

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

Volume 29 No. 5

MAY 2007 NEWSLETTER TOPICS

- May Dinner Meeting: An Introduction to Climate Change
- Chair's Message
- The Synopsys Championship
- Councilor's Report
- National Chemistry Week: The Many Faces of Chemistry
- 3rd Annual Scramble Golf Tournament
- SCV Member-Volunteer Recognized by the Tech Museum
- CHEMPLOYMENT ABSTRACTS

May Dinner Meeting

Date: Thursday, May 17, 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

Speaker: Dr. Joylette Portlock
An Introduction to
Climate Change
Featured in the Movie
'An Inconvenient Truth'

Cost: \$27.00 with the choice of Filet of Salmon or Vegetarian Pasta Primavera
Includes wine with dinner.

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

Reservations should be made by May 14th, stating your name, address, company affiliation, number of people in party, and menu selection. If you are unable to honor your reservation and do not cancel by Wednesday, May 16th, you will be invoiced following the dinner meeting.

Reminder: May Dinner Meeting An Introduction to Climate Change

Dr. Joylette Portlock

Abstract

The conclusion drawn from decades of research by hundreds of climate scientists across the world is that global warming is occurring, and human activity (specifically, the production of greenhouse gases from fossil fuels) is the major contributing factor. Changes in the global climate are already dramatically affecting people worldwide, and, left unchecked, the effects of these changes will become more and more pronounced. Right now, there is a window of time in which to act to prevent the worst effects of the climate crisis. There are many steps that every one of us can take to increase our energy efficiency and move toward building the responsible, sustainable civilization of tomorrow.

The Climate Project is a movement to educate and engage both citizens and governments in an effort to solve the growing climate crisis. As a non-profit group, we work to make the public aware of the urgency, impact and need for action to confront global warming through education, research and citizen action programs. The presentation will cover some basic climate science as well as several of the key findings that demonstrate the presence and extent of global climate change. Specific, up-to-date examples and possible future consequences of climate change are elaborated. The presentation concludes by examining the



societal forces that have contributed to the climate crisis, followed by some prescriptions for solutions at both the national and individual level.

Biography

Dr. Joylette Portlock has been interested in conservation for as long

as she can remember, having started her family recycling while she was in middle school, and co-founding her high school's Earth Club.

Scholastically, she pursued biology at MIT and completed her Ph.D. in genetics at Stanford University in 2006. She currently works at the Exploratorium in San Francisco.

She and her husband live in Mountain View, California, where they enjoy gardening, compost their greenwaste, and purchase offsets for the carbon emitted by their electricity, natural gas, and transportation fuels.

Last fall, Dr. Portlock was selected by The Climate Project to travel to Nashville, TN, and be trained to give a live, updated version of the presentation on climate change featured in the documentary "An Inconvenient Truth".



Chair's Message

Now that my taxes are done, I can get down to writing my Chair's message for May. Hey, I had three to do!

I had the distinct pleasure recently, along with Howard Peters, to present Synopsys Science & Technology Championship awards to the lucky winners. This was done in the Paramount Theater at Great America on April 1st. I suppose that Howard will be writing about this also. What impressed me was the enthusiasm and excitement of these young budding scientists and explorers. The students at the championship event I attended were from high schools in Santa Clara County and had developed science fair projects that exhibited their particular interests and pas-

sions. The winners had projects that were very challenging and addressed many areas of concern in today's world. The topics ranged from what happens to carrots in microwaves, to energy in food, flowers and gasohol and the first-place winner, Uppili Raghunathan from Lynbrook High School, chose to demonstrate the "Electrochemical Reduction of Citral in Lemongrass Oil." Uppili and many of his contemporaries won awards from other organizations in addition to their prizes from the Santa Clara Valley Section. Congratulations and good luck to them all.

If you want to see these students in action, I strongly recommend that you volunteer to be a judge in the next science fair you hear about. Contact Howard Peters or myself to put your name on the list.

While I'm on the volunteering bit, I would encourage you to take some time out of your busy schedules to help out. The Chemistry Olympiad is currently underway as I write this and exam proctors are needed. Also, National Chemistry Week is coming up in October and planning for the various NCW events is going on. A few extra hands and ideas are needed and always welcome. Watch the newsletter for this and other section activities that might interest you.

