

# Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 29 No. 3

## MARCH 2007 NEWSLETTER TOPICS

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## March Dinner Meeting Reminder

Join us on March 14th for a presentation provided by Dr. Gerald Meyer. His presentation is entitled "Energy for the Twenty First Century." Dr. Meyer will present information regarding petroleum products and the use of coal as well as alternate sustainable resources of energy. Dr. Meyer suggests that an aggressive R&D program could vastly improve the current energy crisis.

We will convene at the Biltmore Hotel & Suites located at 2151 Laurelwood Blvd. in Santa Clara. Social hour begins at 6:00 PM with dinner followed by the presentation starting at 7:00 PM. The \$27.00 dinner includes the choices below.

Please make your reservations by March 9th either on line at our web site [www.scvacs.org](http://www.scvacs.org) or by contacting Shirley Radding at 408-246-2564. Reservations should include your name, address, company affiliation, number of people in your party, and

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## April Dinner Meeting

### The H. L. Hunley: Recovery and Preservation

Dr. Jack Breazeale



#### Abstract

On the night of February 17, 1864 the Confederate submarine, the H.L. Hunley, attacked and sank the USS Housatonic. The attack occurred in Charleston Harbor on the South Carolina coast. The Hunley and its crew never returned from the mission. That is, until 8:37 A.M. on August 8, 2000, when the submarine and its crew were recovered off the South Carolina coast. Work is complete on the recovery of the crew and continues on the preservation of the vessel. The talk will include a brief history of the Hunley, explain the search and recovery process, and a brief discussion of the continuing preservation process of the submarine.

#### Biography

Dr. Jack Breazeale received his Ph.D. from the University of South Carolina in 1966. He taught at Winthrop College in Rock Hill, SC from 1965-1970. In 1970 he was a founding faculty member of a new state college in Florence, SC: now Francis Marion University. From 1970 until his retirement in 1997, he was chair of the Department of Chemistry and Physics and Professor of Chemistry. Dr. Breazeale has been active in the American Chemical Society for over 40 years. He has served nine years as a member of the ACS Committee on Chemical Safety including three years as chair. He also held offices in the ACS Division of

Chemical Health and Safety including that of chair. Other activities at the national level have included appointments to the Committee on the Economics Status of Chemists, the Committee on Constitution and Bylaws, the National

*continued on next page*

## April Dinner Meeting

**Date:** Wednesday, April 18, 2007

**Time:** 6:00 Social Hour  
7:00 Dinner  
8:00 Presentation

**Location:** Biltmore Hotel & Suites  
2151 Laurelwood Blvd.  
Santa Clara, CA 95054  
[www.hotelbiltmore.com](http://www.hotelbiltmore.com)

**Speaker:** Dr. Jack Breazeale  
"The H.L. Hunley:  
Recovery & Preservation"

**Cost:** \$27.00 with the choice of  
Baked Mahi Mahi or  
Cheese Ravioli  
Includes wine with dinner.

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

Reservations should be made by April 13th, 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 Monday, April 16th, you will be invoiced following the dinner meeting.

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## March Dinner Meeting

**Date:** Wednesday, March 14, 2007

**Time:** 6:00 Social Hour

7:00 Dinner

8:00 Presentation

**Location:** Biltmore Hotel & Suites  
2151 Laurelwood Blvd.  
Santa Clara, CA 95054  
[www.hotelbiltmore.com](http://www.hotelbiltmore.com)

**Speaker:** Dr. Gerald Meyer  
Energy in the 21st Century

**Cost:** \$27.00 with the choice of  
Chicken Teriyaki or  
Vegetarian Crepes  
Includes wine with dinner

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

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*Reminder, continued from front page*

menu selection. If you are unable to honor your reservation and do not call to cancel by March 13th, you will be invoiced following the dinner meeting.

## Academic Employment Initiative

Will You Be Starting a Faculty Job Search?

