

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

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AUGUST 2013 NEWSLETTER TOPICS

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September Dinner Meeting Gene Patenting

Jacob S. Sherkow, J. D.

**Abstract:**

Jacob Sherkow will discuss the Supreme Court's recent gene patenting decision in *Association for Molecular Pathology v. Myriad Genetics, Inc.* Jake will provide an overview of the history behind the relevant legal doctrine--patent eligibility--discuss how the Court's decision fits in that history, and provide some insight into how the decision will affect the pharmaceutical and biotechnology industries.

Biography:

Jacob S. Sherkow is a Fellow at Stanford Law School's Center for Law and the Biosciences (CLB). His current research focuses on the intersection of patent law, biotechnology, and agency regulation, for which he has been interviewed or quoted in a number of national media outlets. He is the author of several works of legal scholarship in law journals at BYU, Iowa, Michigan, and Yale, as well popular pieces

in publications such as the New York and Los Angeles Times. Jake is also the author of several scientific publications. Prior to joining CLB, Jake was a patent litigation associate at Gibson, Dunn & Crutcher in New York, a law clerk at the U.S. District Court for the Eastern District of New York, and an intern at the U.S. District Court for the District of Columbia.

September Dinner Meeting

Date: Thursday, September 19, 2013

Time: 6:00 p.m. Social Hour
7:00 p.m. Dinner
8:00 p.m. Presentation

Presentation: Jacob S. Sherkow, J. D.
Gene Patenting

Location: Basque Cultural Center
599 Railroad Ave.
South San Francisco, CA 94080

www.sfbcc.us/content2.asp?id=13

Cost: \$28.00, Roast NY Strip or Salmon with Champagne Sauce or Vegetarian Pasta

Reservations: www.scvacs.org
Sally Peters, 650-854-4614

Reservations should be made by Monday, September 16th, stating your name, address, company/school affiliation, number of people in your party. Watch the web site for more information. If you are unable to honor your reservation and do not cancel by Wednesday, September 18th, you will be invoiced following the dinner meeting.

Chair's Message

July is the month during which we traditionally present awards to honor those who have achievements in chemistry or service to the ACS. This is done at the awards presentation program following the wine tasting and barbeque picnic. This year's picnic was Saturday, July 13th, starting with the wine tasting in the Keck Chemistry Building on the Stanford campus. This year's winery was Savannah-Chanelle located just a few miles outside Saratoga, CA.

Our web site has a complete list of Santa Clara Valley section awards. It's an impressive



list. Not all are honored at the picnic but many are. Recipients of the Shirley B. Radding Award (Mamie W. Moy) and the Ottenberg Award presented to our past-Chair, Natalie McClure, were present to receive their awards. The recipient of the Harry and Carol Mosher Award is Peter Wipf of the University of

Pittsburgh. That award presentation is customarily in January at the dinner meeting.

This year, our own Sally Peters was honored as one of the ACS 2013 Outreach Volunteers of the Year.

continued on next page

One of the favorite items on the agenda was the awarding of Membership Recognition Certificates to those who have 50, 60, 65 and 70 years of ACS membership. This year was no exception as we had several recipients share their career stories.



MALTA VI Conference to be Held In Malta in November 2013

By Howard Peters

The Malta Conferences Foundation (MCF) is a non-profit organization created to raise funds for the support of the biennial Malta Conferences, "Frontiers of Chemical Science: Research and Education in the Middle East". These were established with the aim of using science as diplomacy toward establishing a bridge to peace, tolerance, and understanding among the nations of the Middle East. In December 2011, Malta V was held at UNESCO headquarters in Paris, France, as one of the culminating events of the UN-designated International Year of Chemistry (IYC).

The Malta Conferences began in November 2003 to bring together eminent scientists and science educators from nations of the Middle East, many of which cannot otherwise meet face-to-face because their governments are hostile to each other, in order to exchange information and discuss collaboration and cooperation. In all cases, the Conferences are characterized by plenary lectures by several Nobel Laureates. For more background information, see The Silicon Valley Chemist, August 2013, p. 8 at <http://www.scvacs.org/newsletter/news1108.pdf>

Of the MCF officers, Dr. Howard Peters of Menlo Park was the MCF Founding Secretary, but stepped down in April. He remains on the MCF Board of Directors in a fundraising capacity.

