

# SEAC *communications*

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## From the President

It is with mixed emotions that I write this letter, my last as SEAC President, as there have been many ups and downs the last two years and the time has passed all too quickly without having finished finishing nearly all the things I wanted to do. What we have in SEAC, however, is a great group of electrochemists that support the philosophy and science of electrochemistry. We have a great group of donors that have recently contributed an overall large sum of money between corporate and private donors that has helped keep the financial part of the organization solvent, and no where is there a harder group of volunteers than those that serve as officers and committee members in this organization. Most are incredibly busy already and they donate their valuable time to the mission of SEAC.

I extend great appreciation to Jon Howell, Secretary; Johna Leddy, Treasurer; Ingrid Fritsch, Membership Chair; Anna Brajter-Toth, Newsletter Editor, Sam Kounaves, Society Web Master and designer; as well as Joe Maloy, Finance Committee Chair; Werner Kuhr, Awards Committee Chair; Carol Korzeniewski, Nominations Chair, and Craig Lunte, Activities Committee Chair. The Board of Directors and friends that show up year after year, Ted Kuwana, Royce Murray, Mark Wightman, Gary Christian, etc have been wonderful to work with. These people are what makes SEAC run! They are all volunteers, which is even more amazing. On July 1, I step back to be "Past President" and Sue Lunte takes over as President. I am sure she and the team will make SEAC even better and help the mission to promote electroanalytical chemistry. With her will be a new Finance Committee Chair in Steve Creager, a new Awards Committee Chair in Bill Heineman, and a new Activities Committee Chair in Robin McCarley. In addition, Peter Vanesyk and Bill Lacourse have joined the team dealing with the web site and Faye Rubinson will become Managing Editor of the Newsletter with Anna taking over as Editor in Chief. Anna has spent an enormous effort putting together the Newsletters for the last 6 years. I hope all will welcome the new volunteers and that they will in turn put some new energy into the activities of SEAC. I also hope that, if asked – or if not asked, that you the members will help continue the activities of SEAC.

In my last letter I added a call originally sent to the lifetime members for donations through the SEAC donors program and the call has been met with enthusiasm. The following have become donors to SEAC since December.

### Personal Gifts

#### Donors (\$1-149)

Glen Zoski

Johna Leddy (Univ. of Iowa)

Hector Abruna (Cornell Univ.)

#### Bronze Donors (\$150-249)

Antje Baeumner/Richard Durst (Cornell Univ.)

Steven Petrovic (Southern Oregon Univ.)

#### Gold Donors (\$500-749)

Anonymous, in memory of Harry Mark, Mentor, Scientist, and Friend

Dennis Evans (Univ. of Arizona)

Royce Murray/Mirtha Umana-Murray (Univ. of North Carolina)

Rick and Ann McCreery (Univ. of Alberta)

Andrew Ewing (Penn State Univ.)

Bill Lacourse (Univ. Maryland, Baltimore County)

#### Reilley Club Members (\$750 and up)

Bill Heineman (Univ. of Cincinnati)

## Corporate Gifts

### Bronze Donors (\$250-499)

Eco Chemie B.V. (Anna Farrenkopf)

### Silver Donors (\$500-749)

CH Instruments, Inc. (Pei He)

Gamry Instruments (Pete Peterson)

AMETEK, Princeton Applied Research (John Vellenga)

### Gold Donors (\$750-1249)

ESA Biosciences, Inc. (Mike Weber)

Pine Research Instrumentation (Frank Dalton)

### Reilley Club Members (\$1249 and up)

Bioanalytical Systems (Pete Kissinger)

At the board meeting in February we decided to add a category of Order of Michael Faraday for Personal Donations and to make this a cumulative goal. The limit for this is \$2000 total donation. It is important to realize that as a personal donor, once you attained a certain donor level, you will always have that status. It is also important to note that the corporate donors give the level of support quoted every year. Both types of support are tremendously important and the fact that so many are willing to lend this kind of support means we have a healthy organization. One last note is that donations are all tax deductible!

It has been an honor and a privilege to serve SEAC these last two years and in the past as Secretary and Membership Chair. I look forward to the future of SEAC and hope I can be of service again in the future. I have recently moved to Sweden and hope to help bring more interaction between the European electrochemistry community and SEAC. Later in this Newsletter I add some photos from an outing with European friends while at Pittcon.

