

Silicon Valley Chemist

Santa Clara Valley Section

American Chemical Society

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Student Affiliates Program San Jose State University

The Chemistry Department at San Jose State has a very active student affiliates program. Student activities include visits to local public schools and sharing their excitement and knowledge of chemistry through demonstrations and magic shows. Several students just returned from a successful trip to the national meeting in San Diego and will share their posters and presentations with us at this month's dinner meeting. The brief talks to be given include discussions on natural products and Bovine Immunodeficiency Virus (BIV) by Jon Karpel and Rebekah Dees. Trang Vo will tell us more about their student affiliate activities for the year.

In addition to a social hour and dinner in the newly renovated University Club we will have the opportunity to talk with San Jose State's new provost, Marshall Goodman and Dean of the College of Science, Gerry Selter (an organic chemist). Several of the student affiliates and their

professors will be joining us.

The evening will be completed with an informal tour of San Jose State's new NMR equipment in Duncan Hall. Dr. Elaine Collins will arrange parking in the Seventh Street garage, which is centrally located between the University Club and Duncan Hall.

Check the meeting section of our web site www.scvacs.org for updated information.



Chair's Message

The most important item in this month's Chair's Message is the date for the April dinner meeting. If you read the calendar closely last month and read the dinner meeting announcement this month, you will undoubtedly notice a difference. The meeting is April 19th, not April 26th! I apologize for the incorrect information. The brain is a wonderful computer, but when it gets programmed wrong it does not upgrade well! Dr. Collins and the San Jose State

University student affiliates are busy planning for us on the 19th. The meetings we have with the various student affiliate chapters are always very invigorating. Their enthusiasm for the field of chemistry is contagious.

The national test for the Chem Olympiad will be given April 21st at Santa Clara University. The top 15 high school students from the Santa Clara Valley and California sections will take the national standardized test to compete for a spot on the national team.

April Dinner Meeting



Date: April 19, 2001

Time: 6:00 pm Reception
7:00 pm Dinner
8:00 pm presentation
9:00 pm NMR lab tour

Location: San Jose State University
University Club
408 South 8th Street
San Jose, CA
(408) 924-6505

Cost: \$25 per person

Reservations: Shirley Radding
(408) 246-2564
(408) 296-8625 FAX

Reservations may also be made using our web site www.scvacs.org. Dinner reservations are required by Monday, April 16.

The International test will be Bombay, India, in July. Tricia Takahara, the chair of the event, still needs help administering the test. Contact her at patricia.takara@roche.com.

Roy Okuda has the gargantuan task of recruiting 1000 judges for the Intel International Science and Engineering Fair. He has almost 400 now, with 600 to go. The categories of Environmental Science and Zoology are where he especially needs help. Go to the Fair's web site <http://intelisef2001.org> to learn

continued on next page

Chair's Message, continued from front page

more about the event and how you can help or contact [Dr. Okuda](#) at San Jose State University (phone: 408-924-2525).

Last month I began wandering down memory lane to the founding of the local section. In the '50s, the dinners were held in different restaurants, as they are today. The lecture hall of the "old chemistry building" at Stanford was home to the lectures. One early attendee remembered coffee and doughnuts and long discussions after the talks in the new gazebo. The early '70's saw the completion of the International Building at SRI and the dinners and lectures found a home for nearly 20 years. It was during that time that I remember hearing the Nobel laureate, Linus Pauling, speak on his research on vitamin C. It was a full house that night! In 1979 the section newsletter was born, until then we shared the publication of the Vortex with the California section. Jack Riley was the tireless editor for many years.

Little did I realize that this month our newsletter would include an article about the death of our most senior member. Dr. Mosher served as chair of the section in 1955 and as an outstanding example of someone who was dedicated to his profession, his family, his students, and his professional society for more than 60 years. Because of his belief in chemistry as a profession and his dedication to the advancement of his students, we are here today.

Thank you Harry!



Calling All Runners

or anyone in search of a good time with a little exercise thrown in

The local section Younger Chemist Committee is organizing a group of participants in this year's San Francisco Bay to Breakers www.baytobreakers.com on May 20. For those of you who are not familiar with this event, the Bay to Breakers is a 7.5 mile event from downtown San Francisco through Golden Gate Park to the Great Highway in which people

enter for different reasons: some enter to race, some to walk, some to see others, and some to be seen. Many people dress in costume for the event. All this creates a kind of carnival atmosphere in which everyone has a good time. As a bonus, the local section will contribute \$25 per participating member, up to \$500 to fund local kindergarten through high

Harry S. Mosher

August, 31 1915 - March 2, 2001

Dr. Mosher, 85, Professor Emeritus at Stanford University, died of cancer on March 2nd. Dr. Mosher was born and raised in Salem, Oregon, and earned his bachelor's degree at Willamette University. After obtaining a master's degree at Oregon State, he returned to Willamette as assistant professor. In 1942 he received his Ph.D. in Organic Chemistry at the Pennsylvania State University. It was there that he met and married Carol Walker.