The IRS granted status Section 501(c)(3) tax-exempt organization and retroactive to June 1, 2011. MCF is dedicated to obtain funding to support Malta VI and future Conferences from private and governmental agencies, foundations, scientific societies, and individual and corporate contributors. More information about the MCF citation is in the February 2013 U.S. Congressional Record, and about making individual tax-deductible contributions, is on the MCF website at www.maltaconferencesfoundation.org/.

Mamie W. Moy Receives 2013 Shirley B. Radding Award

Mamie W. Moy received her B. A. in chemistry from The University of Texas at Austin and her M. A. in chemistry from the University of Houston. She has held many positions at the University of Houston and is currently a professor in the department of chemistry.

For many years, Mamie has been and continues to be active in numerous committees of the ACS with aims to promote and support science education for women and women of color, in particular, chemical education, diversity in the professional work force, public outreach, and recognition of the achievements of women chemists.

She has been a Councilor for several decades, and has served on numerous national committees, including Membership Affairs, Nominations and Elections, Committee on Committees, Minority Affairs, and the Council Policy Committee. In the Greater Houston Section, she has served in every capacity including Chair. Mamie chaired several committees of the 42nd and 52nd ACS Southwest Regional Meeting (SWRM) in Houston and in 2006, she co-chaired the 62nd ACS SWRM in Houston.

In addition to her academic work at the college level, she plays an integral role in helping K-12 students cultivate their interest in science. She is the Director and founder of the Science and Mathematics Applied Resources for Teachers (SMART) Center to train pre-college math and science teachers. She is also a director of the Associated Chemistry Teachers of Texas (ACT2), the statewide organization for high school chemistry teachers.

Mamie reaches hundreds of thousands of students and their teachers through workshops for programs in the Houston community. She served on the Science Advisory Committee at the Children's Museum of Houston, the Welch Hall of Chemistry, and the Houston Museum of Natural Science. She mentors local high school girls through a program sponsored by Texas Executive Women, and stays active in other national programs that encourage young women to pursue STEM careers.

The ACS has recognized her dedicated efforts with the Camille and Henry Dreyfus Award for Encouraging Women into Careers in the Chemical Sciences 2011. She became an ACS Fellow 2010 and she won the Helen Free Award for Public Outreach 2004.

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 ACS through elected or appointed positions at local, district and national levels.

Award Criteria

- Member of the American Chemical Society for more than twenty (20) years.
- Demonstrated dedicated and unselfish service to ACS and its members over a sustained period of time.
- Provided leadership through elected and appointed ACS positions at local, district and national levels.
- Made significant contributions to industrial, applied or academic chemistry.

Previous Award Recipients

1994 Shirley B. Radding (deceased)	1995 Agnes Ann Green (deceased)
1996 John F. "Jack" Riley (deceased)	1997 Howard M. Peters
1998 Alan C. Nixon (deceased)	1999 Valerie J. Kuck
2000 Halley A. Merrell	2001 Norman A. LeBel (deceased)
2002 Paul H. L. Walter	2003 Jean'ne M. Shreeve
2004 Maureen G. Chan	2005 Glenn Fuller (deceased)
2006 Janan M. Hayes	2007 Merle I. Eiss
2008 Dorothy J. Phillips	2009 Bryan Balazs
2010 Herbert B. Silber	2011 Carol A. Duane
2012 Bonnie Charpentier	

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

Stephen Ting Went To Russia!



Stephen Ting
Went To Russia!

Stephen, the SCV representative to the study camp for the U.S. National Chemistry Olympiad, was chosen to represent the U.S. at the 245th International Chemistry Olympiad in Moscow, Russia in July.

During the camp, Stephen and 19 other exceptional high school students received advanced level training from the faculty of the U.S. Air Force Academy and the ACS mentors, through a series of bio-chemistry, analytical, organic, inorganic and

physical chemistry lectures, problem-solving exercises, intense hours of lab work, quizzes and testing.

At the conclusion of the study camp the members of the final four, 'traveling team' were announced. Stephen was joined by Runpeng Liu (St. Louis, MO), David Liang (Carmel, IN) and Saaket Agrawal (Sacramento, CA).

