

# SEAC *communications*

Volume 23, Number 3, October 2007

## Editor

### ***Anna Brajter-Toth***

Department of Chemistry  
University of Florida  
Gainesville, FL 32611-7200  
atoth(at)chem.ufl.edu

## Regional Editors

### ***Alan Bond***

Professor Alan M. Bond  
School of Chemistry  
Monash University  
Victoria 3800 Australia  
a.bond(at)sci.monash.edu.au

### ***Karl Cammann***

Westfälische Wilhelms Universität  
D-4400 Münster, Germany  
Cammann(at)uni-muenster.de

### ***Yoshio Umezawa***

University of Tokyo  
Tokyo (Hongo) 113 Japan  
Umezawa(at)chem.s.u-tokyo.ac.jp

## SEAC Web Editor

### ***Samuel Kounaves***

Department of Chemistry  
Tufts University  
Medford, MA 02155  
samuel.kounaves(at)tufts.edu



The Society for Electroanalytical Chemistry - 111 Loren Place, West Lafayette, IN 47906

**Available on the WWW at <http://electroanalytical.org>**

**IN THIS ISSUE:**

**Letter from our new President – Susan Lunte  
Reilley and Young Investigators Awardees  
Professional recognition of SEAC members  
in recent months**

**Recent gatherings (Birthday celebrations!)**

**Death of Roger Bates**

**Goings and Comings**

**Membership Updates**

**Call for Nominations for Awards**

**Solicitation of Nominations for Officers and  
Board Members**

**Membership update**

**Donations**

**A Historical Note: Officers and Board  
Members through the years**

**Upcoming meetings**

**FROM THE PRESIDENT—**

**A Message from our New President**

Just a few brief words as I start tackling the job of SEAC President--

I would first like to thank Andy Ewing, our former president, for all his efforts on behalf of SEAC over the past two years. I know he would join me in also thanking the committee members and other officers who also contributed to the improvements in our financial and professional status during his term.

In our next newsletter, I will outline my goals for SEAC over the next two years as well as update you on some of the issues that I feel we need to address at our next annual meeting at PITTCON 2008. I look forward to returning to New Orleans and hope to see many of you there.

I hope you take the time to read and enjoy reports here of the accomplishments of your SEAC colleagues and to read about some landmark birthdays that were celebrated by some of our long-standing members. As you

will see, we continue to welcome more students and established scientists to our ranks, and to add to those who enjoy Life Membership in the Society.

Congratulations are in order to Hector Abruña and Shelley Minter, our Reilley and Young Investigator Award winners for 2008. Having read about Tito's work over the years and watched Shelley's progress at Iowa, it is clear that this year's awardees continue the tradition of excellent science and service to the scientific community that have been a hallmark of past recipients.

--Susan Lunte

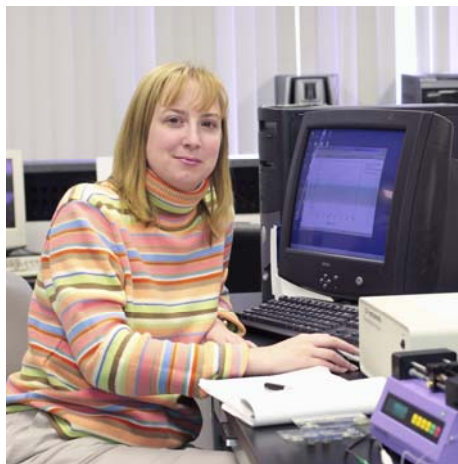
**REILLEY INVESTIGATOR AWARD FOR 2008**

It is with great pleasure that we introduce the winners of the 2008 SEAC AWARDS.

