the research being conducted by Dr. Bissell's laboratory, please visit her web-site at http://www.lbl.gov/lifesciences/labs/bissell_lab.html.

Biography

Dr. Mina J. Bissell, Ph.D., is a world renowned leader in the area of the role of extracellular matrix (ECM) and microenvironment in regulation of tissue-specific function with special emphasis in breast cancer where she has changed some established paradigms. She earned an A.B. with honors in chemistry from Harvard/Radcliffe College and a Ph.D. in bacterial genetics from Harvard University in 1969. She was a Milton Fellow at Harvard and an American Cancer Society Fellow in the Department of Molecular Biology at U.C. Berkeley. She joined the Lawrence Berkeley National Laboratory in 1972. Dr. Bissell became a Senior Scientist in 1977, the Director of Cell & Molecular Biology in 1988 and was appointed Director of all of Life Sciences in 1992.

Dr. Bissell has authored more than 250 publications and sits on editorial board of many scientific journals, most recently Science magazine. She also sits on a number of National and International scientific and government boards. She has received numerous awards and citations and has given more than 70 'named' lectures. She was a Fogarty Fellow in 1984, a Guggenheim fellow in 1992 and was elected an AAAS fellow in 1994. She received the 1996 Ernest Orlando Lawrence Award and medal, the highest honor of the US Department of Energy. In 1997, she was elected to the Institute of Medicine of the National Academy of Sciences and served as President of the American Society for Cell Biology. In 1998, she received the Mellon Award from the University of Pittsburgh and was the 1999 recipient of the Eli Lilly/Clowes

Award of the American Association for Cancer Research.

In 2001, Dr. Bissell received both an honorary doctorate from the Pierre & Marie Curie University in Paris, and the first "Innovator Award" of the US Army breast cancer program. In 2002, she was elected to the American Academy of Arts and Sciences and was the President of the International Society of Differentiation. Upon stepping down as the Life Science's Division Director, she was named Distinguished Scientist (one of seven, the only woman, and the only life

scientist to achieve this status) and Senior Advisor to the Laboratory Director on Biology. In 2003, she received the Brinker Award from the Susan G. Komen Breast Cancer Foundation. In 2004, Dr. Bissell, was among the 13 recipients of the first Discovery Health Channel Medical Honor and received another honorary doctorate from the University of Copenhagen. In 2005, she became the first OBER/DOE Distinguished Scientist Fellow in Life Sciences and received a \$1.25 million award for 5 years.



Electronic Newsletter is Coming

The Executive Committee has adopted a goal of transferring the newsletter to electronic distribution in the next few months. Before making the transition you need to help.

Please be sure you have registered your e-mail address by going to www.scvacs.org/newsletter/index.html service. There is a link to add your e-mail address to the Yahoo! list server that notifies our members when a new newsletter is placed on our web site. Many members have already done this and you may have already been receiving notification of newsletter releases. If so, you're ready and don't need to do anything more.

If you do not have an e-mail address to register you may still receive a printed newsletter through the US Postal Service. Frankly, we can save money by reducing the number of copies mailed, but printed copies will still be available. To be on the mailing list you must let us know that is your preference; you must opt-in. Please do so by sending us a postcard or letter to: SCV ACS, P. O. Box 395, Palo Alto, CA 94302-0395.

That's all it takes. Oh, by the way, if you do nothing (do not have a registered e-mail address and do not opt-in by mail) you will receive neither an e-mail notification of a newsletter release nor a printed copy.

Chair's Message

In my February message, I reviewed three goals for our local section in 2006

- Transition from hard copy to electronic distribution of the Silicon Valley Chemist newsletter.
- Have Stanford and UCSF designated Historic Chemical Landmarks.
- Co-Host the San Francisco National Meeting of the ACS with the California Section.

At our February Executive Committee meeting, we added a fourth goal

- Move from paper to electronic balloting for local section elections.

The rationale for the fourth goal is similar to that for the first goal: to reduce costs. The cost and timing to prepare, send, and tabulate return paper ballots can be reduced by electronic voting. Many professional societies already vote electronically. If you have experienced electronic voting in another professional group, please let me or another officer or Councilor know what you liked or disliked about the process. If you have had experience in making this transition in another organization, we would welcome your insights and assistance. An added benefit we hope to see from electronic voting is an increased number of voters. The current voter turnout is very low. The amount of effort to vote on line when you are already there reading the latest Silicon Valley Chemist and registering for the upcoming monthly dinner meeting should be minimal. We realize some members may not have ready web access to read the newsletter or vote electronically.

