

SEAC *communications*

Volume 26, Number 1, February 2010

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FROM THE PRESIDENT

As this is our pre-PITTCON issue of SEAC Communications, I am pleased to congratulate our SEAC Awardees, Richard Crooks and Christy Haynes. This symposium will be the highlight of SEAC activities at PITTCON with the presentation of the 2010 C. N. Reilley Award to Professor Richard Crooks of the University of Texas, Austin, and the Young Investigator Award to Professor Christy Haynes of the University of Minnesota. The Reilley Award Symposium in their honor has been arranged by Professor Allen Bard and will be held from 2:00 to 5:20 p.m. on Monday, March 1, 2010, in Room 300 of the Orange County Convention Center.

Please note that, at our request, the Reilley Award Symposium has been moved from Wednesday to Monday afternoon. This move allows us to have all of the SEAC activities on one day: Board of Directors Meeting, Award Symposium, Annual Meeting, Reception and Award Dinner.

Let me also congratulate the winners of the SEAC elections recently completed. Johna Leddy will serve as the new President-Elect, Jon Howell will continue as Secretary and Petr Vanysek was elected Treasurer. The newly elected members of the Board of Directors are Francis Zamborini, Shigeru Amemiya and Antje Baeumner. Only one vote separated each of the successful candidates – evidence of how important it is to vote, as every vote counts.

And let us not forget our Student Travel Award winners. Their names and a few details are given in an article later in the newsletter.

As many of you know, in December 2008, the UN officially designated 2011 as the International Year of Chemistry (IYC). The stated goals of the International Year of Chemistry are: Increase the public appreciation of chemistry in meeting world needs; Increase interest of young people in chemistry; Generate enthusiasm for the creative future of chemistry; and Celebrate the 100th anniversary of the Mme. Curie Nobel Prize. While I currently don't have any specific plans of what SEAC might do to celebrate this special year, I invite you to write me with your ideas and suggestions of possible activities – possibly for inclusion in the PITTCON 2011 program.

In this issue--

Pittcon 2010

- Electrochemistry Sessions at Pittcon
- Charles N. Reilley and Young Investigator Awards Symposium
- Other SEAC activities at Pittcon

Election results

Employment Opportunities

- University of Florida (Post-doc, Reynolds Lab)
- Gamry Instruments (Marketing Mgr)

Election Results

2010 Electrochemistry Gordon Conference

Meetings to Come

Goings, Comings and Other Changes

During the next break in the action....

In my last President's Message, I wrote about the status of Cold Fusion. In response, I received a note from Gary Christian stating, "Dieter Britz at Aarhus University (Denmark) used to keep a bibliography on cold fusion". Gary also included in his message the URL for a web site which, in turn, contains useful links to a variety of other sites on cold fusion:

<http://www.chem.au.dk/~db/fusion/index.html> Clearly, the final word on this controversial topic is yet to be written.

I look forward to seeing many of you at PITTCON. Please plan to attend the Reilley Award Symposium on Monday afternoon followed by the very brief annual meeting of the Society. I hope you will also join us at the SEAC Reception that evening.

–Dick Durst

PITTCON 2010 – FEBRUARY 28-MARCH 5



After the latest snowstorms here in DC (four snowstorms in 12 days for a total of almost three feet, a near record for us), your humble editor is very much looking forward to being in sunny Orlando! There is a full slate of activities of interest to our members, including our awards symposium, members meeting, reception and banquet. Dates, times, locations and the like are given below. HOPE TO SEE YOU ALL THERE!

Electrochemistry Sessions at PITTCON

Type Session	Time	Title	Room
OC	Sun PM	SEAC Organized Session - Electrochemistry and Materials	311C
OS	SUN PM	Electrochemistry	308A
OC	Mon AM	ACS DAC New Frontiers in Electrochemical Energy Conversion and Storage	311A
AW	Mon PM	CN Reilley and Young Investigator Awards	300
IS	Mon PM	ACS DAC Microfluidic Systems with Electrochemical Detection for the Investigation of Biological Processes	307B
OC	Tues AM	SEAC Organized Session – Bioanalytical Applications of Electrochemistry 1	311C
PS	Tues AM	Electrochemistry	Blue Area (Hall A2-Aisles 700-1300)
OC	Tues PM	SEAC Organized Session – Bioanalytical Applications of Electrochemistry II	311D
IS	Wed AM	ACS DAC: Electrochemistry and Energy	311A
OS	Thurs AM	Nanotechnology – Sensors and Electrochemistry	307B
IS	Thurs PM	Carbon Nanomaterial-based Electrochemical Biosensing	205A