**Prof. Hector D. Abruña**, Émile M. Chamot Professor and Chair of Chemistry at Cornell University (nominated by Prof. Christian Amatore, Ecole Normale Supérieure), has been selected as the 2008 recipient of the C. N. Reilley Award. Professor Abruña worked as a graduate student with Royce W. Murray and Thomas J. Meyer at the University of North Carolina at Chapel Hill and carried out postdoctoral studies with Allen Bard. After a brief time at the University of Puerto Rico, he joined the faculty at Cornell in 1983. Professor Abruña has been the recipient of numerous other awards including a Presidential Young Investigator Award, an Alfred P. Sloan Foundation Research Fellowship, a John S. Guggenheim Fellowship, the Tajima Prize of the International Society of Electrochemistry, a J. W. Fulbright Senior Research Fellowship and an Iberdrola Fellowship. He is also a Fellow of the American Association for the Advancement of Science and was recently elected to the American Academy of Arts and Sciences. Professor Abruña and his group are engaged in the study of a wide range of electrochemical phenomena including Fuel cells, molecular electronics, lithium ion batteries, OLEDs and biosensors. Prof. Abruña has served as advisor to 30 Ph.D. students and 30 post-docs.



## YOUNG INVESTIGATOR AWARD FOR 2008



**Prof. Shelley Minter**, St Louis University (nominated by Prof. Johna Leddy, University of Iowa) has been selected as the 2008 Young Investigator Awardee. Professor Minter began her career as an undergraduate at Western Illinois University and, staying in the Midwest, received her PhD from University of Iowa. Professor Minter's research has three major areas of focus: the design of magnetic microparticle/catalyst electrodes for improving electrosynthetic processes, conductive molecularly imprinted polymers for sensor and drug deliver applications, and high power density and long lifetime biofuel cells. She has also been the recipient of the Missouri Inventor of the Year Award (2006), Academy of Science of St. Louis Innovation Award (2005), Saint Louis University Award for Excellence in Teaching (2004), and the Saint Louis University Student Government Association Faculty Excellence Award (2004 and 2006).

Please join us in congratulating these two outstanding individuals for their contributions to the field of electroanalytical chemistry.

### PROFESSIONAL RECOGNITION IN RECENT MONTHS

**Hector Abruña** (in addition to the Reilley Award) has received the *ACS Division of Analytical Chemistry Award in Electrochemistry*, sponsored by ColeParmer. **Robert Corn**, University of California, Irvine, a long time friend of SEAC, has received the ACS Division of Analytical Chemistry Award in Spectrochemical Analysis. These awards are presented to individuals who have advanced the field by way of development of instrumentation that has made a significant impact, elucidation of important events or processes, or authorship of seminal research papers or books.

#### **R. Mark Wightman** Recognized with 2008 ACS Analytical Chemistry Award

This award focuses particularly on originality and importance of the awardee's work in terms of society as a whole. Mark, the W. R. Kenan, Jr., Professor of Chemistry at the University of North Carolina at Chapel Hill since 1989, is also a faculty member in the Neurobiology Curriculum and the Neuroscience Center. His research in electrochemistry and neurochemistry, particularly in the area of *in vivo* detection, has had far-reaching implications in the study of dynamic chemical communication in the brain reward system. Mark is a long time member of SEAC and former President of the Society.



#### **Charles R (Chuck) Martin** wins Nano 50 Award

Charles Martin, the Colonel Allen R. and Margaret G. Crow Professor of Chemistry at the University of Florida and Director of the Center for Research at the Bio/Nano Interface has been awarded a Nano 50 Award from Nanotech Briefs. Each year Nanotech Briefs presents awards to leaders or pioneers in a specific area of nanotechnology. The awardees are selected based on a significant background of accomplishments in extending the field of nanotechnology. Chuck will be picking up his award at the NASA Tech Briefs National Nano Engineering Conference in Boston in November.

#### **Joe Wang** is now a Doctor three times over!



Dr. Joseph Wang, Director of the Center for Bioelectronics and Biosensors at the Arizona State University Biodesign Institute, has been awarded Honorary Professor Degrees from two European universities this June. Complutense University of Madrid (Spain's largest university), and the National Institute of Chemistry in Ljubljana, Slovenia recognized Wang's lifetime contributions to the fields of science and engineering.