Passing on the baton to Sue .....

All the Best,  
Andy Ewing

## Pittcon 2007

### *Reilley and Young Investigator Symposia*

It was standing room only at this year's Reilley/Young Investigator Awards Symposium. The program included friends, students and mentors of this year's awardees, George Wilson and Mary Beth Williams.

George, recipient of this year's Charles N Reilley Award, is the Higuchi Distinguished Professor of Chemistry and Pharmaceutical Chemistry at the University Kansas. He has been active over the years in a number of areas within electroanalytical chemistry, ranging from theory to in vivo and in vitro analysis. George currently divides his time between administration and research. He continues to serve on a number of study sections at funding agencies and on advisory boards, and is working to improve professional training for students in chemistry.



Mary Beth, the Young Investigator awardee, also known for her videoconference group meetings, has just been promoted to Associate Professor of Chemistry at The Pennsylvania State University. Mary Beth's research also bridges a number of different areas including artificial oligopeptide manifolds, inorganic enzymes, nanoparticle transport, and nanoparticle applications to motor protein visualization, patterning, and direction.

Mary Beth is proud to report that her students are also receiving awards at a fast clip. Andrew Latham was awarded an ACS DAC graduate fellowship for 2007, Christopher Thode received a NASA Space Grant Fellowship (2007 - 2009), and undergrad Bekah McLaughlin received a Gates Cambridge Fellowship (2007+).



Financial support for the Young Investigator Award is supplied by ESA/Cypress Systems.

#### *Electroanalytical chemists from around the world- the get together*

As usual Pittcon 2007 saw a gathering of electrochemists from around the world. Some of these practitioners of electrochemistry from England, France, Spain, Sweden, and the USA were caught on film in a gathering at one of the fabulous Greek Restaurants in Chicago, the Pegasus.



#### *Pittcon 2008 – When, Where, and How*

Pittcon 2008 will return to New Orleans, taking place March 1 – March 7 in the Ernest N. Morial Convention Center.

**Technical Sessions will take place** Sunday, March 2 through Thursday, March 6. The **Exposition** will run from Monday, March 3 through Thursday March 6. A number of **Short Courses** will be offered throughout the week.

**Important Date: The abstract submission deadline Wednesday, August 1, 2007.**

More information on Pittcon and the Call for Abstracts is available at the Pittcon site:

<http://www.pittcon.org/index.html>

### ***Congratulations to the SEAC Awards winners for 2008!!***

In late breaking news--The Reilley awardee for 2008 is Hector (Tito) Abruza, and the Young Investigator Awardee is Shelley Minter. For more details on each of the awardees and on the Symposium honoring them check the next issue of the Newsletter.

### **More news on the international front from Gary Christian, University of Washington**

As part of a program to increase opportunities for collaboration and for student training between Thailand and the US, a conference was held this past winter in Chiang Mai, Thailand, funded by the National Science Foundation and, from Thailand, the Commission on Higher Education (CHE) the Thailand Research Fund (TRF), the Post Graduate Education and Research Program in Chemistry (PERCH) and Chiang Mai University. Talks were presented by twenty scientists from the US and about seventy from Thailand. The meeting presentations focused on areas of research identified by the Thai government as ones they hope to strengthen over the coming years, which include nanoscience and nanoanalysis, neuroscience and bioanalytical science, infometrics, and environmental science and analysis. Eleven analytical scientists were chosen to participate, including electroanalytical chemists Joseph Wang, Arizona State University (Nanoparticle based bioelectronic detection of DNA and proteins); Eric Bakker, Purdue University (New directions in ion-selective electrodes: from non-equilibrium potentiometry to pulstrodes); Jeanne Pemberton, University of Arizona (The characterization of solid-liquid interfaces using emersion vibrational spectroscopy); as well as three graduate students who presented posters. Gary Christian was involved in organizing the conference. Pictured below are some of SEAC's finest during breaks from the scientific meetings.



### **And the winner is...**

And let us not forget....an award from Fall, 2006, which slipped through without us noting it. Our very own soon-to-be Past President, Andy Ewing, received the 2006 Award in Chemical Instrumentation Sponsored by the Dow Chemical Foundation.

