

SEAC *communications*

President's Message

Community Crosstalk

In my first message as SEAC president, I commented on the heterogeneous (in more ways than one) nature of electroanalytical chemistry, and that SEAC members are involved in a variety of research efforts in analysis, energy conversion, electrosynthesis, etc. With a small dose of presidential license, I want to return to this topic from a different angle. If we consider for the moment the broad areas of electroanalysis, electrochemical energy conversion, electrosynthesis and corrosion, we note that these activities account for a large fraction of the U.S. effort in electrochemistry in terms of both economics and personnel. Indeed, the major economic impact of these areas often leads to both research projects and funding for many SEAC members, and we should be thankful that electrochemical principles and technology extend way beyond analytical applications.

However, there is a dark side to this diversity, which we all have encountered. The scientific communities associated with analysis, energy conversion, and corrosion are often mutually exclusive, with the crosstalk between them rather sparse. This issue can become fairly painful when submitting a manuscript or a grant application in an area outside one's usual expertise. Reviewing groups are often chosen from a single subdiscipline of electrochemistry and may not always appreciate (or even recognize) work from "outside" that subdiscipline. I do not intend to imply any malice or narrow-mindedness on the part of reviewers, but rather that our evaluations of scientific work are naturally affected by our knowledge of the area and the authors involved, and that we have hard-earned standards and conventions that we want to see followed in work we consider acceptable. In many cases, "crosstalk" between communities is well-received and productive, but in the worst case, good work can be rejected because it tries to cross lines between subdisciplines.

This is not a simple problem to cure, even though attempts have been made. If a scientific society attempts to embrace too many diverse areas in order to encourage crosstalk, it runs the risk of fragmentation. But if a society tries to stay too focused, it might discourage important areas which may have long-term consequences, and in the end, promote the death of the society.

If you are waiting for a magic answer to this issue for SEAC and the associated areas of electrochemistry, I have to disappoint you. I think SEAC needs to remain open to other areas of electrochemistry, but it must also retain its identity as a forum for electroanalysis. Given the trends in Washington toward research with significant societal impact, every scientist needs to keep up with developments in diverse areas of science. I have always thought that SEAC members and the electroanalytical community have maintained open minds, and I am confident that this fortunate situation will continue.

Rick McCreery

Editorial

...and now for something completely different or possibly very similar. Dick Durst, my esteemed predecessor, has been informing and amusing and cajoling the SEAC membership since April 1988 with Volume 5, issue no. 2 of the then SEAC Newsletter. [Dick: I regret to inform you that the spongiform encephalopathy may be farther along than you thought-you started your sentence as editor of SEAC communications *eight* years ago, not the six years you claimed in your farewell address]. I know I won't be the only SEAC member who will miss Dick's editorial voice on subjects sundry and his joyous pursuit on our behalf of all matters electro-fill-in-the-blank. Many thanks for anchoring SEAC's lines of communication these past six/eight years, Dick.

Fortunately for us all, Dick blew a quiet, retiring departure from editorial deadlines with his promise/threat to contribute items to future issues. Not only do I anticipate receiving many of his dignified musings from Geneva (NY, alas?), but what I want to know is why didn't he submit something, anything for 'this' issue! Get with it, Dick!!

I will have ample editorials to discuss some of the directions I would like to take with our newsletter in the future-and I would hope these directions will be discussed within the membership, with members of the Board of Directors of SEAC, and with me. As I fall into all three categories, I promise to have many discussions with myself as well. I will broach some of these ideas and transitions in next issue's, post-Pittcon editorial. Dick encouraged everyone in his farewell address to remember e-mail as a facile means of communicating with or hollering at the editor. I have been known (still!) to read cellulose-derived material stuffed into cellulose-derived packages, but I am much, much better at responding to the electrons residing in my electronic mail box. Write often.

