

SEAC *communications*

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Letter from the President—

The C.N. Reilley and SEAC Young Investigator symposium at PITTCON 2008 was excellent with lots of lively discussion. Robin McCarley organized a fantastic reception and dinner at the Bacco restaurant and a good time was had by all (as evidence by the pictures included in this newsletter. We were joined by most of our Student Travel Grant recipients, who hailed from Miami University, University of North Carolina, University of Connecticut, Vanderbilt, and St. Louis University. These students all gave excellent presentations at Pittcon, many participating in a special contributed session on “small” electrochemistry organized by Steve Weber.

The 2009 C.N. Reilley Award winner is Charles Martin of the University of Florida. When I told Chuck he had received the award, he was extremely honored to have been named as the recipient and commented that he has read most of Reilley’s papers and that he was “a really really smart guy.” Henry White is organizing this year’s symposium, and it promises to be as interesting and exciting as the one last year. Unfortunately we did not have a candidate for the Young Investigator Award this year, as the nominees had all exceeded the “less than seven years out” requirement. Therefore, I ask all of you **please think about young faculty or research scientists at your institution who would be candidates for the award** and nominate them by March of this year. I know there are some good young electrochemists out there!!

As we move through the summer, I would also like everyone to think about individuals who would make good members of the Board of Directors of SEAC. If you are willing to run or know someone who would be a good candidate, please let us know. You can contact me at slunte@ku.edu. We can also always use members who want to be involved on committees but would rather not run for office. Please continue to send your electrochemical news to Faye Rubinson for inclusion in the SEAC newsletter. Faye and Anna Brajter-Toth have been working very hard on putting a quality newsletter out on a regular basis. As the current president of SEAC, I sincerely appreciate their effort in this regard.

I hope everyone has a healthy and productive summer and all the electrons flow in the right direction. ---- Sue Lunte

REILLEY AWARD WINNER FOR 2009 ANNOUNCED



The 2009 Reilley awardee will be Professor Charles R. Martin, the Colonel Allan R. and Margaret G. Crow Professor in Chemistry at the University of Florida. Professor Martin has been a valued member of the electrochemistry

community for many years and has garnered a number of awards along the way, including the Carl Wagner Memorial Award of the

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Deadline for next issue – August 15

Electrochemical Society. He is a Fellow of the Electrochemical Society and served as a University of Florida Research Foundation Professor from 2005-2007. Professor Martin's research interests are in the areas of Materials and Analytical Chemistry with special emphasis on nanomaterials and the bio/nano interface. His research group pioneered the template method for preparing nanomaterials and have applied the method to the preparation of nanotubes and nanotube membranes in biosensors and separations. In addition, Professor Martin's group is investigating electrochemistry at nanoscopic electrodes in electrochemical energy storage and production. Professor Martin will be featured in our August/September issue of the Newsletter.

AWARD NOMINATIONS

The **Charles N. Reilley Award in Electroanalytical Chemistry** is given in memory of one of the most distinguished analytical chemists of the 20th century. Reilley's interests were both fundamental and broad; he made seminal contributions not only to electroanalysis, but also optical spectroscopy, NMR, chromatography, data analysis, instrumentation, and surface analysis. Instructions for nominations and a link to a biography of C.N. Reilley by Royce Murray are available at www.electroanalytical.org/awards.htm **Nominations for the 2010 Reilley award are due by March 1, 2009.**

For the **SEAC Young Investigator Award**, sponsored by [Cypress Systems](#), nominees must be within seven years of obtaining their Ph.D. or other terminal degree at the time of nomination. Candidates may be nominated by any member of SEAC. Nominations should include a letter describing the individual's promise in the area of electroanalytical chemistry, at least one seconding letter of support, and a curriculum vitae for the individual. Candidates for the YI Award must be renominated each year during their period of eligibility. **Nominations for the 2010 YI award are due by March 1, 2009.**

Please also keep in mind **Student Travel Grants** are presented to students who will be giving oral presentations at Pittcon. The SEAC Graduate Student Travel Grants are sponsored by [Eco Chemie](#), [Princeton Applied Research](#), [CH Instruments](#), [Gamry Instruments](#), and [Nova Biomedical](#). More information about the grants and the nomination process can be found on the SEAC website www.electroanalytical.org/awards.html **Nominations for travel grants are due to the SEAC awards committee chair January 15, 2009.**

PITTCON 2008-A GOOD TIME WAS HAD BY ALL

Pittcon 2008 saw almost 20,000 attendees, the highest figure of the last three years. SEAC was front and center with a contributed symposium, a poster session and a reception and dinner honoring the Reilley and Young Investigator awardees (sponsored by [BAS](#) and [Cypress Systems](#), respectively). Festivities began with a reception and banquet organized by Robin McCarley at Bacco's in the French Quarter and continued the next day with the Awards Symposium featuring talks by the award winners, Tito Abruna and Shelley Minter.