During WW II he supervised research on antimalarial drugs and the production of DDT while serving as an assistant professor at Penn State. The Moshers moved to California in 1947 when Dr. Mosher joined the chemistry faculty at Stanford University. His research continued in Grignard reactions, stereochemistry and began in animal toxins, discovering tarichatoxin in the newts living in the Stanford foothills. He co-authored almost 200 papers with his 75 graduate students during his career at the university.

Over the years he has studied or served as a Visiting Professor or invited lecturer in several countries around the world including: Japan, Korea, China, Switzerland, England, and Holland.

As an active member in the American Chemical Society, Dr. Mosher served as councilor of the Santa Clara Valley Section for 20 years. He was chair of the California section in 1954 and is considered by all as the "Founding Father" of the Santa Clara Valley section.

CALL FOR NOMINATIONS The Harry and Carol Mosher Award

The award was established in 1980 by the Santa Clara Valley Section of ACS to recognize and encourage outstanding work in chemistry; advance chemistry as a profession; and to recognize service to ACS. The award is named for Dr. Harry S. Mosher of Stanford University and Dr. Carol W. Mosher of SRI, husband and wife, charter members, and long-time supporters of this section.

Any scientist residing in the United States who is a member of the ACS is eligible for the Mosher Award. Five copies of the nomination, including printed materials (reprints) should be furnished for distribution to the award Selection Committee. The nomination and its accompanying material must be sent by May 15 to Chair of the Mosher Award, Santa Clara Valley Section American Chemical Society, P.O. Box 395, Palo Alto, California 94302. For further information, please contact Chair Jamil Talhouk at jtalhouk@enzymesys.com.

school science teachers' programs. So participate, get some exercise, meet other chemists, and contribute to a good cause. Contact Ean Warren at ewarren@scvacs.org or (650) 329-4554. We should have an organizational meeting in mid-April to talk about how we want to participate as a group. Even though the YCC is organizing this event, you do not need to be a younger chemist to participate.



Illustrating Nature

Did you ever wonder who creates the intricate and instructional drawings found in magazines like National Geographic or Scientific American? Some of the artists responsible for those illustrations are trained in Santa Cruz at UCSC's Scientific Illustration graduate program.

This year's exhibition features more than 60 elegant works depicting everything from microbes to mammals in watercolor, acrylic, pen and ink, colored pencil, graphite, and scratchboard. Illustrating Nature will be on exhibit May 5 through June 10 at the Santa Cruz City Museum of Natural History, 1305 East Cliff Drive, Santa Cruz. Museum hours are Tuesday through Friday, 10 a.m. to 5 p.m. In addition, the Museum of Natural History will host a "how-to" demonstration on May 19, between 10:00 a.m. and noon. You'll have a chance to meet these talented artists and learn first hand how they make their magic. The opening reception will be Friday, May 4 at 7:30 p.m. For more information call (831) 420-6115.

Illustrating Nature is co-sponsored by the Santa Cruz City Museum of Natural History, the Santa Cruz Museum Association, the Science Communication Program, University of California, Santa Cruz, and the American Chemical Society.

Contact Persons: Jenifer Lienau, Museum Curator (831) 420-6118
Ann Caudle, Science Illustration Program Coordinator (831) 459-4356

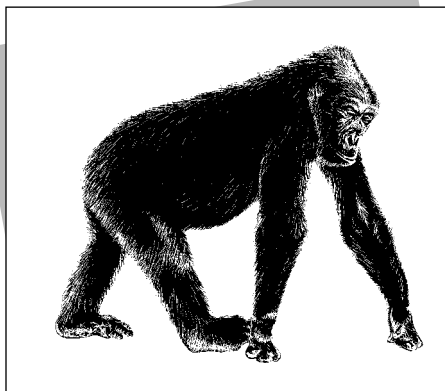


Illustration © 2000 by Jodi Wales

The American Chemical Society All the Elements for Success!

The ACS 125th Anniversary Honorary Committee and President Attila E. Pavlath are pleased to announce the winner of the slogan contest held in December 2000: "The American Chemical Society: All the Elements for Success!"

Steven J. Cooke contributed the winning slogan. For his contribution, Mr. Cooke will attend the ACS National Meeting in San Diego, California, April 1-5, 2001, as a guest of ACS President Attila E. Pavlath.

For more information: ACS 125th Anniversary, Room O-1009, 1155 16th St. NW, Washington, DC 20036 Phone: (800) 227-5558 Ext. 6070; fax: (202) 872-6338; e-mail: 125@acs.org.

Electronic Newsletter Notices

We have created an list server to notify our members when we place a new issue of the Silicon Valley Chemist newsletter on our web site. By joining this list you will receive notices about the newsletter in the form of an email with a couple of lines of text. You will not receive the newsletter, just a link to its location on our web site. Your email address will not be passed on to any other organization. To join, send an email to scvacs-newsletter-request@lists.best.com with "subscribe [email address]" in the body. That is, the word "subscribe" and your email address. You will receive a confirmation email which you must respond to. If you have any problems or questions, contact Ean Warren at (650) 329-4554 or ewarren@scvacs.org or visit <http://www.best.com/faq/bestserv/bestserv1.html>.

