

# SEAC NEWSLETTER

Volume 5, No. 2, April 1988

## The Society for Electroanalytical Chemistry

### *President's Message*

This year's major SEAC event is now behind us. It was a great pleasure to be able to present Professor Royce Murray with the Charles N. Reilley Award on February 24th and to be able to attend the excellent Award Symposium organized by Professor Richard McCreery of Ohio State. This was the 5th Reilley Award Symposium. As is the custom, the attendance at this meeting was greater than for any other electroanalytical symposium I have attended over the last twenty years. When the Pittsburgh Conference provides rooms with 350+ seats, it's 'amazing how they get filled. Even during the regular electrochemistry program of submitted talks, there were frequently 50-80 attendees. Well over a hundred people stopped by the SEAC Reception at the Sheraton New Orleans on Tuesday evening. These are very big numbers! At least they appear to be if you're not a spectroscopist or chromatographer.

Your Board met during the New Orleans meeting and we also were able to squeeze in our proforma Annual Meeting after the Reilley Symposium. The ByLaws changes were overwhelmingly approved by the membership. We've got a good slate of candidates for the first election of officers by the membership this Spring. SEAC appears to be off to a good start. We are working to expand the Newsletter and to plan an even better program for the 1989 Pittsburgh Conference in Atlanta (mark your calendar for March 6-10, 1989).

The one serious challenge we face is our relatively small membership of under 400. We need more participation to sustain SEAC and increase its influence. It's especially disconcerting that many previous members have "dropped out." When asked why, several told me they just never thought about it or simply "forgot" to renew their dues. It's rare these days that a professional group would have dues of \$15 (or \$7.50 for students). Other groups I belong to average \$90 plus per year and some are twice that. It's true that SEAC doesn't lobby Congress or support a publishing empire. We're just a group of people who are enthused about the electrode-solution interface and the great things you can do with it.

A membership form is enclosed with this newsletter. Please xerox copies of this form for your colleagues and encourage their participation. If every member would find one additional member, we would be in excellent shape!

*Peter T. Kissinger*

### *EDITORIAL*

Since my appointment as editor of the SEAC Newsletter, I have given some thought (no wisecracks, please) to changes I should like to propose for this vital (from the Latin *vitalis* "life" which indeed a newsletter is to any growing organization) publication.

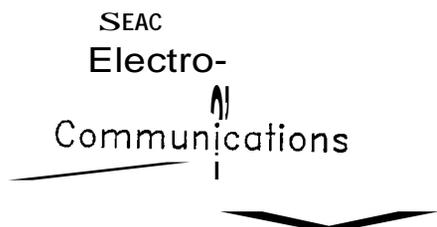
First, I agree wholeheartedly with Pete Kissinger's suggestion that the frequency of publication should be defined and the schedule closely adhered to, e.g., quarterly or bimonthly, instead of the present random process. On a trial basis, we are going to shoot for the bimonthly frequency and see if it is feasible. This may result in some issues being rather slim, but if everyone pitches in with items of interest, I'm sure it will be informative and maybe we can even have some fun.

Next, I propose that some or all of the following features be included in future issues of the newsletter:

- SEAC President's message;
- Editorial;
- Society News (Board of Directors' activities, financial reports, etc.);
- News & Views (Faraday Farbuncle Forum, letters to the editor);
- Member Notes (awards, job changes, indictments, etc.);
- Meeting Notices (e.g., calendar and programs) and Summaries;
- Reilley Fund contributors:
- New Members (plus an annual membership list);
- New Publications & Book Reviews:
- Employment Opportunities;
- Invited Articles (biographies, scientific advances, historical perspectives, etc.);
- Electrivia (puzzles, cartoons, unexplained phenomena, etc.).

Finally, I propose that at some future time we consider a name and logo change for the newsletter. SEAC NEWSLETTER, while cutting right to the quick, lacks something. Illustrated below, I have a mockup of one new possibility. As you can see, I have very cleverly combined the SEAC acronym with the proposed name, "Electra-Analytical Communications." As far as the logo itself is concerned, I feel that some streamlining is in order. Our original logo is rather "busy" and, while allegorically interesting, lacks, shall we say, scientific accuracy. (I tried plugging a beaker of solution into the 100V outlet and, while the effect was spectacular, the result was less than quantitative!) Another possibility is to initiate a name and

logo contest , now **doesn't that** sound like fun? I am open to suggestions (constructive ) on this idea. Certainly, instead of the cyclic voltammogram I have shown, something jazzier such as a 3-D chronovoltammogram (a la the Osteryoungs) might be a better choice.