Christian presents the SEAC awards to Hector (upper left) and Shelley (upper right). At left, the symposium participants (left to right) Daniel T. Chiu, Greg Swain, Andy Ewing, Steve Weber, Mark Wightman, and Bob Ensmann.

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However, it wasn't all work. Christian kept the spirit of celebration alive. The reception and banquet provided a chance for friends to catch up and new friends to be made.

SEAC AWARDS BANQUET



Above left: Reilly Awardee Tito Abruña with Mirtha Umana. **Above right:** Young Investigator Awardee Shelley Minter (in center) with Kathryn Ayers and a bevy of SEACers.



Above left: Mike Schoenfisch, George Wilson, John Howell, Andy Ewing and Royce Murray hold forth on the joys of Italian food in New Orleans. Johna Leddy can be seen standing in the background. **Above right:** Rick McCreery, Royce Murray, Mirtha Umana, and Mike Schoenfisch.



Left: Long time SEACers Tom Ridgway and Pete Kissinger (Reilley PhD's, both). **Right:** Susan Lunte and some of our Student Travel Grant Awardees.



Left: Robin McCarley gets a thank you from Ingrid. **Right:** Joe and Marlene Maloy in a quiet moment.



And several other familiar faces, including Mike Weber (both upper left and lower right), Michel Prudent with Ingrid Frisch (upper right), some of our younger members (lower left), Bob DeLevie (lower center), and Mike Weber with Bob and Judy Ensman (lower right).



Five students were awarded travel grants to present their work at PITTCON 2008. They were:
Sachin Kumar (Miami University, Shouzhong Zou)
Jelena Petrovic (UNC, Mark Wightman)
Sadagopan Krishnan, U. Conn, Jim Rusling)
Rachel Snider (Vanderbilt, David Cliffl)
Laura Mecker (St. Louis University, Scott Martin)

These awards are sponsored by [Eco Chemie](#), [Princeton Applied Research](#), [CH Instruments](#), [Gamry Instruments](#), and [Nova Biomedical](#)

SPEAKING OF PITTCON 2009.....

It is not too soon to start getting your abstracts ready for next year's meeting, March 8-13 in Chicago, IL.

Call for papers opens:

June 1

Short Course Proposals submission deadline July 11

ABSTRACT DEADLINE:

August 15

PHOENIX HAS LANDED!!!!

As most of you are aware, the Mars Lander Phoenix successfully executed its soft landing on the surface of Mars. SEAC member **Sam Kounaves and his research group** are now at the Science Operations Center at the University of Arizona in Tucson AZ, running experiments until the end of August and “living on Mars time.” At this time, there are four electrochemical cells on Mars (including ion selective electrodes and electrodes for cyclic voltammetry, chronopotentiometry, anodic stripping voltammetry, and electrical conductivity). In the coming weeks they are planning the first electroanalysis of the soil (and maybe ice) on another planet. Updates on breaking news will appear in the newsletter as results are acquired and data analyzed. Images and info about the mission are available via the links at Sam’s web site at:

<http://planetary.chem.tufts.edu/Phoenix/index.html>

SEAC MEMBER IN THE NEWS

An interview with **Larry Faulkner** was recently featured in *Science* regarding a report on the examination of thousands of studies which looked at math preparation of students in K-8 as they head into algebra, the “gateway” course for further math study and preparation for success not only there but in the workplace. Larry headed the National Mathematics Advisory Panel’s investigation which culminated in the report. The text of the interview and a summary of the report’s findings can be found in *Science*, **319** (2008), 160, and *Science*, **318** (2007), 1534, respectively. Larry is the former president of the University of Texas-Austin and currently serves as president of the Houston Endowment, a philanthropic entity in Texas.

AWARDS AND KUDOS FOR A SEAC MEMBER

Mark Richter, now a full professor at Missouri State University, was recently selected as a 2007 U.S. Professor of the Year by the Carnegie Foundation for the Advancement of Teaching. The award recognizes outstanding teaching and the commitment of professors to undergraduate teaching. He is also a Young Endowed Professor in the Honors College. (Mark writes that, unfortunately, the title doesn’t refer to age).