I would like to close by seconding our President's message in this issue, "Community Crosstalk", as it is in strong accord with my own philosophie d'electrochemie. Rick returns to and expands on a theme he first developed in his President's message of March 1998 (Volume 12, issue 3). Rick offers the view that an inclusive view of electroanalytical chemistry broadens the proper concerns of SEAC to the electrochemical science and analyses inherent to the study of corrosion, electrochemical energy conversion, and electrosynthesis. As I deem that any exper-

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From the Mailbag

**The Society for
Electroanalytical
Chemistry**

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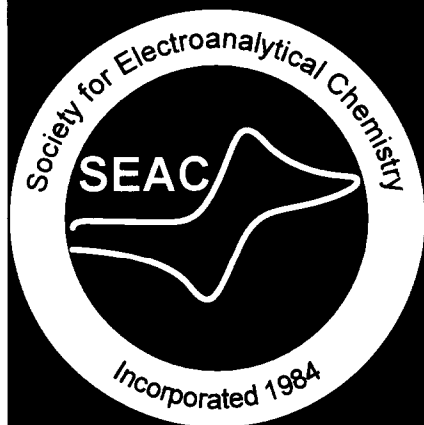
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[Editorial, cont.]

imental chemist must also be in part an analytical chemist (if not, not much has been understood about any experiment!) and consider that chemistry is the science of electrons, I could not agree more with Rick. We in SEAC have chartered our Society to a vast and fascinating range of science. Or to paraphrase our ever-missed Charlie Fleilley: electroanalytical chemistry is what electroanalytical chemists do.

Faraday **Farbuncle**, Pete Kissinger, Bill Geiger, Dick Durst, and now me—a line of electroanalytical editors perhaps best distinguished for their snide senses of humor. It is an honor to join the list, and I look forward to annoying the SEAC membership in the coming issues.

...and remember: rolison@nrl.navy.mil. Let's hear some chatter in the outfield!

Debra Rolison

Items of Note, Noted in Passing

...but how will the skiing be, Art?

After five years (and 58 days) [...not that he was counting...] Jiri (Art) Janata is moving from the Pacific Northwest National Laboratory, Richland, Washington, to Georgia Institute of Technology, Atlanta, Georgia. He will hold Georgia Research Alliance Eminent Scholar Chair in the School of Chemistry and Biochemistry. The appointment is effective March 1, 1997. His wife, Mira **Josowicz**, will be moving from the PNNL to assume her research appointment at the Georgia Tech later in the spring. Their main research interests remain in chemical sensors, electroanalytical chemistry, organic semiconductors and the liquid/liquid interface.

...just in time for **Pittcon '97**, Art! Expect several hundred of your close personal friends and SEAC members to drop by!

Hail to Chairman **RAO**—may your salts always be molten!

When the Mount Rushmore of electroanalytical chemistry's Founding Fathers is finally commissioned, one of those eminences gazing down will be Professor Robert A. Osteryoung, currently Head of the Department of Chemistry, North Carolina State University and **SEAC's** 1987 Reilley Award winner. Robert will be celebrating his 70th birthday this year on January 20. As part of the festivities honoring the man and his science, a symposium will be held on Friday, January 24, 1997, in Raleigh, NC, with invited speakers, covering a rich range of topics, further enhanced by a contributed poster session and a dinner that evening. Details (if not a video) will follow.

Many happy returns, Robert!! May your wine cellar survive the celebrations with a few bottles to see you through the rest of winter!

Plan your research accordingly!

Henry White (University of Utah; white@atlas.chem.utah.edu) and Debra Rolison (Naval Research Laboratory; rolison@nrl.navy.mil) wish to announce they have unfortunately forgotten the rigors of symposium organization and have agreed to organize the 1998 entrant in "Electrochemical Surface Science," the continuing series of symposia sponsored at the National Meetings of the American Chemical Society by the Division of Colloid & Surface Chemistry. They are flavoring their version of this symposium as: Electrochemistry at Nanostructured Materials: 215th Meeting of the American Chemical Society, Dallas, TX, April 1 O-I 5, 1998. Be there.

Think big about small.