In other awards news, **Anne Fischer** was recently awarded a 2007-2008 AAAS Science & Technology Policy Fellowship and will begin a one-year tenure at the National Science Foundation this September. Dr. Fischer obtained her Ph.D. under the direction of Greg Swain at Michigan State University and is currently an NRC Postdoctoral Research Associate at the U.S. Naval Research Laboratory in Washington, D.C. working with Jeff Long. While at NSF Anne will be working in the Education and Human Resources Directorate, Office of Human Resource Development with ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers as well as with the Historically Black Colleges and Universities Undergraduate Program.

And, SEAC members **Jeffrey Long** and **Debra Rolison** of the Naval Research Laboratory recently received the R.A. Glenn Award from the ACS Division of Fuel Chemistry for the paper, "Integrating the Multifunction Necessary for 3-D Batteries into Mesoporous Nanoarchitectures." The paper was presented at the Spring 2006 ACS National Meeting in Atlanta, GA and the R. A. Glenn Award recognizes the outstanding paper at Division Symposia. Selection is based on the oral presentation, the technical subject matter, and the quality of the preprint. Co-authors on this paper were Justin Lytle, Katherine Pettigrew, Chris Rhodes, and Rhonda Stroud.

## Upcoming meetings

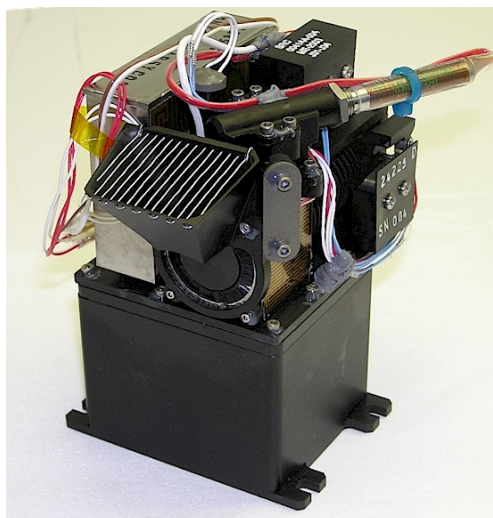
- Electrochemical Measurements Workshop (Ernest B. Yeager Center for Electrochemical Sciences, Case Western Reserve U. Cleveland, OH, August 20-24, 2007), <http://yces.case.edu/measurements07.html>
- Electrochemistry and Self-Assembly for Nanomaterials Science (Namur, Belgium, August 29-30, 2007), <http://webapps.fundp.ac.be/chimie/electrochimie/>
- 58th Meeting of the International Society of Electrochemistry (Banff, Canada, September 9-14, 2007), <http://event07.ise-online.org/>
- 212th Meeting of the Electrochemical Society (Washington, DC, October 7-12, 2007), <http://www.electrochem.org/meetings/biannual/212/212.htm>
- International Symposium on ElectroChemical Machining Technology (INSECT 2007) (Fraunhofer IWU Chemnitz, Germany, October 25-26, 2007), <http://www.iwu.fraunhofer.de/INSECT2007/index.htm>
- "New Frontiers in Electrochemistry" symposium: 2007 Southwest Regional Meeting of the ACS in Lubbock, TX, Nov. 4-7, 2007. Organized by Cindy Zoski, New Mexico State University. Speakers include Allen J. Bard (University of Texas, Austin), Showei Chen (University at California at Santa Cruz), Dennis Evans (University of Arizona), Andrew Gerwith (University of Illinois at Urbana), Cynthia Zoski (New Mexico State University).
- 6th Spring Meeting of the International Society of Electrochemistry (Foz do Iguaçu, Brazil, March 17-19, 2008), <http://spring08.ise-online.org/>
- 213th Meeting of the Electrochemical Society (Phoenix, Arizona, May 18-23, 2008), <http://www.electrochem.org/meetings/biannual/213/213.htm>
- Electrocatalysis - Theory and Experiment at the Interface, Faraday Discussion 140 (U. of Southampton, Southampton, UK, July 7-9, 2008), <http://www.rsc.org/ConferencesAndEvents/RSCConferences/FD140/index.asp>
- 59th Meeting of the International Society of Electrochemistry (Seville, Spain, September 7-12, 2008), <http://event08.ise-online.org/>