Science and the Congress

The American Chemical Society (ACS) is devoted to encouraging the enhancement of science and technology. Since 1995, the Society has operated congressional education programs to highlight the importance of science and technology to our national goals and to foster a better understanding of scientific issues. The Project's main program is a series of briefings covering science and environmental issues for members of Congress, their staffs, and others who are interested in science policy. The Project also publishes *The Risk Advisory*, a newsletter that provides current information on risk-related issues, such as risk management and risk assessment, to a largely non-technical audience. Additionally, in 1998 the Project began to publish a series of fact sheets, *Science in Focus*. Five have been published so far: Endocrine Disruptors, Chemical Weapons, Weighing Threats to Life and Health, Food Safety, and Evaluating Chemical Safety.

For more information, please visit www.acs.org/government/scproject/scpabout.html, call (202) 872-8725, or write to science_congress@acs.org.



Career Services Publishes Newsletter

ACS Department of Career Services has published in January 2001 "The Employer Speaks," a Professional & Workforce News newsletter that provides tips on the current job market for chemists. Brian Fowler, an executive with Elite Search, Inc., a Georgia-based recruiting firm, states in the publication that the job market for Ph.D.s is better today than in years. He also said salary offers for inexperienced BS chemistry graduates have increased to a level unprecedented in 20 years. For more information about the publication or other ACS Career Services products:

Phone: (800) 227-5558
email: careers@acs.org

WonderNet: An Educational Resource

The hands-on science activities in WonderNet are adapted from The Best of WonderScience, Volumes 1 and 2, the hands-on elementary school physical science activity books for teachers and students published by the Education Division of the American Chemical Society.

For a free sample of activities from The Best of WonderScience and ordering information, please visit <http://www.acs.org/wondernet/bestof/bestof.html>

Doing WonderNet activities with your children can be a fun and valuable at-home learning experience and can also compliment your child's science education in school.

The National Science Education (NSE) Standards encourage students to do science, not just to read or hear about it. Since science is a process, not just a collection of facts, students should be encouraged to do what scientists do: make predictions, design and modify experiments, make observations, and draw reasonable conclusions. WonderNet activities give students opportunities to engage in these processes.

This month's WonderNet activity is shown below.

Fun with Chemistry - Food Science

The three main nutrients in the food we eat are Fats, Carbohydrates, and Proteins. Vitamins and minerals are also important, but this WonderNet will focus on the three biggies - fats, carbohydrates, and proteins. With this food for thought, let's dig in!

The following activities are detailed on WonderNet at:

<http://www.acs.org/wondernet/>

Facts on Fat: Experiment to learn the different stats for different fats!

Proteins: Your Pro Team: Experience the strength and flexibility of nature's muscle maker!

Starch Search: If you're looking for starch, here's how to find it!

ACS Green Chemistry Program

Green chemistry is the design of chemical products and processes that reduce or eliminate the use and generation of hazardous substances. Green chemistry is environmentally benign, linking the design of chemical products and processes with their impacts on human health and the environment.

For more information see:

www.acs.org/education/greenchem/



High School Science Teaching Resources

The ACS offers a catalog of science teaching resources for science teachers at all levels. A few items of particular interest to high school teachers are listed at <http://www.acs.org/education/curriculum/teachres.html>.

The ACS catalog of science teaching resources includes a number of books, videotapes, CD-ROMs, and other products.

For a free catalog, email oss@acs.org. You may also go directly to the ACS Online Store <http://store.acs.org:1138> to order the items listed in the catalog. For questions about other ACS education products or services, e-mail education@acs.org. For information about exams, please contact the ACS DivCHED Exams Institute <http://tigerched.clemson.edu/exams/examinfo.html>.



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APRIL 2001 NEWSLETTER TOPICS:

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CHEMPLOYMENT ABSTRACTS

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Past-Chair	Ean Warren	650-329-4554

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2000-02	Maureen Scharberg	408-924-4966
2000-02	John F. Riley	650-328-4036
2000-02	Ean Warren	650-329-4554
2001-03	Linda Brunauer	408-554-6947
2001-03	Bonnie Charpentier	650-354-2344
2001-03	Sally Peters	650-812-4994

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1999-01	Jon Touster	650-723-4340
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2000-02	Donna Drogos	408-265-2600
2000-02	Lance Wong	650-829-1148
2001-03	George Lechner	408-226-7262
2001-03	Howard Peters	650-324-1677

Newsletter Editor

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FUTURE MEETINGS

Apr 1-5	National ACS Meeting
Apr 4	Luncheon Commemorating the 100th Anniversary of the California Section
Apr 11	Executive Committee
Apr 19	SJSU Dinner Meeting University Club
Apr 21	Chemistry Olympiad National Test
May 4 - Jun 19	Illustrating Nature Exhibit Santa Cruz
May 6-10	Intel ISEF
May 24	Nanotechnology <i>Dr. Ralph Merke</i>
Jul 21	Annual Wine Tasting and Award
Aug 26-30	National ACS Meeting Chicago, IL

CHEMPLOYMENT ABSTRACTS

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