We want to further differentiate between those who do not have web access and those who are not interested in reading the Silicon Valley Chemist. If you do not have web access, send us a letter saying you want to continue receiving the newsletter in hard copy after August. The letter should be sent to: Santa Clara Valley Section, American Chemical Society, P.O. Box 395, Palo Alto, CA 94302. If we do not receive a

letter requesting continued hard copy delivery, we will assume you will access the newsletter on line or that you no longer wish to receive it. To receive a monthly email containing a link to the just published newsletter, subscribe to our yahoo group by sending an email to SCVACS-newsletters-subscribe@yahoogroups.com.

Speaking of goals-have you made it one of yours to attend our local section monthly meetings? They are interesting, informative, varied in topic, and a bargain. The presentations are free – presentations start at 8 p.m. The social hour and dinner are not free, but the food is good and the attendees' are friendly. Social hour starts at 6 p.m. and dinner is followed at 7 p.m. This newsletter gives you the details of the current and following months' programs. In January, the Mosher Award Winner, Dr. Michael Doyle related to us his huge success in interesting undergraduate students in a career in chemistry by having them do research in his laboratory. He went on to tell us the troubling news that as funding for undergraduate research has declined, so has the number of students choosing chemistry as a career. This downward trend

of new chemists in the United States coincides with other nations' increased spending on science and engineering education and their concomitant increased capacity to perform manufacturing, research, and development previously done in this country. As this newsletter goes to press, Ted Smith (founder of the Silicon Valley Toxics Coalition) is about to tell us about his hopes and efforts for environmental sustainability for the high tech industry in Silicon Valley.

In March Dr. Claire Pomeroy will talk to us about stem cell research and the status of California's \$3 billion Proposition passed in 2004. We will co-host her presentation at Genentech with the California local section and the American Association for Clinical Chemists. April will bring us Dr. Mina Bissell from Lawrence Berkeley National Laboratory whose talk is entitled, "How Does the Breast Remember It Is a Breast, and How It May Forget and Become Breast Cancer." Dr. Bissell has done pioneering research in how extracellular material can impact the development of breast cancer.

I look forward to seeing you at these presentations.

Dave Parker



Earth Day

April 22

SIGN UP FOR EMAIL ALERTS!

After August of this year, the newsletter will no longer be sent to all members. It will be published primarily on our website, www.scvacs.org. In order to be notified of new newsletters, subscribe to our Yahoo group by sending an email to SCVACS-newsletters-subscribe@yahoogroups.com. Every month, you will receive a short email when the newsletter is posted to the SCVACS website. This email group will be ONLY used for this purpose. You can unsubscribe at any time.

SCV-ACS Member Survey 2005

SYNOPSIS

Our membership survey has been completed and the results are available on the SCV-ACS website:

<http://www.scvacs.org/survey/Survey.html>

The Executive Committee thanks all of the 31 respondents who took the time to answer questions and give their views. The Survey Committee is studying the data and will advise the Section on what is considered important to you – the members – and how to implement your suggestions.

While a third of the respondents attend meetings often, the majority do not come regularly or at all for a variety of reasons: too busy, inconvenient time, too far away, or topic is not interesting to them. The most important reason to attend a dinner meeting is the speaker's topic and most felt OK with dinner meeting costs at around \$25 or less. Meeting location and time of day are significant considerations while the weekday played a moderate role for most.

Most respondents would like to hear speakers talk about a great variety of topics with chemistry in daily life, local science issues and health ranking high on the list. Generally, they would prefer to come to a dinner meeting with a technical talk on chemistry, but many would and do attend meetings that involve medicine, biotech, space, environment, plant/museum tours, and social events, such as wine tasting.

Committee participation ranked high for several respondents. The committees were Science Faire Judging, National Chemistry Week, Women Chemists and Public Outreach., such as working with high school and college students. For those who gave us your contact information, expect a call from the committee chairs.

ACS encourages members to participate in "Topical Groups" and ACS Divisions. Respondents listed Biotech/Pharmaceuticals as the most preferred with Retired Chemists, Analytical, and Environment/Health/

Safety following in that order. As you might expect, there was interest in all of the Topical Groups listed in the survey and several others were suggested: Nanotechnology, Surface & Colloid Chemistry and Semiconductor Technology. Any interest?? Contact one of the Section officers listed in the newsletter.