Joe Wang is the author of 725 papers and 10 books and has been recognized by the ISI as the “Most Cited Scientist in the Engineering World” (1996-2006) and was ranked number four on the ISI’s list of “Most Cited Researchers in Chemistry” (1996-2006).

*Congratulations in order for **Dennis Peters***

Dennis Peters, Herman T. Briscoe Professor of Chemistry at Indiana University, sends us news that he has recently been elected as Fellow of The Electrochemical Society, and was to be inducted as a member of the 2007 class of Fellows at the October, 2007 meeting of The Electrochemical Society in Washington, D.C.

**RECENT Birthday GATHERINGS**

*Happy 60<sup>th</sup> Birthday to **Israel Rubenstein!!***

At the end of August a conference (chairpersons: Zineb Mekhalif and Christian Amatore) in honor of Israel Rubenstein’s 60th birthday took place in Namur, Belgium.



Opening with a lecture by Israel entitled “From Electrochemistry to Nanochemistry: my First 38 Years of Research,” talks from a number of friends, colleagues and former students followed.

More information can be found on the website for the conference:  
<http://webapps.fundp.ac.be/chimie/electrochimie/>

A group photo of all the participants;



Invited speakers (from left: Weiss, Schmuki, Amatore, Bard, Tadjeddine, Buess-Herman, Janata, Rubenstein, Reinhoudt, Mekhalif, Vaskevich, Girault, Golan).



The family having a good time in Bruges after the conference (from left: Ron, Beverly, Tali, Tammi, Yael, Israel).



**Mark Wightman** (featured above as the 2008 ACS Analytical Chemistry Awardee) recently celebrated a landmark birthday, marked by a gathering of the many students, colleagues, and friends in Chapel Hill. The celebration included talks by many of these as well as a poster session. A group photo appears below and the program and more details and photos are available at [www.wd60.com](http://www.wd60.com)

Group photo from Mark's 60<sup>th</sup> birthday celebration, held in Chapel Hill.

### WITH DEEPEST REGRETS

**Prof. Roger Gordon Bates**, an Emeritus Professor of Chemistry at the University of Florida has passed on August 20<sup>th</sup>. Roger was best known for his work on accurate pH measurements (featured in a SEAC Newsletter in 2001).

Born in Cummington, Massachusetts in 1912, Roger worked his way through high school and college (BS, U. Mass, 1934). He received the MA and PhD degrees at Duke, before carrying out postdoctoral work at Yale. From 1939 until 1969, Roger was a physical chemist at the National Bureau of Standards.

Roger Bates was the author of a graduate-level textbook and more than two hundred journal articles. He was honored for his work with awards from professional organizations both in this country and in England. Upon his retirement from NBS in 1969, he accepted a position on the chemistry faculty at the University of Florida, where he taught until 1979. Roger continued to be involved in graduate education at the University of Florida long past his retirement from active research. He taught jointly, with Herb Laitinen, a graduate analytical chemistry course and established a Bates and Laitinen Award in Analytical Chemistry at the University of Florida that each year

recognizes outstanding analytical graduate students at the University of Florida. Roger was an accomplished musician, and he continued to play the organ until well into his retirement years. Also an avid tennis player, he continued to enjoy the sport until the age of 92.

Those who would like to make memorial contributions may do so through the Roger G. and Jo J. Bates Scholarship at the Department of Chemistry, University of Florida, P. O. Box 117200, Gainesville FL 32611. (Online contributions: <https://www.ufl.edu/OnlineGiving/FundDetail.asp?FundCode=006103>).

## GOINGS AND COMINGS

*From Karen Ayers:*

Karen left Energizer in mid-June to take a new job managing research projects with Proton Energy, part of Distributed Energy Systems (for now).