PITTCON '97—Electrochemical Focus

Congratulations to the 1997 SEAC Award Winners!

As announced in the last issue, the Charles N. Reilley Award for 1997 will be presented to Professor Dennis Johnson of the Department of Chemistry at Iowa State University, and the 1997 Young Investigator Award will be presented to Professor Ingrid Fritsch of the Department of Chemistry at the University of Arkansas. Please refer to issue 13:1 of the newsletter for Dennis and Ingrid's research biographies. The Reilley Symposium in their honor has been arranged by Professor Marc D. Porter of Iowa State University and will be held on Wednesday morning, March 19, 1997 in the Georgia World Congress Center. The program follows below. Immediately following the symposium, the annual meeting of the SEAC membership will be held in the same room. Please plan to stay for this annual business meeting, which is required of all tax exempt organizations.

The Reception for Reilley Awardee Dennis Johnson will be held on Tuesday, March 18 from 5:30 to 7:30 p.m. in the Omni Hotel. Please check at the hotel for the specific room. Members and guests are welcome. Reservations are not necessary Hors d'oeuvres will be provided with a cash bar.

SYMPOSIUM-Charles N. Reilley and Young Investigator Awards Wednesday Morning, Room 267, Georgia World Congress Center Marc D. Porter, Iowa State University, Presiding

- 8:30 **Introductory Remarks**-Mark D. Porter
- 8:35 **Presentation of the 1997 Charles N. Reilley Award** to Dennis C. Johnson and **The 1997 Young Investigator Award of the Society for Electroanalytical Chemistry to Ingrid Fritsch by Professor Richard L. McCreery, President, Society for Electroanalytical Chemistry**
- 8:45 **Award Address. Electrocatalytic Detection of Polar Aliphatic Molecules: Past, Present, and Future**-DENNIS C. JOHNSON, *Iowa State University*
- 9:20 **High Performance Liquid Chromatography with Pulsed Electrochemical Detection: Discovery and Applications to Biomolecular Medicine**-REID R. TOWNSEND, *University of California at San Francisco*
- 9:55 **Pulsed Electrochemical Detection in Bioanalysis**-WILLIAM R. LACOURSE, *University of Maryland Baltimore County*
- 10:30 **RECESS**
- 10:45 **Award Address: Exploitation of Stability and Structure of Modified Electrodes**—INGRID FRITSCH, *University of Arkansas*
- 11:20 **Mercury Micropumps: A Novel Approach toward a Miniaturized, Low Power Fluid Delivery System**-MARC D. PORTER, *Iowa State University*, Chuan-Jian Zhong, Jing Ni, Shelley J. Coldiron

Congratulations to Mark Wightman, SEAC's President-Elect and the recipient of the 1997 Pittsburgh Analytical Chemistry Award

SYMPOSIUM-Pittsburgh Analytical Chemistry Award Tuesday Morning, Room 314, Georgia World Congress Center Grace Ann Bello, PPG Industries, Inc., Presiding

- 8:30 **Introductory Remarks**-Grace Ann Bello
- 8:35 **Magnetic Field Control of Interfacial Potential and Current at Microelectrodes: Application in Fundamental Studies of Transport Phenomena in Solution-Phase Ion Focusing and Trapping**-HENRY S. WHITE, *University of Utah*, Steven Ragsdale, Xiaoping Gao, Jeonghee Lee
- 9:00 **Neuropeptide Profiling in Individual Invertebrate Neurons**—JONATHON V. SWEEDLER, *University of Illinois at Urbana-Champaign*, Rebecca W. Garden, Lingjun Li, Scott A. Shippy, Robert Fuller, Tatiana P. Moroz, Leonid Moroz

- 9:25 RECESS
- 9:40 **Dynamic Sampling of Picoliter Volumes with Microchannel Electrophoresis and Electrochemistry**—
ANDREW G. EWING, Pennsylvania *State University* P.F. Gavin, Rose A. Clark
- 10:05 **Voltammetry in Molecular Melts**—ROYCE W. MURRAY, University of North Carolina
- 10:30 **Presentation of the 1997 Pittsburgh Analytical Chemistry Award** to R. Mark Wightman by Rita M. Windisch, Chairman, Society for Analytical Chemists of Pittsburgh
- 10:35 **Award Address: Chemical Analysis In Microdomains**—R. MARK WIGHTMAN, University of North Carolina
[...Chemical Analysis, Mark??!??]