Stephen just completed his senior year at Monta Vista High school in Cupertino. His AP teacher, Ms. Kavita Gupta, mentored him the past two years. Because he chose to attend the study camp in Colorado, he had to forgo his high school graduation. That is dedication!

The idea of the International Chemistry Olympiad was developed in the former

Czechoslovakia in 1968. It was designed with the aim to increase the number of international contacts and the exchange of information between nations. Invitations were sent by the Czechoslovak national committee to all socialist countries, except Romania. The first International Chemistry Olympiad took place in Prague, June 18-21, 1968. Each of the three participating countries sent a team of six pupils, and four theoretical tasks were to be solved.

The 45th IChO was held at the University of Moscow, the largest and oldest university in Russia, July 15-24th. Approximately 78 nations sent teams of four students to participate in the two-week event. The students and their guides stayed at the Planerhoe Hotel. Sandwiched between exams were ceremonies, tours of Moscow, the Kremlin, and a 'Paintball adventure'!

We will try to arrange a report from Stephen after this international adventure and his matriculation at Stanford this fall!

Welcome to the Santa Clara Valley Section of ACS

Each month the section receives a spreadsheet from national ACS with the names of members new to our section. The members are either new to ACS, have transferred in from other areas, or are the newest members – students. To welcome you to the section and get to know you, the Executive Committee offers new members a free dinner! To encourage you to attend a monthly section dinner meeting, we would like you to be our guest. When you register, make certain to mention that you are a new member and you and a spouse (or friend) will be our guests.

The dinner meetings are often the 3rd Thursday of the month at a local spot, somewhat convenient to the entire section. If you are unable to attend in the evening, perhaps you would join us for an outreach event, like judging a science fair, participating in the Chemistry Olympiad, or a National Chemistry Week event in October. Then, there is our annual wine tasting and awards picnic in July. The local section is a volunteer organization. Please attend an event, volunteer to help, and get to know your local fellow chemists. Welcome!

New Members List for June

Dr. Lynette Cegelski	Sudharani Kondapally	Craig E. Stivala
Dr. Shreya Chand	Sebastian James Rice Lee	Dr. Rajesh Tiwari
Joseph W. Dilger	Michael H. Lopez	Stacy Tremintin
Dr. John William Efcavitch	Jennifer Parsons	Shou Nan Ueng
Kristin Fitzpatrick	Dylan B. Paulsen	Mark Sean Webster
Nadezda Fomina	Dr. Richard C. Quinn	Dr. Ardavan Zandiatashbar
Laura Hughes	Dr. Ralph Snodgrass	Hai Zhang
Dr. Gavin O. Jones	Shannon Stacy	

New Members List for July

Rishi Agarwal	Ivan Ivanov	Dr. J G. Moffatt
Belem Avila	Dr. Robert T. Jacobs	Anton R. Molina
Caitlin Binder	Alan Kulawik	Dr. Alpana Naresh
Kim Dolmatch	Mario Lanza	Sang Ngo
Dr. Franco J. Duarte	Dr. Howard Lee	Emily Linh Nguyen
Aaron R. Goerke	Kyoungjin Lee	Dr. Gabriel Jacob Rocklin
Daniel Gossett	Jun Li	Gabriela Schlau-Cohen
Ariel Hecht	Megan Lydon	Enrico Westenberg
Dr. Young-Rae Hong	Dr. Jianguo Mei	Leon Zhou

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ACS Salute to Excellence for Chemistry Olympiad Service

**Dr. Linda Brunauer and
Santa Clara University, Department of Chemistry and Biochemistry**

By Howard and Sally Peters



On Friday, June 7th, an ACS Salutes to Excellence plaque was presented to Dr. Linda Brunauer and the Santa Clara University Department of Chemistry and Biochemistry. Dr. Brunauer and the Department have been long-term generous hosts for the annual U.S. National Chemistry Olympiad competition. She organizes the facilities for the exams, does the laboratory preparation for 35 students, and encourages her college students to interact with the high school students. The day involves 17 outstanding Santa Clara Valley high school students and 18 similarly qualified students

from the California Local Section.