Proton Energy is a small company that makes electrolyzers for industrial gas applications as well as fueling and backup power applications. I love it here and have found it a very good fit for me. We relocated the family to Connecticut, which has also been a good move for us. My new contact info is

Email: [kayers@distributed-energy.com](mailto:kayers@distributed-energy.com)

Phone: 203-678-2190

My email will likely change by the end of the year since Proton is being sold (which I knew when I started) but I will update as that happens.

### *WHAT HAPPENS TO AN ELECTROCHEMIST WHEN THEIR COMPANY TRANSFORMS??*

Deniz Schildkraut (Eastman Kodak) has begun a series of blogs since her own transformations at Kodak. The first is on motion stabilization in Kodak cameras (<http://denizschildkraut.1000nerds.kodak.com/default.asp?item=543746>). She is now planning a blog focused on electrochemistry for non-electrochemists and would welcome any and all suggestions at [denis.schildkraut@kodak.com](mailto:denis.schildkraut@kodak.com)

## MEMBERSHIP UPDATE

### *New Student Members*

Lisa Harlow, Michigan State University  
Kane Barker, Georgia Institute of Technology  
Jennifer Fedorowski, University of Maryland – Baltimore County  
Bo Zhang, Pennsylvania State University  
Imee Arcibal, Pennsylvania State University  
Praneshware Sethupathy, University of South Carolina

### *New Regular members*

Michael Heien, Pennsylvania State University  
Michael Zach, University of Wisconsin - Stevens Point

### *Completed Lifetime payments*

Michael Freund, University of Manitoba  
Rose Clark, St. Francis University  
George Wilson, University of Kansas

## DONATIONS

The Society recently received major contributions from Fred and Roxana Anson and from Bill Heineman. A big “Thank you” is in order to these individuals.

And—lest we forget—SEAC also benefits greatly from sponsorship for the Reilley and Young Investigator Awards from our Corporate donors, BAS and Cypress Systems. Our student travel awards benefit from the generosity of Eco Chemie, Princeton Applied Research, CH Instruments, Gamry Instruments, and Nova Biomedical

## NOMINATIONS OPEN FOR THE 2009 REILLEY AND YOUNG INVESTIGATOR AWARDS

Nominations are now open for the 2009 Reilley and Young Investigator Awards. 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. The signature of his research was to decline empiricism, seeking a basic understanding of measurements and detection schemes. Reilley recognized that measuring things is at the heart of modern chemistry. Reilley is central in the history of the Society for Electroanalytical Chemistry, which was formed following his death in 1981, as a vehicle for managing the award. A biography of Charles N. Reilley, by Royce Murray, is available at: <http://newton.nap.edu/html/biomems/creilley.pdf>

Nominations for the Reilley Award should include a letter of nomination describing the individual's significant contributions to electroanalytical chemistry, at least two seconding letters of support, and a curriculum vitae for the individual. All nomination materials will be retained by SEAC. Once nominated, any individual will be considered for the Reilley Award for three years without being renominated. The submission of any additional supporting information or a renomination is welcome at any time, however, **the decision for the 2009 Award will be based upon the material that is available to the Award Committee by the 15<sup>th</sup> of February, 2008.**

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. All nomination materials will be retained by SEAC. Candidates for the YI Award must be renominated each year during their period of eligibility. **Nominations for the 2008 YI award are due by the 15<sup>th</sup> of February, 2008.**