Other Pittcon '97 Symposia of Electrochemical Interest

Monday, March 17:

Electrochemistry: Sensors
Arranged by William R. Sharpe (Clarion University of Pennsylvania)

SYMPOSIUM-Electrochemical Bioanalysis
Arranged by Edmond F. Bowden (North Carolina State University)

Electrochemistry: Modified Electrodes
Arranged by Vasile V. Cosofret (University of North Carolina)

Tuesday, March 18:

Electrochemistry: Advances in Instrumentation
Arranged by Leonidas G. Bachas (University of Kentucky)
[In direct competition, alas, with *the* Award Symposium honoring *SEAC's* President-Elect, Mark Wightman]

Electrochemistry: Microelectrodes
Arranged by Marc D. Porter (Iowa State University)

Wednesday, March 19:

SYMPOSIUM-Electrochemistry at Truly Nanoscopic Electrodes
Arranged by Charles R. Martin (Colorado State University)

Be sure to check out the work of some of **SEAC's** Student Members who will be presenting posters at Pittcon '97 on Wednesday afternoon.

Posters-Electrochemistry

- (571 P) **Ion-Exclusion Chromatography with Electrospray Mass Spectrometry for Identification of Carboxylic Acids Generated During Electrochemical Incineration of Aromatic Compounds**—LINDA L. HOUK, *Iowa State University*, Steven K. Johnson, R. Sam Houk, Dennis C. Johnson
- (572P) **Anodic O-Transfer Reactions: Sulfur Compounds at Bi(V)-Doped β -PbO₂ Film Electrodes**—NATASHA POPOVIC, *Iowa State University*, Dennis C. Johnson
- (573P) **A Voltammetric Study of the Electrocatalytic Reduction of NO₃⁻ at Cu-Cd Electrodes**—DEBORAH SCHLAGEL, *Iowa State University*, Dennis C. Johnson