So much for my ideas. I'm open to any other suggestions you may have to revitalize OUR newsletter. Please write or phone me with your ideas.

Dick Durst  
Chemistry A-1 13  
National Bureau of Standards  
Gaithersburg, MD 20899  
(301 975-3118)

Remember: There is no such **thing** as a dumb idea (actually there is, but don't worry, I'll never tell).

Seriously, it is one thing to propose changes and quite another to implement them. I will need the support of everyone, from the Society President on down, to make this newsletter the heart (also **the** eyes, ears, and mouth) of our Society. I hope you will accept the challenge and participate by providing material for the newsletter.

### SEAC Newsletter Principles

(Pete Kissinger)

1. Frequency is more important than length. One side of one page on a schedule beats ten pages now and then. We need a calendar of publication dates and a calendar of deadlines.
2. Quality of content is more important than length.
3. In any professional newsletter of reasonable frequency (4-6 times/year) you need 3-4 regular (every issue) contributors and a dozen or so irregular contributors. Ideally some contributors would be responsible for specific coverage [e.g., government grants issued or **RFP's**; EC in Japan; EC in Germany; EC in the UK; meetings (just past or upcoming); postdoctoral, industrial or academic openings; moves and promotions; technical controversies, etc.] A lot of good material is found by clipping various sources such as meeting brochures, trade magazines, post-dot announcement letters, and even some newspapers. The idea of a "trade association" newsletter is to improve the signal-to-noise ratio on material of specific interest to the readership. A lot of it can be ferreted out of other things ... often embellished with some appropriate additional commentary.
4. We need people to just keep a half-dozen envelopes on their desks addressed to Dick Durst. When they see something of interest, they scribble a thought or two on it and stuff a **xerox** in an envelope and off it goes. Dick will filter, add his

own thoughts, or invite others to comment. The process doesn't take much work, it just takes people who THINK IN TERMS OF THE NEWSLETTER whenever an appropriate item crosses their desk or an appropriate thought zooms through their neurons.

## 1988 REILLEY AWARDEE: ROYCE W. MURRAY

Royce W. Murray of the University of North Carolina is the fifth recipient of the C.N. Reilley Award in Electroanalytical Chemistry. Professor Murray is being recognized for his extensive achievements in the area of modified electrodes, particularly as **amperometric** chemical **sensors**.

Royce Murray was born in Birmingham, Alabama in 1937. He received a B.S. degree in Chemistry from Birmingham Southern College in 1957 and his Ph.D. in analytical chemistry from Northwestern University in 1960, under the supervision of Professor Richard C. Bowers. He joined the faculty at the University of North Carolina as Instructor in 1960, became Professor in 1969, and **Kenan** Professor in 1980. Professor Murray has served his institution as Chemistry Department Acting Chair (1970-71), Vice Chair (1971-75) and Chairman (1980-85), and is presently Natural Science Division Chairman.

Professor Murray's research interests have included electroanalytical techniques and **their** theoretical principles, the chemistry, **molecular** design, and analysis of surfaces and of **electrochemically** reactive polymers, mass and electron transport phenomena in thin films, electrocatalysis, macromolecular electronics, and electrode polymer **film microstructures**. He has published about 180 research papers in these areas. Early in his career he co-authored a chapter on electroanalytical methods with C. N. Reilley in the "Treatise on Analytical Chemistry." Professor Murray's active contributions to the chemically modified electrode field have been supported by the National Science Foundation and the Office of Naval Research. His most recent research involves applying polymer **film microstructures** to electron transport and solid state **voltammetry** in rigid and semi-rigid polymeric media.