For well over ten years, the Santa Clara Valley Local Section has hosted the U.S. National Chemistry Olympiad local high school competition with the help of Dr. Brunauer and her department. This SCV volunteer support over the years has been amazing and the local results have been remarkable. It doesn't happen without the involvement of many local volunteer ACS chemists. Sally Peters and Stephanie Bachmann were the lead contacts for this annual Olympiad competition.

Recent articles about the Chemistry Olympiad –

<http://www.scvacs.org/newsletter/news1306.pdf>; p. 1 Stephen Ting

<http://www.scvacs.org/newsletter/news1206.pdf>; p. 2-3 Stephen Ting

<http://cen.acs.org/articles/91/i22/Students-Attend-US-National-Chemistry.html>;
C&ENEWS 6/9/13, p.40

The national ACS Salute to Excellence program has been around for years.

For more information, see:

<http://www.acs.org/content/acs/en/funding-and-awards/awards/other/salutes.html>

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2013 Local Section Outreach Volunteer of the Year Santa Clara Valley Section, Sally Peters

Sally has made outstanding contributions to public outreach on behalf of ACS. She has traveled extensively speaking on the chemistry of chocolate, both through ACS-sponsored speaker tours, as

well as during her personal travels. Sally performs chocolate chemistry outreach at every ACS SciMix. She continually grows our local volunteer base by sending welcome letters to new section members and

personally recruiting volunteers. As our Chemistry Olympiad Chair, Sally rallies hundreds of California schools to make the Olympiad a thriving success every year for the SCV Section. The SCV Section of the ACS congratulates Sally Peters for winning the 2013 Local Section Outreach Volunteer of the Year award.



Sally Peters receives the Local Section Outreach Volunteer of the Year Award from Chair Peter Rusch

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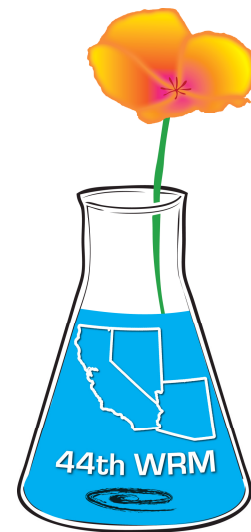
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44th Western Regional Meeting The Many Elements of Chemistry! October 3-6, 2013 Santa Clara, CA



Co-hosted by the California and Santa Clara Valley Sections

An exciting technical and event program is planned for the 44th Western Regional meeting to be held at a great venue in the Silicon Valley/San Francisco Bay area. Highlights of the meeting will include a Nuclear Chemistry Symposium in honor of Priestley Medalist Dr. Darleane Hoffman of UC Berkeley and Lawrence Berkeley National Laboratory, and the Cope Scholar Symposium in honor of Dr. Sarah Reisman of the California Institute of Technology. For updated information please see www.wrm2013.org.

We encourage scientists at all levels to submit papers and posters as soon as possible as space is limited. The closing date for submissions is August 23, 2013. The closing date for early registration is September 12th. For details on early registration and submission of papers and posters, please see the website above.

The location is at the Hyatt Regency Santa Clara, convenient to the San Jose International Airport, where a special \$139/night room rate has been arranged, which includes free wifi and free parking.

An exciting and wide-ranging technical program is on tap to offer something for everyone, from traditional areas, to more specialized programs. Planned sessions include:

Analytical Chemistry
Biochemical Technology
Biofuels
Chemical Safety
Entrepreneurship
Environmental Chemistry
Ethnobotany
Fuel Chemistry

Hydraulic Fracking
Inorganic Chemistry
Chemistry and the Law
Medicinal Chemistry
Nanomaterials
Natural Products
Nuclear Chemistry

Organic Chemistry
Organometallic Chemistry
Pharmaceuticals
Physical Chemistry
Polymer Chemistry
Process Chemistry
Renewables
Solar Chemistry

There will also be several programs for educators at the high school and college levels. Workshops in Career Development, Leadership Development, Safety and a special workshop in Polymorphs and Salt Selection, co-hosted by CACO-PBSS, are scheduled. Poster sessions are being scheduled throughout the meeting.

There will be a large Exhibition with commercial vendors and university graduate school representatives and will include small group presentation opportunities. Vendor early registration closes July 1. Early registration is recommended as space may become limited. Please see www.wrm2013.org for more information.

