



ACS Newsletter

The Newsletter of the Southern Arizona
Section of the American Chemical Society

Fall 2005



Section Officers and Committee Chairpersons

Chair:

David A. Katz
Dakatz45@msn.com

Chair Elect:

Roger Caldwell
Roger.caldwell@cox.net

Immediate Past Chair:

Dr. Cornelius Steelink
steelink@u.arizona.edu

Secretary:

Seth Ruskin
sethruskin2000@yahoo.com

Treasurer:

Dr. Derek Redmore
derekrdmr@aol.com

Councilor:

Patricia A. Schumann
pschumann@imarx.com

Education Committee Chair:

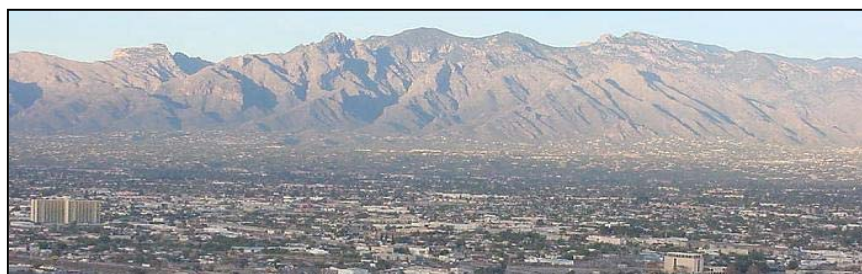
Steve Brown
sbrown@u.arizona.edu

Women's Chemistry Group Chair:

Dr. Rachel LaBell
rlabell@imarx.com

Newsletter:

Dr. Tom Selegue
Thomas.Selegue@pima.edu



Rocky Mountain Regional Meeting Tucson, AZ October 14-18, 2006

The planning committees for the 2006 Rocky Mountain Regional Meeting of the ACS invite you to visit our website at www.rmacs2006.arizona.edu, your best source for up to the minute updates regarding the meeting. All pertinent meeting information, including sponsorship and exhibition opportunities and forms can be found by navigating our easy to follow, up-to-date site. If interested, you may register at the site to receive all of the latest news via email.

As the host for the meeting the Southern Arizona Local Section is working hard to make sure that the meeting is a success. We are pleased to announce that Prof. Harry Gray, Prof. Craig Hawker, Prof. Jeanne Pemberton and Dr. Jim Wells have all agree to speak in our opening session making it a truly star studded event. We are very happy to have these distinguished scientists contributing to our meeting, and helped to set the tone for "Chemistry at the Borders".

Hosting a meeting such as this is a great deal of fun and even more work. We would like to continue our search for volunteers from the local section and from the Rocky Mountain Region as well. If you would like to assist in any way with organizing the meeting, please send an email to rmacs2006@chem.arizona.edu. And finally, please remember that this meeting is our (the Southern Arizona Local Section) chance to shine, so let's make each other proud!

Call for Nominees for the Rocky Mountain Regional Meeting Awards

We are requesting nominees for four awards to be presented during the Rocky Mountain Regional Meeting that will be held in Tucson, AZ, October 14-18, 2006. The awards include:

ACS Regional Industrial Innovation Award
Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences
Regional Award for Excellence in High School Teaching
College Educator Award for Excellence in Teaching

Please contact Kathryn Louie, Ph.D. by email: klouie@email.arizona.edu or by phone: 626-2044 or 626-8695 for further details.

Call for Papers

The 19th Biennial
Conference
On Chemical Education
July 30-August 3, 2006

Symposium Title: Women in Chemistry Education

The purpose of this broad symposium is to feature women currently involved in chemistry education, either as researchers, instructors, or mentors. Papers could be on the accomplishments of the author herself, the accomplishment of another notable woman, or on research or attitudes on how women learn science, and even on the climate or number of women in chemistry academia. We won't limit it to just these, as there may be other personal/professional themes that authors may wish to speak about. Open submission of abstracts.



SUBMIT ABSTRACTS TO

Janet R. Clark, Ph.D.
Dept. of Sciences & Mathematics
Saint Mary-of-the-Woods College
Saint Mary-of-the-Woods, IN 47876
812-535-5295
jlark@smwc.edu

Jodye I. Selco, Ph.D.
CEEMaST
Cal Poly Pomona
3801 W. Temple Ave.
Pomona, CA 91768
(909) 869-4552
jiselco@csupomona.edu

Deadline for submission: February 1, 2006



The Southern Arizona Section of the ACS would like to extend our sincere appreciation to Dick and Suzanne Boyden for graciously hosting the annual reception and cocktail party on December 2, 2005. A thank you also goes out to Feast, 4122 E. Speedway Blvd., for catering the event.