If you are interested in an academic job, plan to present an ACS Academic Employment Initiative (AEI) poster at Sci-Mix on Monday evening, 8-10 pm, August 20, at the ACS National Meeting in Boston. Faculty recruiters from a variety of colleges and universities will be there to meet poster presenters. If you are a faculty member, please urge graduate students and postdoctoral fellows who are interested in academic careers to take advantage of this opportunity. Also, if you are in a department that will be hiring new faculty next year, please take advantage of this means of meeting several candidates in a relatively relaxed and informal setting. The deadline for submitting the AEI Abstracts is April 9. For more information visit the AEI website or write to [GradEd@acs.org](mailto:GradEd@acs.org).

*April Dinner Meeting, continued from front page*

Chemistry Week Task Force with three years as chair, and the Board of Trustees for Group Insurance Plans for ACS Members. He is currently a member of the Council Committee on Committees. At the local level Dr. Breazeale has held several offices in the South Carolina Section including chair and currently serves the Section as Councilor. His interest in laboratory safety became a major professional activity in the early 1980s in the South

Carolina Section. Dr. Breazeale has presented in the Laboratory Safety Institute workshops for some twenty years. These presentations include one-, two-, and four-day workshops nationwide on various safety topics. He presently serves on the Board of Trustees of the Laboratory Safety Institute. He resides in Mount Pleasant, SC and is an Adjunct Professor of Chemistry at the College of Charleston.

## Chair's Message

Impact! Dr. Steven Dutch certainly made one at his February dinner meeting presentation. His talk about the interactions of celestial and planetary objects hitting each other was very interesting and mind boggling. We chemists tend to think, at least I do, about small things whizzing around in a "world" of reactions that make other things. In the celestial macro "world," though, things whiz around, too, and make other things, like the Earth and Moon. It was interesting to hear about what happens when meteors impact the Earth and the tremendous release of energy that ensues. What if we could just capture that energy? Of course, energy is all around us and on March 14th we will hear Dr. Gerald Meyer talk about it. Be sure to hear a most fascinating talk on the "State of the World's Energy." (My quotes.) Sign up on our website, [www.scvacs.org](http://www.scvacs.org).

Attendance at the February meeting was small. If memory serves me, it was less than 30 members. We are questioning why this is so. There maybe many reasons why: perhaps you didn't know about it, the notice

came out too late, you didn't get the newsletter (It's electronic now, you know.), you had no interest in the subject, you couldn't find a sitter, you live too far to come, you don't feel welcome at meetings when you do attend, you're too tired from working, or you have your very own personal reason. If you did not attend, let me know why not when you have a chance. One of the functions of the Santa Clara Valley Section of ACS is to provide a forum for chemists to gather together, share our experiences, and listen to what other chemists have to say. So, what say you?

Last month, I commented on our young "future chemists and scientists." Coming up is the Chemistry Olympiad that Sally Peters is coordinating for high school chemistry students. The Section supports this very valuable avenue for young students to get together and test their scientific skills, especially in the area of chemistry. If you can help by volunteering to proctor the upcoming exams, let Sally or me know. In 2006, more than 120 students in our Section participated by taking the examination. 15 students were selected to take the national examination in April. Nationally, 20 students are selected, based on exam scores, to attend a study camp at the U.S. Air Force Academy in Colorado. From this group, a team is selected to represent the U.S. at the International Chemistry Olympiad, this year in Moscow, Russia. Can you help?

See you at our next dinner meeting.

*George Lechner*



## NORM 2007 To Meet in Boise, ID

62nd Northwest Regional Meeting to Meet in Boise, Idaho from June 17 to 20.

Because of an increasing scientific population and no local section nearby, the Richland, WA, local section is hosting NORM 2007 in Boise, ID. As a result, the Boise chemists are applying for local section status. With a regional meeting in the area, ACS members will have an opportunity to meet and welcome the Boise chemists to the Northwest region!

NORM 2007 will be meeting in conjunction with the annual meeting of the Pacific Division of the American Association for the Advancement of Science (2007 AAASPD). This offers an opportunity for a broad spectrum of topics for the scientific communities represented, with special emphasis on the chemical sciences.

Symposia include an Experimental Green Chemistry Lab, Thermodynamic Modeling, Effect of Contaminants on Fuel Cells, Agricultural and Public Health Protection, Radiopharmaceuticals, Undergraduate Chemistry Demos, Semiconductor Materials, and Community College Options in Chemistry.