Special evening events will include the regional awards banquet featuring a talk by Priestly Medalist Dr. Richard Zare, an evening with Dr. Charles Bamforth on beer chemistry, and an evening with Shirley Corriher and Dr. Sara Risch on flavor chemistry. Luncheons with ACS President Dr. Marinda Wu sponsored by the California Section WCC and an ACS Governance lunch meeting with members of the Board of Directors are also planned. A Sunday public outreach event at the nearby Great America Theme Park is also in the works!

Make your plans now to join us for a great meeting, and don't forget to submit your paper or poster!

Highlights of the Family Picnic and Awards Ceremony, July 13th



Barbara and Joe Evans, Rajinder and Prithipal Singh



From the left: Carol Ann Parker, David Nehrkorn, Jim McClure, Melanie Billigmeier, Natalie McClure and Nancy Hobbs



The Keck Lobby during wine tasting



Dinner is served



Ida and Bruce Raby



Peter Rusch and Mark Kent



Hugh Dubb, Yvonne Aronowitz, Randa Marhenke and Sheldon Aronowitz



Peter Rusch, Carol Duane, Mamie Moy and Michael Dong



Sarah Tidwell and Natalie McClure



George Lechner and George Gray



Mamie Moy
Shirley Radding Award



Harriette Huff - 65 years



Prithipal Singh - 50 years



George Lechner - 50 years



George Gray - 50 years



Nataie McClure, left, receives Ottenberg Award
from Lois Dunham



James Collman- 50 years



Yvonne Aronowitz - 50 years



Peter Mueller - 50 years

CHEMEMPLOYMENT ABSTRACTS AUGUST 2013

For a complete list of current abstracts, please visit: www.scvacs.org/Local_Folder/abstract.htm

CHEMEMPLOYMENT ABSTRACT 3983

Position Title: Chemist

Job Description: The analytical chemist is responsible for assembling and testing new suppressor products and new chromatography consumable products. Approximately 80% of the job duty is lab work. Info at www.thermofisher.com/careers - jobcode: SB20131802-69726

QUALIFICATIONS DESIRED:

Education: Bachelors Degree required in Chemical or Biological Sciences or similar preferred

Experience: Minimum of two years of practical experience with analytical instruments preferably HPLC or related technologies or one year of the above experience with a MS degree in a related area.

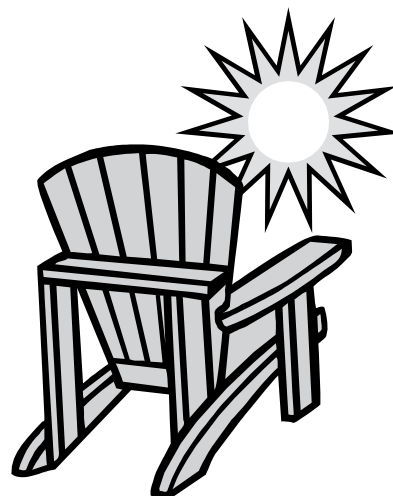
LOCATION, SALARY, EMPLOYER:

Job Location: Sunnyvale, CA

Salary: Commensurate with experience

Employer: Thermo Fisher Scientific is the world leader in serving science. Our mission is to enable our customers to make the world healthier, cleaner and safer, with revenues of \$13 billion.

Application Instructions: Please apply online at www.thermofisher.com/careers - jobcode: SB20131802-69726

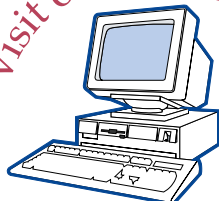


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ChemPloyment Abstracts

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FUTURE MEETINGS

Aug 21	BioScience Forum <i>www.biosf.org/programs.htm</i>
Sep 8-12	246th ACS National Meeting and Exposition Indianapolis, IN
Sep 19	September Dinner Meeting: Gene Patenting Jacob S. Sherkow, J.D. Basque Cultural Center South San Francisco, CA
Oct 3-6	Western Regional Meeting Santa Clara, CA <i>www.wrm2013.org</i>
Oct 6	Great America Outreach
Oct 20-26	National Chemistry Week