GOINGS AND COMINGS

Bruce Parkinson would like to include an announcement in the SEAC newsletter that he will be joining the Department of Chemistry and the School of Energy Resources at the University of Wyoming starting in Sept 2008. He says his biggest regret about the move is that he will not be a colleague of **Dan Buttry** since Dan recently joined the Chemistry Department at Arizona State University.

Mario Alpuche-Aviles moved from the University of Texas to The Ohio State University in September.

Alice Harper wrote that she would like to have her move from Concordia College to Berry College put in the newsletter. She is an Assistant Professor in the Chemistry Department, having started there in August 2007.

New contact information for **Andrew Palus** (a Lifetime member) is GP Instruments, PO Box 2679, Trenton, NJ 08690, and his email is [APALUS\(at\)GPINSTRUMENTS.COM](mailto:APALUS(at)GPINSTRUMENTS.COM)

Peter Mahon is now on the Faculty of Life & Social Sciences at Swinburne University of Technology in Hawthorn, Australia.

NEW MEMBERS

New Student Members:

Anupama Aggarwal, University of Arkansas
Mandelle Danser, Seton Hall University
Chester Duda, University of Iowa
Chunze Lai, University of Minnesota
Heung Chan Lee, University of Iowa
Garett Lee, University of Iowa
Michel Prudent, Ecole Polytechnique Federale de Lausanne, Switzerland
Yogesh Singh, Pennsylvania State University
Paul Walsh, University of North Carolina

New Regular Members

Stacy DuVall, Roche Diagnostics
Wesley O. Okiei, University of Lagos, Nigeria

New Lifetime Members

Francis Zamborini, University of Louisville

UPCOMING MEETINGS

5th Workshop on Scanning Electrochemical Microscopy (SECM) will be held August 24 - 28, 2008 at the Minnowbrook Conference Center located in the Adirondack Mountains of New York. Info: <http://www.minnowbrook.org/>. email: Michael V. Mirkin ([mmirkin\(at\)qc.cuny.edu](mailto:mmirkin(at)qc.cuny.edu)) or Allen J. Bard ([ajbard\(at\)mail.utexas.edu](mailto:ajbard(at)mail.utexas.edu)).

4th ECHEMS 2008 Meeting "Electrochemistry in Biorelevant Materials and Supramolecular Systems" The preliminary registration form is provided on the website: <http://www.univ-brest.fr/echems08> Should you require any assistance or additional information regarding registration or accommodations for the Conference, please do not hesitate to contact the 4th ECHEMS Meeting Secretariat at [echems08\(at\)univ-brest.fr](mailto:echems08(at)univ-brest.fr). The meeting will be held in the APAS Holidays Village, June 25 - June 28 (Wed-Sat) 2008.

The **2008 Gordon Research Conference on Bioanalytical Sensors** will be held 29 June to 4 July, 2008 at Bryant University in Smithfield, Rhode Island, USA. An exciting program is planned; specific topics include biologic/biomimetic recognition, microfluidics and interfacial design, optical sensing, electrochemical sensing, supporting technologies, real-world applications and in vivo sensing, and young investigators. In addition, a Gordon-Kenan Graduate Research Seminar (GRS) specifically for students and postdocs will be held immediately preceding the main conference (28-29 June 2008) at the same site; substantial financial assistance will be

available for a limited number of students and postdocs attending the GRS. Additional information about the Bioanalytical Sensors Gordon Research Conference can be found at: <http://www.grc.org/programs.aspx?year=2008&program=biosens>. Please note that separate "applications" and registrations are required for both the main conference and the GRS.

For additional information on the main conference, please contact the meeting chair, Chris Taitt, at chris.taitt@nrl.navy.mil. For information on the GRS, please contact André A. Adams (aadam14@lsu.edu) or Hamed Shadpour (shadpour@unc.edu).