Professor Murray has been the recipient of Sloan and Guggenheim Fellowships, the 1987 North Carolina Distinguished Chemistry Award of the North Carolina Institute of Chemists, and the 1987 Carl Wagner Memorial Award of the Electrochemical Society. He has been colleague to 51 Ph.D. and postgraduate students, 16 of whom themselves now hold academic appointments. He has been active in national organizations including serving as a Divisional Editor for the Journal of the Electrochemical Society, as NSF Program Director for Chemical Analysis (1971-72), on the Board of Directors of the Society for Electroanalytical Chemistry, and on Advisory Panels for the National Science Foundation, Army Office of Research, Air Force Office of **Research**, North Carolina Energy Institute, and the journal, Analytical Chemistry. He is presently a member of the American Chemical Society Committee on Publications and is Program Coordinator for the ACS Division of Analytical Chemistry.

(Royce has agreed to reflect for us in a future issue of the Newsletter. - Editor)

*What call should you*

# THE REILLEY AWARD

The Reilley Award is an international cash prize for contributions to electroanalytical chemistry. Sponsored currently by BAS, Inc. and administered by SEAC, the Reilley Award annually recognizes an active researcher who has made a major contribution to the theory, instrumentation, or applications of electroanalysis.

The Award currently consists of a commemorative plaque and an honorarium of \$1000.00, and is presented at the Pittsburgh Conference and Exposition on Analytical Chemistry and Applied Spectroscopy. In conjunction with the presentation, SEAC also arranges an Award Symposium on behalf of the Pittsburgh Conference. An informal reception is held in honor of the Awardee during the week of the Conference.

Recipients of the Reilley Award are selected by the Reilley Award Committee of the Society for Electroanalytical Chemistry which has full responsibility for the administration of the Award. Members of the Award Committee are appointed by the President of SEAC from a list of candidates that have been approved by the Board of Directors of the Society. Except for the Chairman (who handles all correspondence), the members of the Award Committee serve anonymously.

## PREVIOUS AWARDEES

1984 Allen J. Bard  
University of Texas

1985 Ralph N. Adams  
University of Kansas

1986 Fred C. Anson  
California Institute of Technology

1987 Robert A. Osteryoung  
SUNY Buffalo

## NOMINATIONS SOLICITED

Nominations for the 1989 Reilley Award are hereby solicited. Such nominations should include the individual's *curriculum vitae*, a description of his or her significant contributions to electroanalytical chemistry, and at least two letters of support. 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 supporting information or a renomination is welcome at any time, but the decision on the 1989 Award shall be based upon the material which is available to the Award Committee on May 1, 1988. While there are many viable candidates, it is a mistake to assume that your favorite choice has, in fact, been nominated. Such an assumption might keep the most deserving candidates from consideration by the Committee.

Nominations for the 1989 Reilley Award may be sent to the current keeper of the files:

Professor Richard P. Buck, Chairman  
SEAC-Reilley Award Committee  
Department of Chemistry  
University of North Carolina  
Chapel Hill, NC 27514

## REILLEY AWARD ENDOWMENT FUND

The SEAC Board of Directors has established an Endowment Fund in order to perpetuate the C. N. Reilley Award.

BAS has made a commitment to support the Reilley Award for a period of ten years. Since the time of its incorporation, SEAC has sought to endow the Award through voluntary contributions. It is the goal of the Board to have at least \$15,000 in trust to support the Award at the time this commitment expires in 1993. Voluntary contributions to the Endowment Fund have already exceeded half of this amount.

Persons and organizations wishing to make contributions towards the Reilley Award Endowment Fund are encouraged to do so. Proceeds shall be deposited in an interest-bearing account and neither the principal nor the accumulated interest shall be withdrawn during the initial ten years of BAS sponsorship.

Non-anonymous contributions will be acknowledged in the SEAC Newsletter. Checks made payable to SEAC and bearing the notation "Reilley Award Endowment Fund" should be sent directly to the SEAC Treasurer:

Before July 1: Larry R. Faulkner Department of Chemistry University of Illinois 505 S. Mathews Avenue Urbana, IL 61801	After July 1: Franklin Schultz Department of Chemistry IUPUI 1125 E. 38th Street Indianapolis, IN 46223
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## MEETING ANNOUNCEMENTS

### Meeting Summary

The Seventh Australian Electrochemistry Conference (7AEC) was held February 14-19, 1988, at the University of New South Wales, Sydney, Australia. The theme of this conference was Current and Potential Applications in Electrochemistry and the conference highlight was the presentation of the Bruno Breyer Memorial Lecture for 1988 by Professor Martin Fleishmann.