The meeting opens Sunday with a poster session and welcome mixer. In addition to an opportunity to meet and talk with ACS governance, attendees will have an opportunity to have lunch and a field trip to the Birds of Prey Center. Visit their website for more details:

[http://northwestchemistry.org/Norm\\_2007](http://northwestchemistry.org/Norm_2007).

Both advance registration and abstract submittal are now open and may be accessed through the meeting website. Such an intriguing program should be an incentive for ACS members to contribute their work and participate in this innovative meeting!



## 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 2007 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 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  
1995 Agnes Ann Green (deceased)  
1996 John F. "Jack" Riley  
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  
2006 Janan M. Hayes

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.

Nominations are due on or before May 1, 2007, and must be mailed to:

Radding Award Committee  
Santa Clara Valley Section ACS  
P. O. Box 395  
Palo Alto, CA 94302



## Electronic Newsletter

The Electronic Newsletter is here! Check it out.

SCV-ACS monthly newsletter is now available electronically. If you haven't already done so, please be sure to register your email address by going to [www.scvacs.org/newsletter/index.html](http://www.scvacs.org/newsletter/index.html).

The section entitled "Notification Service" provides a link where you can add your email address to the Yahoo! list server. This list server notifies our members when a new newsletter is placed on our web site. Many members are already taking advantage of this service. However, if you do not have an email address, you can still receive a printed copy of the newsletter through the U.S. Postal Service but we need to know this. Send us a postcard or letter notifying us of your preference to SCV-ACS, P.O. Box 395, Palo Alto, CA 94302-0395.

Please be certain to sign up for the electronic copy, if possible. We can save the Section's money by reducing the number of copies mailed each month and save a few trees as well!

# Highlights from the Mosher Award - January 18, 2007

Photos: courtesy of Lois Durham



## CHEMPLOYMENT ABSTRACTS MARCH 2007

### **CHEMPLOYMENT ABSTRACT 3880**

*Position Title:* Research Associate – Medicinal Chemistry

*Job Description:* We have a position available for an Organic Chemist who will be responsible for the design and synthesis of biologically active small molecules. The candidate will participate in our drug discovery efforts as part of a multi-disciplinary project team.

**QUALIFICATIONS DESIRED:**

*Education:* The candidate must possess a BS/MS in Organic Chemistry

*Experience:* Minimum 1-5 years' pharmaceutical and/or academic research experience in chemistry. Expertise in multi-step synthesis, compound purification and structural characterization to provide compounds for biological testing and support the scale up of lead molecules required. Knowledge in the interpretation of his/her own spectral and LC/MS analytical data required.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* 1 DNA Way, South San Francisco, Ca., 94080

*Salary:* DOE

*Employer Description:* For 30 years, Genentech has been at the forefront of the biotechnology industry, using human genetic information to develop novel medicines for serious and life-threatening diseases.

*Application Instructions:* To learn more about all of our current opportunities, please visit [www.gene.com/careers](http://www.gene.com/careers) and reference Req.# 1000016542. EOE

### **CHEMPLOYMENT ABSTRACT 3881**

*Position Title:* Scientist, Analytical Chemistry

*Job Description:* You will be expected to establish a physicochemical characterization program for compounds produced by the medicinal chemistry department. This could include, but not be limited to, pKa, solubility, and Log D assays. In addition, you will have exceptional chromatographic skills to lead required separation efforts in analytical and medicinal chemistry. The use of these skills to establish and run a high-throughput purification and characterization system is a strong plus.

**QUALIFICATIONS DESIRED:**

*Education:* Candidates must have a Ph.D. in chemistry or analytical chemistry, or equivalent industry experience

*Experience:* Minimum of two years industry experience

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* South San Francisco, CA

*Salary:* Achaogen is committed to hiring the best qualified individuals. We offer a competitive compensation and benefits package and we are proud to be an equal opportunity employer.

*Employer Description:* Achaogen is a startup biotechnology company located in the San Francisco Bay Area. Our mission is to develop novel solutions to the critical problem of antibiotic-resistant bacteria. We have received financing from a world-class team of experienced life science investors, as well as the Department of Defense, and have established collaborations with infectious disease thought leaders throughout the United States and Europe.