*Gordon Conferences:* <http://www.grc.org>

- Electrochemistry: Electrochemistry for a Cleaner Environment and a Sustainable Energy Future (Ventura, CA, January 6-11, 2008)
- Bioelectrochemistry (U. of New England, Biddeford, ME, July 20-25, 2008)
- Fuel Cells (Bryant U. Smithfield, RI, July 20-25, 2008)
- Electrodeposition (Colby-Sawyer College, New London, NH, July 27 - August 1, 2008)
- Electron Donor Acceptor Interactions (Salve Regina U. Newport, RI, August 3-8, 2008)

## Electroanalytical chemistry in space this summer

If all goes as planned, at 5:30am on August 3rd, the 2007 Phoenix Mars Lander mission will be launched from the NASA Kennedy Space Center, Pad 17A, in Cape Canaveral, Florida. On board Phoenix will be the first electroanalytical instruments for experiments to be carried out on another planet. Anxiously watching will be our very own Sam Kounaves and his students and research associates who were involved in building parts of the instrumentation. Sam is the Co-PI for the mission and the lead for the electroanalytical experiments.



(photos courtesy of NASA/JPL/Sam Kounaves)

The Phoenix Lander contains four identical "wet chemistry labs" (WCL) which include an array of electrochemical devices, 12 ion-selective electrodes for inorganic cations and anions, 3 pH sensors, and electrodes for cyclic voltammetry, anodic stripping voltammetry for heavy metals, chronopotentiometry for halides, and devices for conductivity, and redox potential measurements.

Once safely on the Martian surface and after a few days of set up, water and a calibrant solution will be added to one of the WCL cells, and a robotic arm will then deliver a scoop of Martian soil from the surface. Later Martian soil from three depths down to potentially a meter will be sampled and electroanalysis will be on its way to help understand the chemistry of the Martian soil and its potential for supporting life. If you are in the vicinity and awake, drop by and watch electroanalytical history being made. More about the Phoenix mission can be found at: <http://planetary.chem.tufts.edu/research.html>

## 2007 Membership Update

### Started Lifetime installment payments

Lane Baker, Indiana University  
Rick Van Duyne, Northwestern Univ.

### New Student Members

Subbiah Alwarappan, University of Iowa  
Paul Boswell, University of Minnesota  
Ekta Goel, Mississippi State University  
Loryn Keating, University of Maryland

### New Lifetime Member

Mark Meyerhoff, Univ. of Michigan

Jelena Petrovic, Univ. of North Carolina  
Natalie Rios, Univ. of North Carolina  
Melinda Wilson, University of Maryland

**New Regular members**

Frank Dalton, Pine Instruments  
Michael Johnson, University of Kansas  
Arlen Kaufman, University of Evansville

Robin McCarley, Louisiana State Univ.  
Modupe Ogunlesi, Univ. Nigeria  
Ben Xue, Univ. of Tennessee – Knoxville

**Lifetime members missing from the list in the last Newsletter**

Thank you for checking the lists and politely correcting our mistakes. The following are the lifetime members we missed.

Xiangqun Chen  
Hubert Girault, Ecole Polytechnique Federale de Lausanne  
Susan Harmon  
Bruce Henne  
Jeff Long, Naval Research Labs

Andrew Palus  
Mi Wang  
John Westall, Oregon State University  
David Wipf, Mississippi State University  
Edward Zachowski

**Missing contact information for the following Lifetime members**

We have lost contact with these lifetime members. If you have contact information for any of the following members, please forward it to Jon Howell [jhowell\(at\)bioanalytical.com](mailto:jhowell(at)bioanalytical.com).

Victoria Alvarado  
Hsiang-Pin Chang  
Xiangqun Chen  
Benjamin Duhart  
Daniel Gagescu  
Raymond Gajan

Susan Harmon  
Bruce Henne  
Tokuji Ikeda  
Solomon Levine  
Andrew Palus  
Noboru Oyama

Steve Ragsdale  
Juerg Reust  
Marc Rothstein  
Andrew Slaterbeck  
Mi Wang  
Edward Zachowski

**OUR NEXT ISSUE IS SLATED FOR NOVEMBER, 2007. PLEASE SEND US YOUR NEWS, JOB OPENINGS, ADDRESS CHANGES, AND MISCELLANEOUS ANNOUNCEMENTS FOR POSTING.** (email: [jfr\(at\)georgetown.edu](mailto:jfr(at)georgetown.edu))