- (574P) **Integrated Voltammetric Detection at Gold Electrodes for Biogenic Amines in Complex Mixtures Separated by Liquid Chromatography**-JOHN HOEKSTRA, *Iowa State University*, Dennis C. Johnson
- (575P) **Application of Integrated Voltammetric Detection at Gold Microelectrodes for Biologically Significant Sulfur-Containing Amino Acids and Small Peptides**-MATTHEW JOHLL, *Iowa State University*, Dennis C. Johnson
- (576P) **A New Catalytic Material for the Electrochemical Incineration of Aromatic Compounds**—JIANREN FENG, *Iowa State University*, Linda L. Houk, Dennis C. Johnson
- (577P) **Activation of Titanium Electrodes for Voltammetric Detection of Oxygen and Hydrogen Peroxide in Alkaline Media**-ROBERT DEVALK, *Iowa State University*, Theo Clark, Dennis C. Johnson
- (578P) **Contribution of Reductive Desorption for Maintenance of Electrode Activity in Pulsed Electrochemical Detection of Carbohydrates at Gold Electrodes**-MARK JENSEN, *Iowa State University*, Dennis C. Johnson
- (579P) **The Creation of Redox-Transformable Stationary Phases for Electrochemically Modulated Liquid Chromatography (EMLC)**—BIN LIN, *Iowa State University*, Jennifer A. Harnisch, Marc D. Porter, Robert J. Angelici
- (580P) **Bulk Acoustic Wave Device for Optical Sensing**—LI DENG, *Iowa State University* Guojun Liu, Robert J. Lipert, Marc D. Porter
- (581 P) **Electrochemical Characterizations of the Effect of Substrate Morphology on the Formation, Interfacial, and Structural Properties of Spontaneously Adsorbed Alkanethiolate Monolayers at Gold**-GARRY B. DAWSON, *Iowa State University* Chuan-Jian Zhong, Marc D. Porter
- (582P) **A Study of a General Covalent Immobilization Scheme for Amine-Containing Molecules on Gold Surfaces**-JEREMY RKENSETH, *Iowa State University*, Vivian W. Jones, Marc D. Porter
- (583P) **Surface Enhanced Raman Spectroscopy of 4-Mercaptobenzoic Acid Monolayers Adsorbed on a Silver Substrate**—STEPHANIE L. SYVERSON, *Iowa State University*, Robert J. Lipert, Marc D. Porter
- (584P) **Electrochemical Investigation of Impregnated Biomolecules in a Xerogel Matrix**-JAMES B. LAUGHLIN, *Miami University*, Veronica M. Jones, James A. Cox
- (585P) **Uptake Kinetics in the Human Norepinephrine Transporter by HPLC with Electrochemical Detection**-KRISTIN M. MARANO, *Emory University*, Joseph B. Justice Jr.
- (586P) **Kinetics of Catecholamine Transporters by Rotating Disk Electrode Voltammetry**-KRISSTINA DANEK, *Emory University*, Joseph B. Justice Jr.
- (587P) **Study on Catalytic Kinetic Potentiometry: Determination of Trace Copper with the System of Potassium Bromate and Iodide**-BINGYAO SUN, *Zhengzhou University*, Xinxin Zhang
- (588P) **Stripping Square-Wave Voltammetric Determination of Cobalt Complexed with Hydroxynaphthol Blue**—ISABEL C.S. FRAGA, *Pontificia Universidade Católica*, Aniy K. Ohara, Percio A.M. Farias
- (589P) **Sonochemical Stripping Analysis: Thermal Deposition of Metal Particles onto Electrodes**-LOUIS A. COURY JR., *Duke University* Benjamin Bousert, Nanette A. Madigan
- (590P) **Inexpensive, Easy to Use and Portable Electrochemical Monitor and Disposable Sensors for Teaching, Research or Testing**-MAREK WOJCIECHOWSKI, *AndCare, Inc.*, Fred Ebeling, Najih Naser, Steven Wegner, Robert W. Henkens, John P.O'Daly
- (591 P) **Mechanistic Study of the Electrochemical Reaction of Glucose at the Silver Oxide Electrode**-JAMES M. DEMOTT JR., *Massachusetts College of Pharmacy & Allied Health Services*, Edwin G.E. Jahngen, Terrence P. Tougas

- (592P) **Nitrogen Atom Transfer Reactions of Nitridorhenium and Nitridomoiybdenum Porphyrins**—CHENG TONG, Georgia *Institute of Technology*, L.A. Bottomiey
- (593P) **identification of Drug Compounds from Their Mixture by Voltammetric Techniques**—ASMITA KANE, *Institute of Science, Nagpur*, R.B. Kharat
- (594P) **Measurements of Nanocrystals immobilized in Polymer Films on Electrode Surfaces**—MARK J. GARWATOSKI, Duke *University*, Lara I. Halaoui, Louis A. Coury Jr.
- (595P) **Electrochemistry of Three-Dimensional Monolayers: Alkanethioate Stabilized Gold Cluster Compounds**—ROYCHELLE S. INGRAM, *University of North Carolina*, Michael Hostetler, Royce W. Murray
- (596P) **A Conductometric Approach to the Analyses of Composition and Structure of a Chromium Glycine Complex**—WILLIAM F. MURRAY, *The American University*
- (597P) **Electrolytic Behavior of Alkali-Metal iodide In 1,2-Ethandiol Solutions**—L. TASSI, *University of Modena*, G.C. Franchini, A. Marchetti, C. Preti

Thursday March 20:

SYMPOSIUM-Electrochemical Modulated Liquid Chromatography: A Marriage of Liquid Chromatography and Electrochemistry

Arranged by Marc D. Porter (Iowa State University)

Electrochemistry: Applications of Voltammetry

Arranged by Johannes F. Coetzee (University of Pittsburgh)

Sensors with Membranes or Electrode Coatings

Arranged by Adrian C. Michael (University of Pittsburgh)

Pittcon Envy?