Powerful Substance Search Enhancements Launched by SciFinder

Building upon a decade of innovation, the new SciFinder 2006 advances SciFinder's reputation as an essential information tool and "part of the process" of chemical and pharmaceutical research. For the first time, scientists exploring the CAS Registry of 26 million organic and inorganic chemical substances can retrieve "similar substances" to foster new ideas and directions in drug discovery and other fields of scientific inquiry. "Similarity Searching" is only one of several new features adding new power and depth to SciFinder this year. CAS launched SciFinder 2006 and SciFinder Scholar 2006 at the ACS National Meeting in Washington, D.C. in August.



In honor of SciFinder's tenth year, Nobel Laureate, Dr. K. Barry Sharpless, W. M. Keck Professor of Chemistry at the Scripps Research Institute, shared his reflections regarding the significance of this research tool:

"We were using SciFinder at Scripps even before SciFinder Scholar was invented," said Dr. Sharpless. "I am a big user and don't see how any researcher could hope to excel without daily, round-the-clock access. In the old days, you could be forgiven for not knowing about a certain paper, but now there is no excuse. The speed and scope of its search power is amazing, and the answer to 'what aspect is most helpful for you?' could be as diverse as the users. In my case, SciFinder enhances my reactivity insights, making it easier to 'see' those ill-defined boundaries where important new phenomena are lurking."

New features of SciFinder 2006 include a number of enhancements for substance information, as well as ease-of-use improvements:

- Similarity Searching – as a complement to SciFinder substructure searching, similarity searching permits new options for identifying substances of interest via precise statistical analysis using the Tanimoto algorithm;
- Structure Query Tools – to identify substances more precisely, new tools permit drawing a variable attachment point and a repeating group;
- Reaction Searching – finding reaction information has been enriched with new content and features; these include reaction conditions and identifying intermediate reactions in a multi-step reaction. Scientists also can click any substance in the reaction display to find additional information, including retro-synthetic pathways;
- Navigation & Usability – improvements include duplicate detection and removal for more efficient combined searching of the CAPLUSSM and MEDLINE[®] databases. A new Locate feature permits quick access to journal and patent documents by entering journal titles, author names and other partial bibliographic information.

While announcing the release of SciFinder 2006 for Windows, CAS revealed that a native MAC OS X version of SciFinder will appear in fourth quarter 2005.

SciFinder was created in 1995 with the vision of providing scientists easy, point-and-click access to chemical information. The new intelligent research tool – a client-server product for the desktop – was an immediate hit with chemists, assisting them and other researchers worldwide with access to the multidisciplinary CAS databases.

More information about SciFinder 2006 can be found on the web at

<http://www.cas.org/SCIFINDER/scicover2.html>.

Local Sections and Divisions Team Up With Undergrads

Regional meetings are the ideal place for undergraduates to be introduced to ACS meetings, and to test their skills by planning and organizing a meeting program of their own. But partnerships with Divisions and Local Sections add an additional dimension of learning and fun.

ACS Student Affiliate chapters have the opportunity to host an undergraduate program at local regional meetings, and chosen chapters can receive a grant from the ACS Academic Programs office to fund and plan their events. Each year, invitations go out to active Student Affiliate chapters that are local to the spring and fall regional meetings. These chapters are invited to propose a program and apply for the grant. Students programs are designed to be national meetings in miniature, complete with three educational components and social activities for students to meet other chemistry students in the region and network with their peers.

Every year successful undergraduate programs are held at regional meetings, but the programs that really shine are invariably programs planned with connections to ACS members. When members and students join forces, undergraduate programs can offer a wider range of educational activities with the help of local professionals, and members and students can plan events designed to foster connections between ACS members and the next generation of chemists.

A primary goal of the grant is for students to learn from planning and organizing their own program, but looking together for opportunities to interface members and students gives unmatched networking and career experience.

To get involved with the undergraduate program at your regional meeting, encourage Student Affiliate chapters to apply for the program grant, or contact the meeting's program chair and volunteer to be involved in the undergraduate program. Proposal deadlines are June 30th for the spring regional meetings, and October 29th for the fall meetings.