A Proceedings volume of the 7AEC was edited by Professor T. Tran and M. Skyllas-Kazacos and distributed at the meeting. Over 125 papers and posters were presented at the meeting covering contemporary electrochemical subjects ranging from energy storage, new materials, several topics in metallurgy, sensors and micro-electrodes, electroanalytical methods, electrochemical synthesis, photoelectrochemistry and electron transfer mechanisms. Conferees from the USA included Drs. J. Broadhead (AT&T, Bell Labs), K. K. Cheng (University of Missouri at Kansas City), Diuna Cipris (Allied Signal), Jerry Cucci (Rosemount Inc.), Art Diaz (IBM Almaden Research Center), Jim Evans (University of California at Berkeley), Fred Hawkrige (Virginia Commonwealth University), Jan Miller

(University of Utah), John O'M. Bockris (Texas A & M), Bob Philp (University of South Carolina), Gopal Rao (Air Force Academy), Bill Spindler (Consultant), Dwight Sweigatt (Brown University), Joe Wang (New Mexico State University) and Henry White (University of Minnesota).

The 7AEC was scientifically stimulating, the conference facilities were excellent and the hospitality was superb. Some even learned a bit about cricket and enjoyed some very competitive games played on the UNSW campus during the off hours of the conference.

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*Fred Hawkrige*

### Electroanalytical Chemistry Is Flourishing: F.A.C.S.S. or FICTION?

Pete Kissinger told me that I agreed to head up the electroanalytical symposia at the 1989 F.A.C.S.S. Meeting because all assistant professors are suckers. (He also said "that's okay, it's good for you.") F.A.C.S.S. stands for Federation of Analytical Chemistry (that's us) and Spectroscopic Societies. It seems that the spectroscopists are very pleased with this meeting, but despite super-human efforts on the part of electroanalytical organizers to set up good programs, the electrochemical audience is usually quite sparse. Momentum is **building** for a substantial presence of electroanalytical **types** at F.A.C.S.S.; the latest evidence of this is three days of exciting electroanalytical symposia planned by Jim Cox and Vernon Neff for this year's meeting in Boston (October 30 - November 4, 1988).

What would you like to see at the 1989 meeting? We have an opportunity to use a Gordon-Conference-like format that allows for longer talks with longer discussion periods (e.g., **30-minute talks** with **15** minutes for discussion. Other possibilities include a panel discussion (topic?), a symposium on the reaching of electrochemistry, or a meeting- **style** short course (topic?). We could bring in speakers from areas outside electroanalytical chemistry to broaden our views (e.g., pharmacy, medicine, process control, environmental control, etc.).

At the moment, several topics for symposia are on the drawing board: electroanalysis in gases, solids, **fluidized** beds, and supercritical fluids; electrochemistry in membrane-mimetic environments: membranes, Langmuir-Blodgett films, **vessicles**, **micelles**, and microemulsions; miniaturization of electrochemical sensors and detectors for **in vivo** and instrumental use, bioelectroanalysis and LCEC; mathematical modeling techniques; and modified and composite electrodes.

Here's your chance to help design the content and format of a meeting without doing any work! Please give me a **call** or send a note to let me know what it would take to get you to the F.A.C.S.S. Meeting in Chicago, October 1-6, 1989. I'll be looking for help with organizing symposia and chairing sessions as the Meeting approaches. You may also make your opinions known by stopping me in the halls at the Atlanta ECS Meeting Monday through Wednesday, or the Toronto ACS Meeting, or of course the Boston F.A.C.S.S. Meeting. My address is: Brenda R. Shaw, Department of Chemistry U-60, 215 Glenbrook Road, **Storrs**, CT 06268, phone (203) 486-3052 or (203) **486-** 2012 to leave a message.

## New Gordon Research Conference

### BIOANALYTICAL SENSORS

#### June 13-17, 1988

Colby-Sawyer College  
New London, NH  
R. A. Durst, Chairman  
T. Kuwana, Vice Chairman