The SEAC Graduate Student Travel Grant, sponsored by [Eco Chemie](#), [Princeton Applied Research](#), [CH Instruments](#), [Gamry Instruments](#), and [Nova Biomedical](#), is awarded to promising graduate students to offset the cost of travel to the Pittsburgh Conference to deliver an oral presentation in a Conference symposium. The presentation should be on a topic related to their Dissertation or Thesis, and in some area or application of electroanalytical chemistry. Because the costs in various venues of the Conference may vary, the amount of the award will be determined by SEAC and will be between \$250 and \$500. The value of all of the awards in any one year will be equivalent, but it may vary from year to year. The award will not exceed the reasonable cost of advance-purchase economy airfare and reasonable expenses for lodging, nor the awardee's actual expenses. In order to spread the travel money as equitably as possible, not more than two awardees will be selected from any one research group and no more than three awards will be made to students from any one educational institution. **Nominations for travel grants are due to the SEAC awards committee chair by January 15th.** The nomination shall consist of the student's current graduate transcript, a copy of the abstract submitted to the Pittsburgh Conference, a complete resume including publication list, and a letter of recommendation from the student's research advisor. The advisor's letter should include a statement of approximate graduation date and a short description of the student's speaking ability. A candidate shall be considered for an award for travel to Pittcon meetings occurring up to one year after the student's Ph.D. defense. Previous awardees will not be eligible for further consideration. More details on the awards as well as a list of former awardees can be found at <http://www.electroanalytical.org/awards.html>

## NOMINATIONS ARE OPEN FOR SEAC OFFICERS AND BOARD OF DIRECTORS

It is nearly time to elect new officers and board members. The terms of office for the following SEAC Directors will expire after June 30, 2008:

Ingrid Fritsch  
Petr Vanysek  
Tom Ridgway

As stated in the Society's Bylaws, these individuals are not eligible for immediate re-election as Directors.

The Nominating Committee (Chaired by Carol Korzeniewski) is currently preparing a slate of candidates to fill three positions on the Board of Directors and for the Officers. This list, according to the Bylaws, will include any person

nominated by at least 10 members of the Society together with others deemed appropriate by the nominating committee. The list of candidates must be submitted to the Secretary by November 15 for the election to be held during the period December 1 – January 15. You are hereby invited to submit your suggestion(s) directly to the Chair of the Nominating Committee.

Prof. Carol Korzeniewski  
 SEAC Nominating Committee  
 Texas Tech University  
 Department of Chemistry and Biochemistry  
 Lubbock, TX 79409-1061  
[carol.korzeniewski@ttu.edu](mailto:carol.korzeniewski@ttu.edu).

The term for the new Board of Directors members will be from July 1, 2008 – June 30, 2013.

The Secretary and Treasurer terms are from July 1, 2008 – June 30, 2010.

The President elected will serve the following terms:

July 1, 2008 – June 30, 2009 President Elect

July 1, 2009 – June 30, 2011 President

July 1, 2011 – June 30, 2012 Past President

### A SLICE OF HISTORY

Ever wonder who has been an officer or board member of SEAC?? Jon Howell (with the assistance of Joe Maloy) recently compiled the following list.