Charles N. Reilley and Young Investigator Awards Symposium

2:00 Introductory Remarks - Allen J Bard

2:05 Presentation of the 2010 Charles N. Reilley Award to Richard M Crooks, University of Texas at Austin by Allen J Bard, University of Texas at Austin

2:10 (690-1) Bipolar Electrode Arrays RICHARD M CROOKS, University of Texas at Austin, Francois Mavre, Kwok-Fan Chow, Eoin Sheridan, Byoung-Yong Chang, John Crooks

2:45 (690-2) Studying Intermediates on Electrode Surfaces by Scanning Electrochemical Microscopy ALLEN J BARD, University of Texas at Austin, Joaquín Rodríguez-López, Qian Wang

3:20 (690-3) Spectroelectrochemical Investigations of Nanostructured Electrode Interfaces KEITH J. STEVENSON, University of Texas at Austin, Robert A. May, Lilia Kondrachova, Jing Wu

3:55 Recess

4:05 Presentation of the 2010 Young Investigator Award to Christy L. Haynes, University of Minnesota, by Allen J Bard, University of Texas at Austin

4:10 (690-4) Assessing Nanoparticle Toxicity CHRISTY L. HAYNES, University of Minnesota, Bryce J. Marquis, Sara A. Love, Melissa A Maurer-Jones

4:45 (690-5) Measuring Other Transmitters Besides Dopamine, MARK WIGHTMAN, University of North Carolina, Chapel Hill

Other SEAC activities at Pittcon

The brief Annual Business meeting will follow for the Reilley Symposium for ~ 10 minutes. Please plan to stay for the meeting, as it is required of all tax-exempt organizations. Prospective members and guests are welcome to attend the business meeting.

The reception for Professor Crooks will be held on Monday, March 1 from 5:30 to 7 PM at the Ming Court Restaurant at 9188 International Drive, Orlando Florida (just up the road from the Convention Center). The reception is open to all and reservations are not necessary. Hors d'oeuvres will be provided with a cash bar.

The Reilley Award dinner will be held immediately following the reception, again at the Ming Court Restaurant at 9188 International Drive, Orlando Florida (just up the road from the Convention Center). **The dinner is open to members and guests, but advance reservations are required.** The deadline for reservations has passed, but you may contact the SEAC Activities Chair, Shelley Minteer (minteers@slu.edu) to find out if there are still slots available. The charge for the banquet is \$50/person.

STUDENT TRAVEL AWARD RECIPIENTS

...And a round of applause for the students chosen to receive travel awards to present their work at PITTCON this year. The SEAC Graduate Student Travel Grants, sponsored by [Eco Chemie](#), [Princeton Applied Research](#), [CH Instruments](#), [Gamry Instruments](#), and [Nova Biomedical](#), are awarded to promising graduate students to offset the cost of travel to the Pittsburgh Conference to deliver an oral presentation in a Conference symposium. Our awardees this year are:

Richard Keithley, University of North Carolina (Mentor: Mark Wightman)
Monique Makos, Pennsylvania State University (Mentor: Andy Ewing)
Shencheng Ge, University of Minnesota (Mentor: Christy Haynes)
Yogesh Singh, Pennsylvania State University (Mentor: Anne Andrews)

ELECTION RESULTS

The results are in! Our new board members for 2010-2015 are Frank Zamborini, Shigeru Amemiya, and Antje Baeumner. Johna Leddy is our President-Elect and will assume the office of President in July, 2011. Jon Howell will continue to serve as Secretary, and Petr Vanysek will take over from Johna as Treasurer, effective July 1, 2010.

We also want to say "Thank you" to our other candidates for their willingness to run for office: Chuck Henry, Steve Maldonado, and Michael Johnson. (Don't worry, you will all be getting a call again next November. It was a close race!)

Those members whose terms expire this year are Faye Rubinson, Steve Creager, and Eric Bakker.

EMPLOYMENT OPPORTUNITIES

Electrochemical Postdoc Position at the University of Florida

Two or three postdoctoral positions in the general area of Electrochemistry will be filled over the next couple of months, with specific application to electroactive polymers. The projects will involve electrochemical and spectroscopic studies on electropolymerized and spray-coated films of electroactive polymers. In one project, the work will focus on electrochromism including colorimetry and extension to electrochromic devices. In another project, we will be investigating the charge storage capabilities (batteries and supercapacitors) of electroactive polymers deposited on high surface area substrate electrodes. Candidates should have a PhD with expertise in electrochemistry; preferably with studies on electroactive polymer films. It is expected that this position will evolve into a lead postdoc position where the person will be reporting directly to, and communicating with, our collaborators and program managers. As such, strong written and spoken English capabilities are important. Interested candidates should send a resume with a list of three or four references to John R. Reynolds with the words "Electrochemical Postdoc Position" in the subject line of the email. John's email is: reynolds@chem.ufl.edu.