#### Monday, June 13:

J. C. Weaver, MIT-Harvard, "Basic Issues in Biosensing"

M. Thompson, U. Toronto, "Molecular Recognition to Transduction Problems in the Development of Biosensors"

W. J. Albery, Imperial College, "Novel Enzyme Electrodes"

M. R. Neuman, Case W.R.U., "Biomedical Sensors -- Present and Future"

M. Aizawa, Tokyo Inst. of Tech., "Immunosensors"

#### Tuesday, June 14:

E. Pungor, Technical U. - Budapest, "Potassium Electrode Measurements In and On the Brain"

M. Meyerhoff, U. Michigan, "Biosensing with Polymeric Membrane Electrodes"

R. Kobos, DuPont, "Potentiometric Biosensing Systems"

A. **Brajter-Toth**, IJ. Florida, "Strategies for Amperometric Detection of Biomolecules"

Y. Degani, AT&T Bell Labs, "Amperometric Sensors Based on Microengineered **Redox** Enzymes"

#### Wednesday, June 15:

Y. Umezawa, Hokkaido U., "Ion-Channel Sensors"

E. K. Michaelis, U. Kansas, "Strategies for a Glutamate Receptor - Ion Channel Based Biosensor"

F. S. Ligler, NRL, "Integration of Synthetic Membranes containing Ion Channels into Biosensors"

G. J. Bastiaans, Integr. Chem. Sensors, "Surface Acoustic Wave Biosensors, Realization of their Potential"

J. Janata, U. Utah, "Chemical and Magnetic Field Resonance Modulation of Membranes"

#### Thursday, June 18:

W. R. Seitz, U. New Hampshire, "New Indicator Phases for Optical Sensors"

M. A. Arnold, U. Iowa, "Recent Advances in the Development of Biocatalyst Based Fiber Optic Biosensing Probes"

B. Bluestein, Ciba-Coming Diagnostics, "Characteristics and Development of Optical Evanescent Wave **Immuno**sensors for Quantitative Measurement of Clinical **Analytes**"

L. B. **Wingard**, Jr., U. Pittsburgh, "Some Thoughts on Neuroreceptor Based Biosensors"

### Friday, June 17:

R. M. Wightman, Indiana U., "In-Vivo Determination of **Neurotransmitters**"

A. L. Plant, NBS, "Liposome-Enhanced Flow Injection **Im**niunoanalysis"

## MEETING ANNOUNCEMENTS

1989 International Symposium on "Charge and Field Effects in Biosystems." to be held at Virginia Commonwealth University, Richmond, Virginia USA, during the week of June 4, 1989. Topics to be covered include:

- \* electron transport in biological systems, including solid state theoretical and experimental approaches to charge and energy transfer in **biomacromolecular** and intact **cellular** systems
- \* ion **and** electron **transport** properties of biological and **artificial** membranes
- \* effect of electrochemical processes and magnetic fields on biological systems
- \* photo-induced bioelectrochemical processes
- \* practical applications of bioelectrochemical technology

First circular to be available June, 1988. For information, write or **call** Professor Milton J. **Allen**, Department of Chemistry, Virginia Commonwealth University, Box 2006, Richmond, Virginia USA, (804) 367-1298.

J. Heyrovsky Centennial Congress on Polarography organized jointly with 41st ISE Meeting by the J. Heyrovsky Institute of Physical **Chemistry** and Electrochemistry and sponsored by the Czechoslovak Academy of Sciences to commemorate the hundredth anniversary of the birth of Prof. J. Heyrovsky, discoverer of **polarography** and founder of the Institute. The 40th anniversary of this Institute also **falls** in 1990.

New developments of polarography and other electrochemical methods and their applications to various fields of human activities will be discussed.

The major topics of the Congress will be:

1. Polarography and other **electroanalytical** methods in industrial, biomedical and **environmental** applications
2. Molecular electrochemistry

**Further** topics will be discussed:

3. Theory of charge transfer
4. Nonmetallic electrodes
5. Energy conversion and storage

Nine plenary lectures, several microsymbiosia and about 250 scientific papers in the form of posters are foreseen. In addition, round-table discussions on polarography and other electrochemical methods and their applications are planned. The definite topics of the round-table discussions will be **fixed** according to the view of the majority of the participants.

All correspondence concerning the Congress should be sent to the Secretariat of the J. Heyrovsky Centennial Congress on Polarography and **41st** ISE Meeting, J. Heyrovsky **Institute** of Physical Chemistry and Electrochemistry, Czechoslovak Academy of Sciences, Dolejskova 3, 182 23 Prague 8, **Czechoslovakia**.

N.B.: Please note the change of the address of the Institute.