*Application Instructions:* Please submit resume and cover letter as a word document or pdf to [resumes@achaogen.com](mailto:resumes@achaogen.com) or fax to 650.266.1130 and reference Job Code 07-2006

**CHEMPLOYMENT ABSTRACT 3882**

*Position Title:* Analytical Chemist III

*Job Description:* This position will be responsible for recommending, developing, validating, and performing quality control methods for the organization. The successful candidate will be proficient in the analysis and handling of pharmaceutical small molecules and corresponding drug products using chromatographic and spectroscopic tests, e.g., HPLC, GC, NMR, FT-IR, UV-Vis, Fluorescence, and associated lab instrumentation as well as USP/EP wet chemistry methods.

**QUALIFICATIONS DESIRED:**

*Education:* Bachelors in Chemistry or equivalent, MS/PhD preferred

*Experience:* A minimum of 10 years of experience in pharmaceutical Quality Control or equivalent early phase GMP technical support position. Previous supervisory experience required. Effective written and verbal communication skills, strong interpersonal skills, and experience working in a mentoring capacity. Extremely detail oriented with strong organizational skills, and high quality standards.

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* Menlo Park, CA

*Salary:* DOE

*Employer Description:* FSRI International, an independent non-profit organization founded as the Stanford Research Institute in 1946, is a leader in the development of new products for the treatment and diagnosis of disease.

*Application Instructions:* To see full description and to apply visit our web page at: <https://sri.ats.hrsmart.com/cgi-bin/a/highlightjob.cgi?jobid=3341>. SRI is an equal opportunity employer. Learn more about other career opportunities at: [www.sri.com/jobs](http://www.sri.com/jobs)

**CHEMPLOYMENT ABSTRACT 3883**

*Position Title:* Postdoctoral Research Staff Member

*Job Description:* The successful candidate will become a member of the Chemical Sciences Division/Forensic Science Center and will be responsible for contributing to the conception, design, and execution of analytical research problems, establishing and maintaining laboratory protocols, and keeping an accurate and detailed laboratory notebook. Designing and conducting research, collecting data, conducting analysis, coordinating activities and presenting results will be essential. The successful candidate will author and generate written reports of research findings and publish research in peer-reviewed literature. He/she will also present formal and informal overviews of research at internal meetings, and national and international conferences. This position will travel, as required, to coordinate research between Lawrence Livermore National Laboratory (LLNL) and other government agencies.

**QUALIFICATIONS DESIRED:**

*Education:* Recent Ph.D. in Chemistry or closely related field

*Experience:* Demonstrated research experience in applied mass spectrometry. Expertise in development or application of methods to quantify trace organic analytes in complex matrices. Ability to develop and conduct independent research projects with minimal guidance. Experience collaborating effectively with a team of scientists of diverse backgrounds. Publication record in peer-reviewed journals. Effective communication and interpersonal skills necessary to work in a collaborative research environment and to document and present research results

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* Livermore, CA *Salary:* DOE

*Employer Description:* R&D development in the national interest thrives at LLNL. By encouraging a competition of ideas, instilling respect for individual contributions, and embracing a diverse and motivated work force, we make breakthroughs that have global impact.

*Application Instructions:* To view and apply for this job, go to <http://jobs.llnl.gov> and search by job #006395. When applying and prompted please mention where you saw this ad. LLNL is operated by the University of California for the National Nuclear Security Administration/Department of Energy. We are proud to be an equal opportunity employer with a commitment to workforce diversity.

**CHEMPLOYMENT ABSTRACT 3884**

*Position Title:* Lecturers, Organic Chemistry

*Job Description:* The Department of Chemistry at Santa Clara University seeks Lecturers for organic chemistry lectures and labs during the 2007 summer session. Organic I meets June 18 to July 6; Organic II meets July 9-27; Organic III meets July 30 to Aug 17. Lectures are three hours in length and meet M-F; openings are available during the second and third summer sessions. Labs are 4.5 hours in length and meet twice each week; openings are available during the first and third summer sessions. Specific teaching responsibilities for lecture and lab courses are provided at the websites given below.