Don't forget to sign up for the May dinner meeting. The speaker's topic is on Global Warming. And plan to attend the annual family summer picnic at Stanford in July. Check the newsletter and our website, <http://www.scvacs.org>, for more information.

George Lechner

The Synopsys Championship

Howard Peters

The ACS Santa Clara Valley Local Section and the ACS Division of Chemistry and The Law (CHAL) worked together at two local science fairs. "SciencePalooza!" was held at the Santa Clara County fairgrounds on March 3 2007, and the Synopsys Championship was held at the San Jose Convention Center on March 14, 2007. First time entrants included East Side Union High School District students who participated in Sciencepalooza! on March 3rd.

Our local section provided \$1,000 in awards to the championship winners on Sunday, April 1st during Science Fair Day at Paramount Great America. Winners, teachers, and some parents and presenters received a full day of admission to the amusement park.

Our winners were as follows:

• \$500 First Prize

Awardee: Uppili Raghunathan
Project: Electrochemical Reduction of Citral in Lemongrass Oil
Teacher: Roy Rocklin
School: Lynbrook High School

• \$200 Second Prize

Award Recipient: Neelam Grewal and Amanjeet Kaur

Project: Flower Power
Teacher: Narquiz Cervantes
School: Silver Creek High School

• \$100 Third Prize

Award Recipient: Peter Hadar
Project: Gasohol! Miracle Fuel or Snake Oil?
Teacher: Mark Cahn
School: Kehillah Jewish High School

Award Recipient: Eric Liao
Project: Carrots in the Microwave
Teacher: Hailey Moilanen
High School: Lynbrook High School

Award Recipient: Christina Lee
Project: Energy Content of Foods
Teacher: John C. Howe
School: Presentation High School



George Lechner (Chair SCV-ACS) and Dr. Howard Peters (ACS Board of Directors) discuss the best way to present the local awards.



From left: George Lechner, Uppili Raghunathan, Neelam Grewal and Amanjeet Kaur

First time entrants included East Side Union High School District students who participated in Sciencepalooza! on March 3rd. A total of 114 students participated in the Synopsys Championship at the Santa Clara County Science Fair on March 14. Of these students, 41 won awards at the Synopsys Championship and 8 students are advancing to the California State Science Fair while another 4 students are advancing to the Intel International Science Fair (Intel ISEF). SCV members were active for these and other local science fairs. Several members also plan to serve as Category and ACS judges for the Intel International Science and Engineering Fair (<http://www.sciserv.org/>) for US and foreign high school students. Intel ISEF will be held in Albuquerque, NM, May 15-16, and more judges are always welcome.

Councilor's Report

The ACS Council met in regular session on March 28, 2007, in Chicago, IL during the 233rd ACS National Meeting. All of our Section's councilors were represented.

Nominations for President-Elect

- By written ballot, the Council selected Thomas H. Lane and Howard M. Peters as candidates for President-Elect in 2008. These two candidates will stand for election in the 2007 Fall National Election.

Congratulations to Howard who is a member of our Section and currently serves as Director-at-Large on the ACS Board of Directors.

Committee Performance Reviews

- As part of a regular review, the Council voted to continue the Committee on Science, the Women Chemists Committee, and the Younger Chemists Committee - subject to concurrence by the Board of Directors. The Committee on Science provides an organizational framework to facilitate policy formulation, actions, and planning in several areas of ACS activity directly related to the science of chemistry. The Women Chemists Committee was established to recognize women chemists and to encourage them to take an active interest in Society activities, and the Younger Chemists Committee facilitates communication of ideas and attitudes between the governing bodies of the Society and younger chemists.

Petitions

- The Council voted to split consideration and action on the Petition on Election Procedures 2006 into two parts: Part 1 changed the timing of run-off elections and specifies an election process for situations in which only one Director-at-Large position is open, and Part 2 addressed consistency in national election procedures. It proposed changes to standardize the petition and election processes for President-Elect and all Director positions. The Council voted to accept Part 1. For Part 2, the

Council voted to resubmit this petition back to the Committee on Nominations and Elections for reconsideration.