Chemistry is not the only area of science that interests our members. These other disciplines include chemical engineering, industrial hygiene, nuclear science, physics, nanotechnology, law, semiconductor, chemical heritage, vacuum technology, rheology, electrochemistry, teaching chemistry and other sciences, library science and others. Some members are interested in Minority Affairs and belong to related organizations, such as the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE).

About half of the respondents had sought a job in the last five years. For about half of them, it took over 20 months to find a job. It took less than ten months for the other half. The Section's ChemPloyment Abstracts were used by over 35% of the respondents, who ranked the Abstracts Good to Excellent. Abstracts were rated Poor by less than 5% of the respondents.



There were many suggestions presented by the respondents. As stated earlier, the Survey Committee is reviewing all of these and other input from the survey with the goal of improving and enhancing program offerings to our members.

Here are some statistics about our Section (as of 12-31-04):

Total membership: 3,338

Sex:

Male	2,353
Female	804
N/A *	357

Age Group:

21-30	295
31-40	779
41-50	769
51-60	526
61-65	153
66+	369
N/A *	450

Years of ACS Service:

1-5	1,463
6-10	601
11-20	400
21-30	349
31-40	191
41-50	130
50+	140
N/A *	64

Field of Interest (Top five):

Medicine/Pharm.	472
Organic	437
Biotechnology	328
Analytical	276
Biochemistry	166

Job Activity (Top four):

Applied Research	424
Basic Research	377
R&D-Product	289
Management	194
Consultant/Advisor	132

Nature of Business (Top four):

Manufacturer	1,297
4-Year University/College	515
Independent Lab	356
Independent Consultant	199

Job Title (Top five):

Chemist/Metallurgist	661
Research Manager	407
Professor/Instructor	261
Dev./Tech./R&D Mgr.	228
Company Officer/Manager	193

* Information not available

Prepared by: George Lechner
Chair-elect 2005
February 13, 2006

CHEMEMPLOYMENT ABSTRACTS MARCH 2006

CHEMEMPLOYMENT ABSTRACT 3841

Position Title: Sr Chemist - Analytical Development
Job Description: Hands on laboratory work to develop and optimize analytical methods for testing of drug eluting stents. Conduct validations appropriate to the stage of the project to support early R&D efforts. Work with Analytical QC in preparing methods for transfer and subsequent validation. Hands on laboratory work to develop analytical methods to identify drug degradation

QUALIFICATIONS DESIRED

Education: Master's Degree in Chemistry
Experience: Minimum 3 yrs exp in pharmaceutical development or drug delivery, or equivalent combination of education and experience. Familiar with ICH Guidelines, USP and GLP. Experience with HPLC. Advanced computer skills specifically in Microsoft Word, Excel and Adobe Acrobat. Design Control/Review a plus.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Menlo Park, CA
Employer Description: Conor Medsystems, Inc., founded in 1999, is a developer of innovative controlled vascular drug delivery technologies. Conor has initially focused on the development of drug-eluting stents to treat coronary artery disease. Application Instructions: To learn more about Conor Medsystems, please visit www.conormed.com. Interested applicants should send their resume to careers@conormed.com and identify the above job title.

CHEMEMPLOYMENT ABSTRACT 3842

Position Title: Scientist, Analytical Development
Job Description: Develop and optimize analytical methods for testing of drug eluting stents (hands-on laboratory work). Design early drug stability studies, and develop analytical methods to track, identify and reduce drug degradation products formed during processing and product shelf life. Write method development histories and document continuous improvement of analytical methods.

QUALIFICATIONS DESIRED

Education: PhD in Chemistry
Experience: Minimum 4 yrs exp in pharmaceutical development or drug delivery, or equivalent combination of education and experience. Familiar with ICH Guidelines, USP and GLP. Experience with HPLC. Advanced computer skills, excellent written and verbal communication/presentation skills. Experience with DOE and Design Control/Review a plus.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Menlo Park, CA
Employer Description: Conor Medsystems, Inc., founded in 1999, is a developer of innovative controlled vascular drug delivery technologies. Conor has initially focused on the development of drug-eluting stents to treat coronary artery disease. Application Instructions: To learn more about Conor Medsystems, please visit www.conormed.com. Interested applicants should submit their resume to careers@conormed.com and reference the above job title.