A symposium entitled **“The Evolution of Analytical Sciences in the U.S.”** is being organized by our very own Gary Christian for the **ACS meeting in Philadelphia, August 17-21**. The day is not yet determined, but will probably be the morning of Monday, August 18. The symposium will begin with a presentation by Gary giving a brief history of the evolution of analytical sciences from biblical times, and then there will be series of presentations of U.S. developments by luminaries in different areas. David Brock from the Chemical Heritage Foundation will talk about early analytical instruments (e.g., the Beckman Model G pH meter that Gary used as a student!). Peter Carr will talk about the I. M. Kolthoff legacy, followed by a presentation by Chris Enke on the University of Illinois influence. Dick Durst will talk about Electroanalytical Chemistry in the U.S. (and has said he will be challenged to do it in 30 minutes!). Gary Hieftje will talk about Spectroscopy in the U.S., John Dorsey about Chromatography in the U.S., and Ken Busch about Mass Spectrometry in the U.S. It should be a highlight of the Division of Analytical Chemistry sessions.

The 9th Workshop on (Bio)sensors and Bioanalytical Microtechniques in Environmental and Clinical Analysis will be held at Université de Montréal, Montreal, QC, Canada, June 14-17, 2009. If you would like to get more information, please check out the webpage at http://www.umontreal.ca/bbmec_2009 and don't hesitate to contact Antje J. Baeumner (ajb23@cornell.edu), or the two organizers, Kevin Wilkinson (kj.wilkinson@umontreal.ca) and Jean-François Masson (jf.masson@umontreal.ca) at the Université de Montréal.

JOB OPENINGS

Along with Bruce Parkinson's move to **University of Wyoming**, he will have several post doc positions available for electrochemists, photoelectrochemists or surface scientists to join his group.

Until his move, his contact information is:

Professor Bruce Parkinson
Department of Chemistry
Colorado State University
970-491-0504 (office)
970-491-1801 (fax)
i-Phone 970-372-7474/e-mail: Bruce.Parkinson@colostate.edu

A one year, renewable postdoctoral position (supported by NSF) is available in the **Mirkin group at the City University of New York - Queens College**. The successful candidate will be involved in quantitative electrochemical studies of charge-transfer processes at soft nano-interfaces. For a brief summary of current projects and publications see the Mirkin group website

<http://chem.qc.cuny.edu/~mirkinlab/mvm.html>. Please email your application including CV, publication list, and references to mmirkin@qc.cuny.edu.

The **Combustion Chemistry Department at Sandia's Combustion Research Facility** is actively seeking an experimental electrochemist/surface scientist for a regular staff position. This position requires a Ph.D. in chemistry, physics, or a related discipline, and experience with electrochemical devices and measurement techniques. Please see the flyer on the next page for more detailed information, including how to apply for the position.

If you are interested in learning more about the Combustion Research Facility, visit: <http://www.ca.sandia.gov/CRF/> In addition, if you are interested in learning more about Sandia/CA, visit: <http://public.ca.sandia.gov/casite/>

For additional information about this position, please contact:

Mark Linne, Manager
Combustion Chemistry and Laser Diagnostics
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Livermore, CA 94551-0969
Email: m.linne@sandia.gov
Phone: 925-294-3704

ELECTROCHEMIST / SURFACE SCIENTIST

JOB OPENING AT SANDIA

SANDIA NATIONAL LABORATORIES IN LIVERMORE, CALIFORNIA

The Combustion Chemistry Department at Sandia's Combustion Research Facility seeks an experimental electrochemist/surface scientist for a regular staff position. The successful candidate will be part of a team of experimental and theoretical scientists investigating fundamental physics and chemistry relevant to solid-oxide fuel cells and electrolyzers. Of particular interest is the measurement of surface species, binding, and oxidation states in conjunction with more standard electrical measurements. The candidate must possess a sufficient understanding of electrocatalytic materials so that the scientist can lead the development of new electrode materials while performing these studies. The Combustion Research Facility is a U.S. Department of Energy user facility. As a principal investigator in this facility, the successful candidate will be expected to develop and maintain an international scientific reputation in electrochemistry and to form strong, collaborative relationships with scientists inside and outside the facility, including both experimentalists and other theoreticians.

A Ph.D. in chemistry, physics, or a related discipline is required. Experience with electrochemical devices and measurement techniques is required. The candidate must have demonstrated original research in relevant areas of experimental electrochemistry and must possess excellent written- and oral-communication skills.

Experience is desired in solid-oxide electrochemistry, surface-science techniques, and modern x-ray and optical diagnostics. Experience working at a synchrotron light source is also desirable.

Candidate must be able to obtain a U.S. Department of Energy security clearance for this position. To obtain a security clearance, U.S. citizenship is required.

Apply at: <http://public.ca.sandia.gov/casite/careers/>. Click on Browse current job openings, and type the Job ID number **60212** into the Keywords box. Click on the Search button to access this job opening, and complete an online application.

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