- The Petition on Rules for Nominating Members of N&E for National Offices establishes a one-year waiting period following service on the Committee on Nominations and Elections before an individual can be nominated for District Director, President-Elect or Director-at-Large. The Council defeated this petition by recorded vote meaning that each Councilor's name and respective vote will be published in C & E News.
- The Council voted to accept the Petition on Multi-Year Dues allowing members paying full dues without any of the discounts to pay for periods of two or three years, if they wish, at a rate equal to two or three times the rate for a one-year period. Council also voted to make this petition effective when technical components are instituted to offer and track the payments, but no later than January 1, 2010.
- The Board of Directors will vote within 90 days on whether to ratify the approved petitions.
- The Council received one petition for consideration: the Petition on Local Section Affiliations. The petition amends the current Society bylaws regarding the responsibilities of the Committee on Local Section Activities (LSAC) in oversight of the establishment of affiliations by local sections with other technical organizations.

2008 Member Dues

- The Council voted to accept the member dues for 2008 at the fully escalated rate of \$136. This rate is established according to an inflation-adjustment formula in the ACS Constitution and Bylaws.

The Society's Finances

- The Society ended 2006 with a net contribution from operations of \$12.2 million, on revenues of \$424.0 million and expenses of \$411.9 mil-

lion, which was \$7.8 million favorable to the approved budget. The contribution was primarily attributable to higher-than-budgeted electronic services revenue and investment income, as well as expense savings from lower-than-budgeted health care costs and reduced IT spending. In addition, the Society ended 2006 in full compliance with the Board-established financial guidelines.

Registration Report

- As of March 27, 2007, the ACS spring national meeting had attracted 14,520 registrants as follows: Regular attendees 7,152; Students 5,059; Exhibitors 1,283; Exposition only 573; and Guests 453.

Future National Meetings

- The Council voted to approve dates and sites for the 2017 national meetings as follows: April 2-6, San Francisco, California; and September 10-14, St. Louis, Missouri.

New Local Section

- The Council voted to establish the Snake River Local Section with headquarters in Boise, ID. This brings the total number of local sections to 190.

Member Statistics

- ACS closed 2006 with 160,491 members, the highest year-end membership since 2002. There were 17,882 new members in 2006. The Society has a 92% retention rate among members.

Chemical Professional's Code of Conduct

- The Council voted to approve the Chemical Professional's Code of Conduct as submitted by the Committee on Economic and Professional Affairs. This document offers guidance for Society members in various professional dealings, especially those involving conflicts of interest.



National Chemistry Week "The Many Faces of Chemistry"

October 21-27, 2007

October seems far away, but it and National Chemistry Week (NCW) will be here before we know it. Each year the American Chemical Society's NCW campaign reaches millions of people with positive messages about the contributions of chemistry to their daily lives. It is the one time during the year that chemists unite with the common goal of spreading the word that chemistry is good for our economy, our health, and our well-being. The celebration dates for 2007 are October 21 - 27 with the theme, "The Many Faces of Chemistry."

Planning starts long before NCW arrives, and the SCV local section coordinator is Abby Kennedy. Contact the NCW Coordinator at akennedy@exelixis.com.

Some ways that you can contribute to the NCW campaign are: helping at an event planned by the NCW coordinator; performing chemical demonstrations at a neighborhood school; conducting hands-on activities

with children at museums, malls or libraries, or writing articles or letters to the editor of the local paper.

NCW is sponsored by the Office of Community Activities (800-227-5558 ext. 6097, ncw@acs.org). Visit <http://chemistry.org/ncw> over the summer as more content is added!

Please join the celebration!

3rd Annual Scramble Golf Tournament

The California Section invites you to join them in the 3rd Annual Scramble Golf Tournament on June 2nd at the Alameda Golf Course in Alameda (centrally located for all Bay Area chemists!). We hope to see chemists from all over the Bay!

SCV Member-Volunteer Recognized by the Tech Museum

In the spring issue of the Tech Museum newsletter Bruce Raby was recognized for his services to the Tech. He volunteers by teaching in the labs in the mornings, by manning a station in the gallery in the afternoons, and by providing information to visitors and helping staff at night events. As they say, "Bruce loves The Tech and The Tech loves Bruce."

Bruce has volunteered as a judge for a number of science fairs supported by SCV and was the leader of the chemistry judge teams at the recent Synopsis Awards.