### NEW MEMBERS

**Balcerzak**, John J., Univ. of Maryland Baltimore County, 1/24/88

Deshmukh, **Bala**, Univ. of Pittsburgh, 2/22/88

Lin, Meng-Shan, New Mexico State Univ., 2/22/88

**Inisides**, Mark David, Wollongong Univ., NSW, Aust., 2/28/88

Carpenter, Alexis, McGill Univ., Quebec, Canada, 2/28/88

Deputy, Andrew, Ohio State Univ., 2/28/88

Bowling, Robert, Ohio State Univ., 2/28/88

Josowicz, **Mira**, Univ. of Bundeswehr Munich, FRG, 2/28/88

Johnson, Duane, Corning Glass Works, 2/28/88

Glass, Robert, Lawrence **Livermore** Natl. Lab., 2/28/88

Blank, C. **LeRoy**, Univ. of Oklahoma, 2/29/88

**Clough**, Amy, Ohio State Univ., 3/1/88

Getek, Timothy, Natl. Ctr. Toxicological Res., 3/1/88

**LaCourse**, William R., Iowa State Univ., 3/1/88

**Milner**, David, **Isco**, Inc., 3/2/88

Harrington, Michael, Ohio State Univ., 3/7/88

**Szpylka**, John, Ohio State Univ., 3/8/88

Cook, Ronald, **Eltron** Research Inc., 3/8/88

Serr, Barbara, Colorado State Univ., 3/10/88

Baldy, Chris, Colorado State Univ., 3/10/88

Sprinkle, Ronald, Colorado State Univ., 3/10/88

Welcome to our newest members. A special welcome to our new international members and congratulations to Ohio State for its excellent turnout followed closely by Colorado State. It's great to see graduate students taking an interest in the Society and we look forward to their active participation.

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Quote of the Week at PittCon:

A lovely young lady, Susan Arellano, was introduced by Bob Osteryoung as his daughter. When asked if this were true, she replied, "Would I be seen with this man, if he weren't my father?" (I'll never cease to be amazed by genetics -- Editor.)

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**NEW BOOKS:**

Bioelectroanalysis, I; 1st Symposium held at Matrafured, Hungary, Oct. 6-8, 1986, E. Pungor, ed., Akademiai Kiado, Budapest, xii + 434 pp., 1987.

Biosensors International Workshop 1987; Society for Biotechnology Research held in Braunschweig, FRG, June, 1987, R. D. Schmid, ed., VCH Publishers, New York, 346 pp., 1987.

**NEW JOURNAL:**

Joe Wang wrote to inform us of a new journal for which he is the Editor-in-Chief. ELECTROANALYSIS will begin publication in October, 1988. Joe is looking for high-quality papers which he says will receive a fair and prompt review, rapid publication, and 25 free reprints.

Electroanalysis is an international journal which contains original research papers, short papers, communications and reviews concerned with the development and applications of electroanalytical techniques. The scope includes advances in analytical voltammetry and potentiometry, new electrochemical sensors and detection schemes, and practical applications in the biomedical, environmental, industrial, pharmaceutical, and food fields. Given the very rapid pace of developments in electroanalysis, the journal will act as a vital communication medium between research scientists, and will serve as a bridge between the research laboratory and the routine analytical laboratory.

Electroanalysis is published bimonthly, one volume per year, six issues to each volume. The journal frequently includes information of interest to analytical electrochemists, including forthcoming meetings, **book** reviews and equipment news.

**EMPLOYMENT OPPORTUNITIES**

THREE POSTDOCTORAL RESEARCH POSITIONS:

1. Immediate opening in electrochemistry of **surface-modified** electrodes. Work will be concerned with biosensors and hybrid **biological/electrochemical** systems. The applicant should have experience in electrochemistry and in simple synthesis.

2. Starting September, 1988, an opening in **photochemistry/photophysics/catalysis** of semiconductor particles and transition metal complexes. Experience in photochemistry, inorganic synthesis, and/or electrochemistry would be advantageous.

3. Starting **January**, 1989, an opening in photoelectrochemistry of surface-modified electrodes and conductive polymers. Application3 will be **considered** in the fields of electrochemistry, semiconductor physics, and polymer science.