CHEMEMPLOYMENT ABSTRACT 3843

Position Title: Staff Scientist - Job Code PPDH-10SVC
Job Description: Symyx needs a motivated Scientist to join the Physical Polymer Science group. This group is involved in combinatorial research programs with industry leaders to identify new polymeric materials for a wide range of applications. The scientists in the group develop physically oriented analytical techniques to support these programs, implement them in a high throughput mode and use the results to guide future developments.

QUALIFICATION DESIRED

Education: Ph.D. in Chem Engr, Phys Chem, Physics, Polymer Sci, Matl Science
Experience: Postdoctoral or industrial experience is preferred. Demonstrated ability to work successfully with novel instruments and methods. Ability to design, construct and evaluate novel instruments is a plus. Experience with formulation of multi component polymer systems in emulsions, with concentrated solutions or melts preferred.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Santa Clara, CA
Salary: Competitive compensation & excellent benefits
Employer Description: Symyx Technologies develops & applies high-throughput res & software technologies to increase R&D productivity for customers in the chemical, energy, pharmaceutical, electronic & other industries.

Application Instructions: Send resume as a Word document to: hrstaffing@symyx.com. Please put job code PPDH-10SVC in the Subject line.

CHEMEMPLOYMENT ABSTRACT 3844

Position Title: Staff Scientist - Job Code PPDH-12SVC
Job Description: Symyx needs a motivated Scientist to join the Polymer Synthesis group. This group is involved in high-throughput research toward the discovery of novel polymeric materials for a variety of applications. This work involves the use of proprietary instrumentation and software for designing and synthesizing arrays of polymers, as well as working with the other members of a multidisciplinary team to modify equipment and design new equipment for high-throughput polymer synthesis.

QUAIFICATIONS DESIRED

Education: Ph.D. in polymer synthesis or a related discipline
Experience: Postdoct or ind exp. is desired but not required. Exp in radical polymerizations, suspension polymerizations, condensation polymerizations and/or biopolymers is preferred. Familiarity with sample preparation & polymer characterizations a plus. Strong verbal & written

LOCATION, SALARY, MAIL ADDRESS

Job Location: Santa Clara, CA
Salary: Competitive compensation & excellent benefits
Employer Description: Symyx Technologies develops & applies high-throughput research & software technologies to increase R&D productivity for customers in the chemical, energy, pharmaceutical, electronic & other industries.

Application Instructions: Send resume as a Word document to: hrstaffing@symyx.com. Please put job code PPDH-12SVC in the Subject line.

CHEMEMPLOYMENT ABSTRACT 3845

Position Title: Staff Scientist - Job Code PPDH-11SVC
Job Description: Symyx needs a motivated Scientist to join the Polymer Synthesis group. This group is involved in high-throughput research toward the discovery of novel polymeric materials for a variety of applications. This work involves the use of proprietary instrumentation & software for designing & synthesizing arrays of polymers, as well as working with the other members of a multidisciplinary team to modify equipment and design new equipment for high-throughput polymer synthesis.

QUALIFICATIONS DESIRED

Education: Ph.D. in polymer synthesis, or a related discipline
Experience: Postdoc or ind exp is desired but not required. Exp in radical polymerizations, suspension polymerizations, condensation polymerizations and/or biopolymers is preferred. Familiarity with sample preparation & polymer characterizations a plus.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Santa Clara, CA
Salary: Competitive compensation & excellent benefits
Employer Description: Symyx Technologies develops & applies high-throughput research and software technologies to increase R&D productivity for customers in the chemical, energy, pharmaceutical, electronic & other industries.

Application Instructions: Send resume as a Word document to: hrstaffing@symyx.com. Please put job code PPDH-12SVC in the Subject line.

CHEMEMPLOYMENT ABSTRACT 3846

Position Title: Staff Scientist - Discovery Tools
Job Description: This is a hands-on position with the Discovery Tools group that will develop, implement and support high throughput experimental systems for pharmaceutical, chemical & polymer industries. Responsibilities include: lead projects that develop, test & implement Discovery Tools products. Adapt traditional customer research programs to high throughput methodologies and provide customer support. Assist the Symyx sales team in identifying & reaching potential customers.

QUALIFICATIONS DESIRED

Experience: advancing projects and working with a technical team. Ability to interact with customers at multiple levels. Able to travel 20-30% of the time.

LOCATION, SALARY, MAIL ADDRESS

Education: B.S. or M.S. in chem, chem engrg or matl sci. A PhD a plus.
Salary: Competitive compensation & excellent benefits
Employer Description: Symyx Technologies develops and applies high throughput research & software technologies to increase R&D productivity for customers in the chemical, pharmaceutical, electronic & other industries.