CHEMPLOYMENT ABSTRACTS MAY 2007

CHEMPLOYMENT ABSTRACT 3885

Position Title: Process Economics Chemical Engineer - Sr. Consultant

Job Description: SRI Consulting (SRIC) is looking for a chemical engineer to join its Process Economics Program (PEP) as a senior consultant. PEP develops models & costs commercially-viable process designs for the chemical & other major industries, & conducts private research & process evaluations for clients.

QUALIFICATIONS DESIRED:

Education: BS Chem. Engineering, Chemistry or equiv experience; MBA a plus.

Experience: 5-8 years of experience in process design, knowledge in evaluating chemical process technologies with a major chemical company is preferable. Excellent written and verbal communication skills are required. Advantage: knowledge of AspenPlus & other process design & simulation & costing software.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Menlo Park, CA (headquarters) or The Woodlands, TX

Salary: Competitive

Employer Description: SRIC is the world's leading business research service for the global chemical industry. Publishing for almost 60 years, SRIC is the pre-eminent source for in-depth business and process analysis. Programs include the Process Economics Program, Chemical Economics Handbook, Specialty Chemicals Update Program, and World Petrochemicals Program. SRIC is a division of Access Intelligence, LLC. More information at www.sriconsulting.com.

Application Instructions: Sandi Lucas, SRI Consulting jobs@sriconsulting.com
Phone : 650-384-4318 Fax : 650-384-4273

CHEMPLOYMENT ABSTRACT 3886

Position Title: Senior Consultant – Chemical Economics Handbook

Job Description: SRI Consulting (SRIC) is looking for a consultant responsible for researching chemical markets and writing market research reports on the chemical industry for the Chemical Economics Handbook; providing advisory services to clients and customer service liaison; marketing reports and program to prospective clients; maintaining existing databases; and attending conferences in specialized area.

QUALIFICATIONS DESIRED:

Education: BS or BA in Chemistry or Chem Eng or bio sciences; MBA a plus.

Experience: 5-8 years industry experience in market research and/or business development or marketing; the ability to critically analyze and formulate conclusions, combined with knowledge of database and literature search; a self-starter who is flexible and can handle a variety of assignments under time and budget constraints with minimal supervision; and is a good team player. Excellent written and oral communication and computer skills are additional requirements for this position.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Menlo Park, CA or The Woodlands, TX

Salary: Competitive

Employer Description: SRIC is the world's leading business research service for the global chemical industry. Publishing for almost 60 years, SRIC is the pre-eminent source for in-depth business and process analysis. Programs include the Process Economics Program, Chemical Economics Handbook, Specialty Chemicals Update Program, and World Petrochemicals Program. SRIC is a division of Access Intelligence, LLC. More information at www.sriconsulting.com.

Application Instructions: jobs@sriconsulting.com Fax : 650-384-4273

CHEMPLOYMENT ABSTRACT 3887

Position Title: Academic year lecturers (AYLs)

Job Description: Two AYLs (non-tenure track) are sought for one- or two-year terms beginning Fall 2007. The AYLs will teach the equivalent of seven quarter-long courses per year, with the courses being selected from a combination of lecture and laboratory sections in general chemistry, organic chemistry, chemistry for non-science majors, and other courses as may be assigned.

QUALIFICATIONS DESIRED:

Education: Ph.D. in chemistry is required.

Experience: Prior teaching experience strongly preferred. Individuals who feel they can contribute to Santa Clara University's commitment to excellence through diversity are invited to detail their experience with underrepresented groups in science in the cover letter or a separate statement.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Santa Clara University

Salary: \$46,900-\$49,700 per year depending on experience; benefits eligible.

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

Application Instructions: Applicants should submit a curriculum vitae and copies of undergraduate and graduate transcripts, a statement of interest and experience in teaching these or related subjects, and have three letters of recommendation sent to Prof. Patrick Hoggard, Department of Chemistry, Santa Clara University, 500 El Camino Real, Santa Clara, CA 95053 (e-mail: phoggard@scu.edu).

CHEMPLOYMENT ABSTRACT 3888

Position Title: Quality Control Program Director, Biosciences Division

Job Description: Plans, organizes, and manages resources on projects totaling 4-10 person years to assure technical and regulatory quality, budget, and schedule adherence. Conceives, directs, plans, designs, and executes method development, method validation, and testing for formulation development, GLP dose verification, and GMP quality control activities.