The success of SEAC and Pittcon in highlighting electroanalytical science has not gone unnoticed. For the 35th Annual Eastern Analytical Symposium, held November 17-22, 1996, Cindy Lundgren (DuPont) was asked to organize a topical symposium in electrochemistry. Anticipating President McCreery's charge to SEAC members to consider a broader scope of electrochemistry in electroanalytical chemistry, Cindy organized her symposium on "Electrochemical Characterization of Catalyst Materials". Five talks were held ranging from characterization of catalysts of relevance in hydrogen/oxygen and direct methanol fuel cells [Rolison/Swider (Naval Research Laboratory); Mukerjee/McBreen (Brookhaven National Laboratory); Reddington/Mallouk (Penn State)/Smotkin/Pu/Ley (IIT)] to a kinetic study of electrosyntheses with powdered Raney nickel catalyst [Pintauro/Anantharaman (Tulane)] to electropolymerized molecular assemblies based on ruthenium polypyridyl complexes [Moss/Meyer (UNC)]. Although the audience was small, the talks generated excellent discussion. This latter observation, small audience = good discussion, has been observed at other scientific meetings as well. Are the big meetings great primarily to schmooze, while the limited-attendance meetings (where limited is much smaller than even Gordon Research Conferences) are better for thorough scientific discussions? I will kvetch about this further in the future.

Reminders to the SEAC Members

from Joe Maloy:

As is our recent custom, we will not have a booth at Pittcon '97. The dissemination of SEAC information will take place in the vicinity of the meeting rooms where the electroanalytical papers will be presented. Please look for our brochures and assist in their distribution. Your help will be greatly appreciated, particularly at the Reilly Award Symposium.

Starting this year all MEMBERSHIP RENEWALS and CONTINUING DUES PAYMENTS should be sent to Joe Maloy [Department of Chemistry, Seton Hall University, South Orange, NJ 07079, USA]. SEAC Membership Chairman, Andy Ewing [Department of Chemistry, Pennsylvania State University, University Park, PA 16802, USA] will continue to receive all NEW MEMBERSHIP APPLICATIONS and INITIAL DUES PAYMENTS. Any new members recruited by current members should send their completed applications directly to Andy.

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On the Faraday Front...

Should airplanes come equipped with Faraday cages where the smoking sections used to be? In an article entitled: "Business Class-First Class-or the Faraday Cage?", Penn **Jillette** provides a comedic rant about the FAA's concern with electronic gadgetry aboard commercial aircraft. This is one man who is not giving up his laptop. Check it out on the Web at <http://www.sincity.com/penn-n-teller/pcc/airplane/html>.

From the Mailbag

Harry Mark (University of Cincinnati) writes to announce that Springer Publishers are starting a new journal (with the first issue to be published in July 1997) entitled Journal of Solid-State Electrochemistry (JOSSEC). One aim of this journal will be to provide a platform for the solid-state chemist, physicist, and electrochemist to exchange information, concepts, and results of experimental work. The Journal focuses on the following fields:

- mechanisms of solid-state electrochemical reactions, related experimental studies, and theoretical modeling
- electrochemical batteries, accumulators, and fuel cells
- electrochemical mineral leaching
- ion and electron transport in solid materials and polymers
- electrocatalysis
- corrosion of solid materials
- solid-state electroanalysis
- electrochemical machining of materials

Anyone who has any interest can obtain a brochure for the Journal defining the scope, philosophy, format, etc. from:

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*It is always good to hear from Harry-especially as he divined the theme of **this** issue: interdisciplinary crosstalk!*