Technical Marketing Manager

Gamry Instruments is a manufacturer of electrochemical instruments, software, and accessories. Founded in 1989, Gamry develops and markets electrochemical laboratory equipment worldwide to end users in various industries.

Job Description: We are looking for a key member of our growing company. The Marketing Manager will develop and execute Gamry's marketing programs including product definition, user training, technical publications, and web-based customer service technologies.

Experience Level: 5+ Years after receipt of academic degree.

Requirements: BS, MS, or Ph.D. in Chemistry or related science with a concentration in electrochemistry. Must have a fundamental understanding of potentiostats, software, and

electrochemical applications for corrosion control, battery development, electrochemical research techniques, and electroanalytical chemistry. An understanding of the sales process and the role of marketing for technical products is critical. Must communicate well in spoken and written English and enjoy interaction with customers and co-workers. Other languages are a plus. Must hold a US passport or a Green Card.

Rewards: Salary will be commensurate with experience and education. Gamry provides a very good benefit package, including profit sharing. Incentives based on sales levels are possible.

Contact: Email your resume to employment@gamry.com **No calls please.**

2010 Electrochemistry Gordon Conference

Steve Creager (2010 Electrochemistry Gordon Research Conference Chair) reports that the 2010 Electrochemistry Gordon Research Conference was successful beyond all imagining!

The Electrochemistry Gordon Research Conference was held January 10 - 15 in Ventura California, and if this writer may say so in his admittedly biased opinion the conference appeared to be quite successful. The conference had 126 attendees including 35 graduate students and 15 postdocs who presented 21 invited talks and 78 poster presentations on a broad range of electrochemistry topics including electrochemical energy conversion and storage, electrochemical nanoscience / nanotechnology, bioelectrochemistry, electrochemical memories / information storage, and others. For the first time the conference included an affiliated Gordon Research Seminar (GRS) for which all the talks except a plenary talk by Rick Van Duyne were delivered by post-docs or graduate students. The GRC had excellent attendance (44 total) and was ably led by Ryan White; congratulations Ryan on a stellar first run!

The GRC conference vice-chair, Dan Scherson, led a rousing open session on Thursday night which is sure to provide an excellent entry into a fine conference that will (probably) be held in January 2012. Keith Stevenson was elected vice-chair for the 2012 conference which means that Keith will be chair of the conference that will (probably) be held in January 2014. Steve Feldberg was the first to remind me that that 2014 conference will be held on the fiftieth anniversary of the first electrochemistry Gordon Research Conference which included some very important figures in modern electrochemistry, many of whom have been active in SEAC over the years. Keith will have his work cut out for him. (There are also plans to work on a retrospective of the conference, so all of you out there with photos and anecdotes, please start getting together your contributions.)

MEETINGS TO COME

Meeting	When	Where	Link for More Information
PITTCON 2010	2010, February 28 – March 5	Orlando, FL, USA	http://pittcon.org/
NACE Corrosion 2010	2010, March 14-18	San Antonio, TX, USA	http://events.nace.org/conferences/c2010

ACS spring meeting	2010, March 21-25	San Francisco, CA, USA	http://portal.acs.org/
217 th Meeting of the Electrochemical Society	2010, April 25-30	Vancouver, Canada	http://www.electrochem.org/meetings/biannual/217/217.htm
8th ISE Spring Meeting	2010, May 3- 6	Columbus, OH, USA	http://spring10.ise-online.org/
2nd Regional Symposium on Electrochemistry - SE Europe	2010, June 6-10	Belgrade, Serbia,	http://rse-see.net
8th International Symposium on Electrochemical Impedance Spectroscopy	2010, June 6-12	Algarve, Portugal	http://www.eis2010.org/
International Conference on Electrified Interfaces	2010, June 20-25	Geneva, NY, USA	http://www.eis2010.org/
Gordon Research Conference- Bioelectrochemistry	2010, July 10-16	Biddeford, ME, USA	http://www.grc.org/meetings.aspx?year=2010
8th International Symposium on New Materials and Nano- Materials for Electrochemical System	2010, July 11-15	Shanghai, China	http://www.polymtl.ca/newmaterials/eng/index.html
Gordon Research Conference-Corrosion Aqueous	2010, July 25-30	New London, NH, USA	http://www.grc.org/meetings.aspx?year=2010
Gordon Research Conference- Electrodeposition	2010, August 1-6	New London, NH, USA	http://www.grc.org/meetings.aspx?year=2010
American Chemical Society Fall Meeting	2010, August 22-26	Boston, MA, USA	http://portal.acs.org/
61st Annual ISE Meeting	2010, 26 September - 1 October	Nice, France	http://event10.ise-online.org/ (includes Electrochemistry on a Local Scale)
Electrochemistry: From Microscopic Understanding to Global Impact	2010, September 13-15	Bochum, Germany	http://www.gdch.de/electrochemistry2010
218th ECS Meeting	2010, October 10- 15	Las Vegas, NV, USA	http://www.electrochem.org/meetings/biannual/218/218.htm
9th International Frumkin Symposium "Electrochemical Technologies and Materials for 21 st Century"	2010, October 24- 29	Moscow, Russia	http://www.elchem.ac.ru
Pacificchem 2010	2010, December 15-20	Honolulu, HI, USA	http://www.pacificchem.org/