The appointments will be for one year with the possibility of extension. The minimum starting **salary** will be \$23,000. Send **curriculum vitae** and names of references to Dr. Arthur J. Frank, Photoconversion Research Branch, Solar Energy Research Institute, 1617 Cole Boulevard, Golden, Colorado 80401. Equal **Opportunity/Affirmative** Action Employer.

POSTDOCTORAL POSITIONS IN MATERIALS ELECTRO-CHEMISTRY - available immediately to study ion and electron transport in polymer **films** and/or electrochemistry at electrodes of molecular **dimensions**. Send vitae plus three letters of recommendation to: Dr. C. R. Martin, Department of Chemistry, Texas A&M University, College Station, TX 77843-3255.

POSTDOCTORAL POSITION AVAILABLE:

I have a postdoctoral position open for an electrochemist to explore a novel method of electrosynthesis of high- **temperature** superconducting materials from "molecular precursors." We propose a wholly new and low temperature (e.g., 25°C) synthesis of **YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub>** by first assembling a mixed-metal alkoxide cluster **YBa<sub>2</sub>Cu<sub>3</sub>(OR)<sub>n</sub>** and then converting this material to oxide by electrochemical oxidation with (it is hoped) **electrocrystallization** onto the anode.

Experience in electrochemistry, including macro-scale electrode processes and perhaps electrocrystallization, is essential. Experience in inorganic and organometallic chemistry, or in solid state chemistry are desirable, but not essential since others in my group are currently involved in the synthesis of molecular precursors. I am primarily interested in an individual who is creative and ambitious to have some impact in this rapidly developing field.

Applicants should provide me with a **vita** and publication list (or description of the thesis problem and previous research experience), along with three letters of reference. Professor Kenneth G. Caulton, Indiana University, Department of Chemistry, Chemistry Building, Bloomington, Indiana 47405.

# THE SOCIETY FOR ELECTROANALYTICAL CHEMISTRY

J. T. MALOY, SECRETARY  
DEPARTMENT OF CHEMISTRY  
SETON HALL UNIVERSITY  
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(201) 761-9031 ACADEMIC

(201) 325-8677 BUSINESS

## Minutes

### Annual Meeting of the Society

New Orleans, Louisiana

February 24, 1988

The meeting was called to order by SEAC President Peter Kissinger at 5:05. Approximately fifty Members and their guests were in attendance.

President Kissinger stressed the fact that the Annual Meeting is required by the SEAC Bylaws and by the articles of incorporation of the Society as a non-profit organization in the State of Indiana.

The President reported that the amendments to the Bylaws providing for the direct election of Officers by the Membership had been approved in toto by the Membership by a vote of 124 - 1.

These amendments having been approved, the Board has authorized the Secretary to conduct a Special Election of Officers for terms of office commencing on July 1, 1988. Nominees for Secretary and Treasurer had already been selected by the Nominating Committee; in addition, the Board decided that the current President-Elect (elected last year by the **Board**) should stand for re-election to this office by the Membership. The nominees, then, are:

For President-Elect:	Barry Miller
For Secretary:	Joseph T. Maloy
For Treasurer:	Franklin A. Schultz

The Secretary has been directed to prepare a brief biography of each of these candidates for distribution with the ballot.

The Board has appointed the following Chairmen of Standing Committees for 1988-89:

Activities:	Fred M. Hawkrige
Awards:	Richard P. Buck
Finance:	Larry R. Faulkner
Membership:	Joseph T. Maloy
Nominating:	Larry R. Faulkner

Certificates of Appreciation were awarded to retiring SEAC Board Members Janet Osteryoung and Dennis Johnson. (Prior to the Meeting, similar certificates were presented to Pittsburgh Conference President George Vassilaros and Program Chairman Mary Louise Theodore.)

President Kissinger acknowledged his appointment of Richard Durst as Editor of the SEAC Newsletter. The Board has given Durst its mandate to adopt new policies and carry out new programs to improve communication with the Members through the SEAC Newsletter.

Those Directors who have recently been elected to serve terms from 1988 to 1993 (as announced in the most recent Newsletter) were recognized by the President: James Q. Chambers, Robert J. Nowak, and William M. (Pete) Peterson.

The President urged all Members to become more aggressive in seeking new Members. The Membership Chairman informed the Members that a membership application would be sent to each current Member with the next SEAC Newsletter for recruiting purposes.

The meeting was adjourned at 5:20.

Respectfully submitted,



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Secretary