	<b>President</b>	<b>President-Elect</b>	<b>Past-President</b>	<b>Secretary</b>	<b>Treasurer</b>
1984	1985	<i>William Heineman</i>	<i>Joseph Maloy</i>	<i>Janet Osteryoung</i>	<i>Larry Faulkner</i>
1985	1986	<i>Joseph Maloy</i>	<i>Janet Osteryoung</i>	<i>William Heineman</i>	<i>Larry Faulkner</i>
1986	1987	<i>Janet Osteryoung</i>	<i>Peter Kissinger</i>	<i>Joseph Maloy</i>	<i>Larry Faulkner</i>
1987	1988	<i>Peter Kissinger</i>		<i>Janet Osteryoung</i>	<i>Larry Faulkner</i>
1988	1989	<i>Peter Kissinger</i>	Barry Miller	<i>Joseph Maloy</i>	Frank Schultz
1989	1990	Barry Miller		<i>Joseph Maloy</i>	Frank Schultz
1990	1991	Barry Miller	Royce Murray	<i>Joseph Maloy</i>	Frank Schultz
1991	1992	Royce Murray		<i>Joseph Maloy</i>	Frank Schultz
1992	1993	Royce Murray	Dennis Evans	<i>Joseph Maloy</i>	Frank Schultz
1993	1994	Dennis Evans		<i>Joseph Maloy</i>	Frank Schultz
1994	1995	Dennis Evans	Richard McCreery	<i>Joseph Maloy</i>	Joseph Gordon
1995	1996	Richard McCreery		<i>Joseph Maloy</i>	Joseph Gordon
1996	1997	Richard McCreery	R. Mark Wightman	<i>Joseph Maloy</i>	Joseph Gordon
1997	1998	R. Mark Wightman		<i>Joseph Maloy</i>	Joseph Gordon
1998	1999	R. Mark Wightman	Stephen G. Weber	Andrew Ewing	Joseph Maloy
1999	2000	Stephen G. Weber		R. Mark Wightman	Andrew Ewing
2000	2001	Stephen G. Weber	Mark Meyerhoff		Sue Lunte
2001	2002	Mark Meyerhoff		Stephen G. Weber	Sue Lunte
2002	2003	Mark Meyerhoff	Henry White		Sue Lunte
2003	2004	Henry White		Mark Meyerhoff	Sue Lunte
2004	2005	Henry White	Andrew Ewing		Rick Baldwin
2005	2006	Andrew Ewing		Henry White	Rick Baldwin
2006	2007	Andrew Ewing	Sue Lunte		Jon Howell
2007	2008	Sue Lunte		Andrew Ewing	Jon Howell
2008	2009	Sue Lunte	Richard Durst		Jon Howell
2009	2010	Richard Durst		Sue Lunte	





## UPCOMING MEETINGS

### *ECS meetings:*

Phoenix, Arizona, May 18-23, 2008, <http://www.electrochem.org/meetings/biannual/213/213.htm>  
Honolulu, Hawaii Oct. 12-17, 2008, <http://www.electrochem.org/meetings/biannual/214/214.htm>

### *ISE meetings:*

Foz do Iguacu, Brazil, March 17-19, 2008 (6th ISE Spring Meeting), <http://spring08.ise-online.org/>  
Seville, Spain September 7 – 12, 2008, (Annual Meeting) <http://event08.ise-online.org>

Bunsen Colloquium, 65 Years of Potentiostats, November 8th - 9th, 2007, Fraunhofer IKTS, Dresden, [http://www.ikts.fraunhofer.de/events/tagungen/bunsen\\_en.html](http://www.ikts.fraunhofer.de/events/tagungen/bunsen_en.html)

XVIII Congreso de la Sociedad Iberoamericana de Electroquímica (XVIII Meeting of the Iberoamerican Society of Electrochemistry), Medellín, Colombia, March 10-14, 2008, <http://servicios.udea.edu.co/Congreso2008/>

1st Regional Symposium on Electrochemistry of South-east Europe, Crveni otok/Rovinj/Istra, Croatia, May 4-8, 2008, <http://www.rse-see.net>

6th Asian Conference on Electrochemistry, Taipei, Taiwan, May 11-14, 2008, <http://www.acec2008.org>  
ESEAC 2008, Prague, Czech Republic, June 16-19, 2008, <http://www.esac2008.drasar.com/>

4th Gerischer Symposium, Berlin, Germany, June 25-27, 2008, [www.uni-ulm.de/ge-symp](http://www.uni-ulm.de/ge-symp)

1st International Symposium on Electrochemistry, Bellville, South Africa, June 19-21, 2008

Faraday Discussion 140: Electrocatalysis - Theory and Experiment at the Interface, Southampton, UK, July 7-9, 2008, [www.rsc.org/FD140](http://www.rsc.org/FD140)

*And last but not least...*

PITTCON, New Orleans, LA, USA, March 1-7, 2008, [www.pittcon.org](http://www.pittcon.org). Look for SEAC activities at PITTCON in the next edition of the Newsletter.