Application Instructions: Send resume as a Word document to: hrstaffing@symyx.com. Please put job code DTTR-1SCV in the Subject line.

CHEMEMPLOYMENT ABSTRACT 3847

Position Title: Senior Analytical Chemist - Materials Development #06-4525
Job Description: Responsibility for the identification & conduct of analytical methods supporting new product development projects. Will develop in-house analytical capabilities & identify & manage the outsourcing of analytical testing.

QUALIFICATIONS DESIRED

Education: Ph.D. in analytical chemistry, chemistry, or a related physical science
Experience: A minimum of 2-4 yrs in industry. Hands-on familiarity with techniques including chromatography (e.g. SEC, ion-exchange, RP-including hyphenated techniques), ESCA, FT-IR (including ATR-IR), optical and electron microscopy, & particle characterization is a must.
 Good verbal & written skills.

LOCATION, SALARY AND MAIL ADDRESS

Job location: Foster City, CA
Salary: Competitive salary & excellent benefits package.
Employer Description: Applied Biosystems is a technology leader & driving force in the changing dynamics of the life science marketplace. Please see www.appliedbiosystems.com. We are proud to be an EOE.

Application Instructions: Send email to Robin.Hong@appliedbiosystems.com with Sr. Analytical Chemist - Materials Development #06-4525 in the subject line and a Word document attached.

CHEMEMPLOYMENT ABSTRACT 3848

Position Title: Associate Scientist - Drug Metabolism
Job Description: Develop & apply efficient LC/MS/MS based assays for the quantification of small org. compds. From biological matrices. Maintain and troubleshoot LC/MS & LC/MS/MS instruments.

QUALIFICATIONS DESIRED

Education: BS/MS in pharmaceutical sciences, Analytical Chemistry or Pharmacology.
Experience: Strong background in bio-analytical chemistry for small organic compounds. Extensive exp. In chromatographic separations. Experience in problem solving in a drug discovery setting. Knowledge in pharmacokinetics, drug metabolism & organic chemistry. Good oral and written communication skills & computer skills.

LOCATION, SALARY, MAIL ADDRESS

Location: Foster City
Salary: Depends on experience
Employer Description: Gilead Sciences as a biopharmaceutical company that discovers, develops & commercializes innovative therapeutics in areas of unmet medical need.

Application Instructions: Please apply online at our website www.gilead.com/careers, referencing position number BF 6-595.

CHEMEMPLOYMENT ABSTRACT 3849

Position Title: process Engineer, Recovery
Job Description: The Process Science Group is looking for a dynamic engineer in protein recovery and purification. This individual will be a part of a team responsible for the hands-on development of biological production processes across all stages of process development - from discovery, scale-up to pilot production, and technology transfer to Genencor's manufacturing plants.

QUALIFICATIONS DESIRED

Education: BS/MS in biochemical or chemical engineering
Experience: Strong written and verbal communication skills. 0-3 years bioprocessing industrial exp., with hands-on emphasis. Strong team player. Self-starter with good organizational skills.

LOCATION, SALARY, MAIL ADDRESS

Job Location: Palo Alto
Employer Description: Genencor s a diversified biotechnology company which discovers, develops and sells biocatalysts & other bio-products for the industrial, consumer & other bio-products for the industrial, consumer & agriprocessing markets. For more information go to www.genencor.com.

Application Instructions: To apply: Please send resumes to scvacs@genencorcareers.com and reference job number 121-PA-06. Genencor is an equal opportunity employer.



Happy St. Patrick's Day



SANTA CLARA VALLEY SECTION
AMERICAN CHEMICAL SOCIETY
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SANTA CLARA VALLEY SECTION

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Newsletter

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ChemPloyment Abstracts

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FUTURE MEETINGS

Mar 26-30	231th National ACS Meeting Atlanta, GA
Apr 9-12	BIO 2006 Chicago, IL
Apr 20	SCV Dinner Meeting Santa Clara, CA
Apr 22	Regional Chemistry Olympiad Livermore, CA
May 10	Intel International Science and Engineering Fair Indianapolis, IN
May 10-12	Ninth World Congress on Biosensors Toronto, Canada
May 18	SCV Dinner Meeting Location TBD
May 21-24	2006 Biennial Polymer Conference Key Biscayne, FL

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