Use Regional Meetings as a chance to encourage and get to know the next generation of your colleagues.

Scenes from the Local Section Meeting

September 22, 2005

Tucson Botanical Gardens



National Chemistry Week by Marisa Burgener



Toys, we all played with them when we were little, and most of us probably haven't stopped yet! This year's National Chemistry Week theme, "The Joy of Toys" gave us all a chance to have some fun with toys old and new. It also let us reflect upon the role that chemistry plays in toys, their development, production, and their safety. Many also took the opportunity to note the valuable role that toys play in sparking imagination and fueling the creativity and innovation of us all. From schools to state fairs to museums, football fields and even the U.S. Congress, people everywhere were celebrating the chemistry of toys.

U.S. Representative Rush Holt presented a resolution to the House of Representatives supporting the goals and ideals of National Chemistry Week. In his resolution, he stated, "What better ways to inspire and educate the potential chemists and engineers of tomorrow but through the loved experiences of playing with toys and learning what has made all the fun possible?" He went on to say, "the celebration of chemistry, a science which is the backbone to the health of many industries including pharmaceuticals, electronics, automotive, and aerospace, through the chemistry of toys is worthy of our wholehearted support."

Our own ACS President, Bill Carroll, took off on October 14th for his "Extreme NCW Tour". Bill managed to visit 15 cities in 10 days and cover 13,000 miles in his efforts to fulfill his three purposes:

1. To attract media attention and talk about the benefits of chemists and chemistry;
2. To promote our new Chemistry clubs pilot program, and last but not least,
3. To raise stipend funds for Project SEED so that economically disadvantaged students can have a summer laboratory experience.

He survived, and in fact thrived, creating a record of the trip in the form of a blog which, if you haven't read it, is worth a visit. He also tested some additional new venues for informational exchange, including streaming audio and video as well as "podcasts", all of which will be transferred into future technical offerings and services.

NCW Coordinators, the movers and shakers of NCW, are still in the process of submitting photos and information from their various events (see photos from the California Ssection's 2004 events). We know that there were events for schoolchildren, teachers and for whole families and that many of these events received coverage by the local media. One of the many creative activities sent high school students in the Erie area on a web based scavenger hunt. Using information found in suggested websites, the students hunt for the answers to four questions. Awarded locally only, the winner will receive a chemistry T-shirt and a hands-on chemistry program for their school.

More than 186,000 copies of the 12-page "Celebrating Chemistry" publication were distributed, along with more than 6,000 copies of "ChemMatters" magazine for high school students. ACS Publications offered special access to select theme-related journal articles and the Journal of Chemical Education dedicated its October issue to the theme. C&EN covered the Extreme NCW Tour and will feature highlights from local section outreach events in a December issue.

In all, 2005 was a banner year for NCW, highlighted by the smiles on the faces of the people who participated in events around the country. Each year, NCW would not be possible without the tireless efforts of many volunteers. Our hearty thanks go to members of the ACS Committee on Community Activities, who lay the ground-work for each year's theme, our hard-working NCW coordinators, their committee members, the Student Affiliates Chapters that are a part of so many successful events, and all those with jobs, families and other obligations, who find the time each year to give selflessly of their time and energy to make sure that each year's NCW celebration is a resounding success!

We're already gearing up for 2006, where the April 22 Chemists Celebrate Earth Day theme will be "Dig It!", and NCW's theme, October 22-28, will be "Your Home—It's All Built on Chemistry".



Local Section Officer Election Results

Officers for 2006

Chair: Roger Caldwell
Chair Elect: Rachel Anger
Treasurer: Derek Redmore
Secretary: Seth Ruskin

You can e-mail update requests to the ACS Member and Subscriber Services Department at service@acs.org - or telephone them 8:30 - 5:00 pm ET at 800-333-9511

Visit us on the web at

<http://www.sazacs.org/>

Note the new web address! Check back soon for a new and improved local section website!

Rocky Mountain Regional Meeting
Tucson, AZ
October 14-18, 2006
www.rmcs2006.arizona.edu

Conversion Factor of the Month
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Southern Arizona Section
AMERICAN CHEMICAL SOCIETY
The University of Arizona Department of Chemistry
PO Box 210041
Tucson, AZ 85721-0041