219th ECS Meeting	2011, May, 1-6	Montreal, Canada	
9th ISE Spring Meeting	2011, May 8-11	Turku, Finland	
Matrafured 2011 Conference on Electrochemical Sensors	2011, June 19 - 24	Dobogokö, Hungary	http://www.pretsch.ethz.ch/matrafured/
Int'l Symposium on Polymer Electrolytes	2010, August 29-September 3	Padova, Italy	http://www.chimica.unipd.it/ispe12/
62nd Annual ISE Meeting	2011, September 11-16	Niigata, Japan	http://event11.ise-online.org/
220th ECS Meeting	2011, October 9-14	Boston, USA	

More details on some of the above

From Christian Amatore and Bernard Tribollet::

The 61st Annual Meeting of the International Society of Electrochemistry will be held in Nice, France from September 26th - October 1st, 2010. The Meeting will address all aspects of electrochemistry through the main theme "Electrochemistry from Biology to Physics".

Abstracts for both poster and oral presentations may now be submitted through the meeting website at <http://event10.ise-online.org> **The closing date for submission of abstracts is April 15, 2010.** Abstracts received after this date will not be considered. Please note that it is necessary to first establish your meeting account on the website. You will then be sent an email with your unique account name and password.

Gunther Wittstock and Bernd Speiser have also sent along details for two symposia at the meeting: "Electrochemistry on a Local Scale" and "Molecular Electrochemistry - Methods, Models, Molecules, Materials"

From Takashi Ito

Prof. Lane Baker (Indiana University) and Takashi Ito will organize a symposium "**Electrochemistry in Nanospaces**" at the 218th ECS Meeting in Las Vegas (October 10-15, 2010). This symposium will provide an international and interdisciplinary forum for researchers to present their recent research on electrochemical studies involving nanospaces (nanopores, nanoholes) with well-defined structures. Papers are invited in the following areas: electrochemical approaches to synthesize nanoporous materials, electrochemical studies on mass/electron/charge transport behavior within nanospaces, and applications of nanospaces for electroanalytical sensing and power sources.

The deadline for abstract submission is May 7, 2010, and for more information, please visit www.electrochem.org/meetings/biannual/218/218.htm

From Gary Christian:

Ian McKelvie, Toshihiko Imato, Kate Grudpan, and Gary D. Christian will be organizing a symposium entitled **Advances in Flow-based Analytical Techniques** at Pacificchem 2010. The term *flow-based analysis* embodies flow and sequential injection analysis, lab-on-valve, lab-on-a-chip, and microfluidics as well as aspects of electrophoresis, chromatography and cytometry. Flow-based analytical techniques are often used for stand-alone determination of one or more analytes, but more than that, they provide a platform for the application of the whole canon of sample pretreatment, derivatization, separation and detection methods that are applied in modern analytical science. This symposium focuses on recent advances in the development and application of flow-based analytical techniques in the life sciences, manufacturing, agricultural and environmental sciences. It also embraces recent developments in laboratory automation using flow analytical approaches, and the evolution and implementation of portable and autonomous flow analysis systems for field measurements. Abstract submission **January 1 – April 5, 2010**. Please select "Contributed Paper" for submissions.

GOINGS, COMINGS, AND OTHER CHANGES

Michael Weber, PhD (of ESA – A Dionex Company) writes to say that his email address is now Michael.Weber@dionex.com

Lou Coury says hello and reports that he has taken a new position at Eli Lilly as Director of Compliance, Training and Records Management for the clinical and product development functions at Lilly (~4,700 scientists). He also recently won the corporate Lilly Quality Pinnacle Award and the Business Operations 2009 Coach of the Year award. His e-mail is coury@lilly.com

DURING THE NEXT BREAK IN THE ACTION...

From Pete Kissinger –

If any readers have idle time, it is fun to do a Google search on SEAC. You will soon see the many options for decoding this important hieroglyph. My favorite is the Sioux Empire Astronomy Club. Then there is the much needed Society for Ethics Across the Curriculum. The last I looked, the real SEAC came up as the 7th reference, a lucky number. All will be well.