**QUALIFICATIONS DESIRED:**

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

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

**LOCATION, SALARY, MAIL ADDRESS:**

*Job Location:* Santa Clara University

*Salary:* \$5,800 - \$9,500 per three-week session, depending on enrollment, for lecture course, \$3,000 for each lab section

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

*Application Instructions:* Please submit a curriculum vitae, a copy of graduate transcripts, and two letters of recommendation to Dr. Jack Gilbert, Chair, Department of Chemistry, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053. E-mail: [jjgilbert@scu.edu](mailto:jjgilbert@scu.edu). Individuals employed within the last year at SCU need only contact Dr. Gilbert to express interest in the position. See [www.scu.edu/chemistry](http://www.scu.edu/chemistry) or [www.scu.edu/hr/careers/faculty.cfm](http://www.scu.edu/hr/careers/faculty.cfm) for more details.





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

Visit our web site at:



<http://www.scvacs.org>

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## SANTA CLARA VALLEY SECTION

### 2007 Section Officers

Chair	<b>George Lechner</b>	408-226-7262	glechner@aol.com
Past Chair	<b>David Parker</b>	408-615-4961	dparker@ci.santa-clara.ca.us
Chair Elect	<b>Mark Kent</b>	408-736-0989	marklent@yahoo.com
Secretary	<b>Karl Marhenke</b>	831-688-4959	karlmar@armory.com
Treasurer	<b>Herb Silber</b>	408-924-4954	hbsilber@sjsuvm1.sjsu.edu

### Councilors

2005-2007	<b>Herb Silber</b>	408-924-4954	hbsilber@sjsuvm1.sjsu.edu
2006-2008	<b>Abby Kennedy</b>	650-837-8043	akennedy@exelixis.com
2006-2008	<b>Jack Riley</b>	925-256-4050	jfriley2004@sbcglobal.net
2006-2008	<b>Ean Warren</b>	650-329-4554	ewarren@scvacs.org
2007-2009	<b>Linda Brunauer</b>	408-554-6947	lbrunauer@scu.edu
2007-2009	<b>Sally Peters</b>	650-812-4994	Sally.Peters@parc.com
2007-2009	<b>Peter Rusch</b>	650-961-8120	pfrusch@aol.com
2007	<b>George Lechner</b>	408-226-7262	glechner@aol.com

### Alternate Councilors

2005-2007	<b>Mark Kent</b>	408-736-0989	marklent@yahoo.com
2006-2008	<b>Ihab Darwish</b>	650-343-4456	darwishis@yahoo.com
2006-2008	<b>David Parker</b>	408-615-4961	dparker@ci.santa-clara.ca.us
2006-2008	<b>Bruce Raby</b>	408-294-6718	brida954@comcast.net
2007-2009	<b>Ernest Gargas</b>	408-365-2866	eggargas@yahoo.com
2007-2009	<b>Natalie McClure</b>	650-851-1052	nmcclure@drugregulatoryaffairs.com
2007-2009	<b>Maureen Scharberg</b>	408-924-4966	mscharberg@earthlink.net
2007	<b>Ferenc Makra</b>	415-730-0387	ferenc.makra@roche.com

### Newsletter

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### ChemPloyment Abstracts

Director: **Charles Sullivan** 650-359-0731 [cdansullivan@sbcglobal.net](mailto:cdansullivan@sbcglobal.net)

## FUTURE MEETINGS

*Mark your calendars for these great upcoming events.*

<b>Mar – Apr</b>	Chemistry Olympiad Local Section exam administration
<b>Mar 14</b>	SCV Dinner Meeting Dr. Gerald Meyer Biltmore Hotel & Suites Santa Clara, CA
<b>Mar 25-29</b>	223rd ACS National Meeting Chicago, IL
<b>Apr 18</b>	SCV Dinner Meeting Dr. Jack Breazeale Biltmore Hotel & Suites Santa Clara, CA
<b>Apr 28</b>	2007 UNCO National Exam Santa Clara University
<b>Jun 3-7</b>	40th National Organic Chemistry Symposium Duke University
<b>Jun 17-20</b>	Polymers in Medicine and Biology Santa Rosa, CA



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