QUALIFICATIONS DESIRED:

Education: MS/PhD, analytical chemistry or related science, 10+ yrs professional experience required with a minimum 5 years cGMP supervisory experience.

Experience: Substantial knowledge of separation methods, spectroscopy, wet chemistry, and physical test methods for small molecules. Extensive knowledge of cGMP, GLP, and IND requirements is essential. Expertise in protein analysis desirable. For complete description, please visit www.sri.com/jobs.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Menlo Park, CA (San Francisco Bay Area)

Salary: DOE

Employer Description: SRI International, an independent non-profit organization, is a leader in the development of new products for the treatment and diagnosis of disease primarily in the areas of cancer, infection, neuroscience, and immunology.

Application Instructions: To see the full description and to apply, please go to: <https://sri.ats.hrsmart.com/cgi-bin/a/highlightjob.cgi?jobid=3382> SRI is an equal opportunity employer. Learn more about other career opportunities at: www.sri.com/jobs

CHEMPLOYMENT ABSTRACT 3889

Position Title: Research Scientist I - Pharmaceuticals

Job Description: Will support compound selection and lead optimization of drug candidates by measuring physical chemical properties, analyzing drug substances and drug products, and developing formulations for early preclinical studies. Will also be charged with developing a working knowledge of cGMPs, GLPs and formulation processes such as milling, granulating and capsule filling.

QUALIFICATIONS DESIRED:

Education: PhD or equivalent in Chemistry and 2+ years experience; Postdoctoral experience preferred.

Experience: We are in search of a candidate possessing a Knowledge of HPLC is essential, as is familiarity with GLP, GMP and solid-state techniques (DSC, TGA, XRD preferred). Strong laboratory and computer skills are also essential.

LOCATION, SALARY, MAIL ADDRESS:

Job Location: Palo Alto, CA

Salary: DOE

Employer Description: At Roche Palo Alto, we are committed to innovation in the discovery and early clinical development of human pharmaceuticals.

Application Instructions: To apply for this position, please visit our career website at <http://paloalto.roche.com/careers/Careers.html> and search by keyword Chemistry, Job Requisition 100544

*Happy
Mother's
Day*



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

Visit our web site at:



<http://www.scvacs.org>

To receive an email when our newsletter
is published on our web site, sign up at:
<http://www.scvacs.org/newsletter/>

SANTA CLARA VALLEY SECTION

2007 Section Officers

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

Councilors

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

Alternate Councilors

2005-2007	Mark Kent	408-736-0989	markkent@yahoo.com
2006-2008	Ihab Darwish	650-343-4456	darwishis@yahoo.com
2006-2008	David Parker	408-615-4961	dparker@ci.santa-clara.ca.us
2006-2008	Bruce Raby	408-294-6718	brida954@comcast.net
2007-2009	Stephanie Gehling	408-261-3974	s_gehling@hotmail.com
2007-2009	Natalie McClure	650-851-1052	nmccclure@drugregulatoryaffairs.com
2007-2009	Maureen Scharberg	408-924-4966	mscharberg@earthlink.net
2007	Ferenc Makra	415-730-0387	ferenc.makra@roche.com

Newsletter

Editor: **Cinzia Muzzi** 408-864-5790 muzzicinzia@deanza.edu

ChemPloyment Abstracts

Director: **Charles Sullivan** 650-359-0731 cdansullivan@sbcglobal.net

FUTURE MEETINGS

Mark your calendars for these great upcoming events.

- May 8-10** GGPF Short course on Adhesion Science
<http://www.ggpf.org/>
- May 17** SCV Dinner Meeting
Dr. Joylette Portlock
Santa Clara, CA
- May 24** CA Section ACS meeting
<http://www.calacs.org/calendar/MayMeet07.html>
- Jun 3-7** 40th National Organic Chemistry Symposium
Duke University
- Jun 12** Café Scientific: Discovering Mars
<http://www.cafescipa.org>
- Jun 17-20** Polymers in Medicine and Biology
Santa Rosa, CA
- Jul 14** Annual Wine Tasting and Awards Picnic
Stanford, CA
- Aug 19-23** 234th National ACS Meeting
Boston, MA