

# SEAC

## C O M M U N I C A T I O N S

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### President's Message

Following the bicentennial and widely celebrated year of Michael Faraday's birth, I am impressed looking forward to his third centennial by admiring his prowess as a scientific lecturer. It seems that Faraday in his day was nearly as widely acclaimed for the quality of his oratorical skills as a Natural Philosopher as he was for his momentous scientific discoveries. From a reprint of a collection of his writings to a colleague, Faraday says "A lecturer should appear easy and collected, undaunted and unconcerned. his **thoughts**... and his mind clear for the contemplation and description of the subject. His action should be slow, easy, and natural ... [allowing] changes of the posture of the body, ... **to** avoid the air of stiffness or sameness ... **His** whole behavior should evince a respect for his audience ... **This** is a quality that all electrochemists could admire. Faraday also says, regarding the lecturer's delivery: "The **most** prominent requisite to a lecturer, although perhaps not really the most important, is a good delivery; for though **to** all **true philosophers** science and nature will have charms innumerable in every dress, yet I am **sorry** to say that the generality of mankind cannot accompany us one short hour unless the path is strewn **with** flowers," from which I infer that even at that time many folks (as now) did not **find** the ideas of electrochemistry transparently obvious.

These notions are worth remembering in the coming centennial, and upon Faraday's **tricentennial** arrival I trust that the Society members will recollect their accomplishments as lecturers as well as counters and interpreters of electrons.

May I add my sincere congratulations **to** Steve **Feldberg**, the consummate innovator and collaborator in electrochemistry, for his Reilley Award **recognition**, and to the members of the Society who have contributed over **the** year to its success.

*Royce Murray*

### EDITORIAL

Another year has come and gone. We are a year older and perhaps a little bit wiser. The past year has certainly not been a dull one what **with** Pee-wee Herman's arrest, the recession, the Desert Storm war, the opening up of Eastern Europe, and the re-organzation of the Soviet Union into a commonwealth. Let's hope the

Doomsday Clock will now start running in reverse!

In the world of science, Bucky Balls have caught the fancy of many, including electrochemists (see the notice on the Fullerenes meeting in this issue). At this rate, these balls may supplant baseball as the national pastime. Maybe now we can forget about the embarrassment of cold fusion. On

the other hand, there is **still** a lot of **cold** fusion work going on and there may **still** be some interesting phenomena uncovered. In principle, and to Pons and Fleischmann's credit, **it** is a **fascinating concept!**

There are a number of important items in this issue (thank goodness), so be sure to read it carefully. For one, nominations are now open (and the deadline of March 15th is **approaching** rapidly) for the newly established Young Investigator Award. Besides the \$250 honorarium and the prestige of sharing the limelight at the 1993 Reilley Award Symposium, the awardee **will** get his/her name in SEAC Communications! What greater honor can there be?

Speaking of the Reilley Award Symposium, it will be held this year on Wednesday afternoon, March 11th. The program appeared in the November issue of the newsletter and by now you all have probably received the **official** PITTCON '92 program. Be sure to attend; it should be excellent. The last issue also contained an announcement about a symposium called "Back to the Future: New Horizons in Electroanalytical Methods and Materials" that Joe Maloy and John Jackovitz have arranged for Wednesday morning. They've pulled together a really good group of speakers. I'll see you there also.

On the other hand, some other of our SEAC members (even Board members and ex-officers!) have symposia for PITTCON and somehow neglected to inform the newsletter. It's not nice to forget the Demon Editor. I'll not mention any names Anna, Chuck, Janet, Rick, Mark and Mike; you know

who you are. But Just beware if you forget the next time!

Keep the cards, letters and E-mail coming, folks. There's no such thing as unimportant news. if there were, this would be a much shorter Editorial.

*Dick Dunst*

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## MINUTES

Meeting of the Membership, Chicago, Illinois, March 6, 1991

The meeting was called to order by SEAC President Barry Miller at 4:50 p.m., shortly after the last paper in the Reilley Award Symposium had been presented. There were 25 members and guests present.

The Minutes of the 1990 Annual Meeting were approved as distributed.

The Secretary announced the results of the most recent election. The following Individuals have been elected to five year terms on the Board of Directors commencing on July 1, 1991: Anna Brajter-Toth, Royce Engstrom, and Bruce Parkinson.

Certificates of Appredation were awarded to retiring SEAC Board Members Richard L. McCreery and George S. Wilson and immediate Past-President Peter T. Kissinger. Prior to the Meeting similar certificates had been presented to Pittsburgh Conference President Ernest F. Tretow and Conference Program Chairman David R. Weill iii.

The Treasurer summarized his Annual Report. The net worth of the Society now stands in excess of \$26,000 with \$16,000 deposited in the Reilley Award Endowment Fund. in view of the financial health of the Society, the Treasurer has recommended that the Reilley Award honorarium be increased to \$1,500; the Board of Directors has approved this recommendation.

The President announced the establishment of a new SEAC Young investigator Award. The first recipient of this Award will receive an honorarium of \$250 and will present a paper at the 1993 Reilley Award Symposium. Thereafter, the Award will be presented annually. Nomination procedures similar to those employed in the selection of the Reilley Awardee will be distributed well in advance of the deadline for the 1993 Award (March 15, 1992).

The President requested assistance in recruiting new members and increasing the number of Life Members. Towards this end, the president announced that the Board had approved the publication of a SEAC Membership Directory.

The President announced the following Standing Committee Chairmen for 1991-92:

Activities: Mark E. Meyerhoff

Awards: Fred M. Hawkrigde

Finance: Franklin A Schultz

Membershp: Joseph T. Maloy

Nominating: James Q. Chambers

The meeting was adjourned at 5:05 p.m.

Respectfully submitted,

*Joseph T. Maloy, Secretary*

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## SEAC YOUNG INVESTIGATOR AWARD

Beginning In 1993, The Society of Electroanalytical Chemists (SEAC) will recognize Individual scientists In the early stages of their careers who have made outstanding contributions to the field of electroanalytical chemistry. Such recognition will take the form of a yearly SEAC Young investigator Award. The award will consist of a plaque, a \$250 honorarium, plus some financial assistance for travel to the Pittsburgh Conference. The presentation of the award will be made yearly within the Reilley Award Symposium at the Pittsburgh Conference, and the awardee will be invited to give the final talk at this Symposium. Equal consideration will be given to young academic, government and industrial scientists.

Potential redplents of the SEAC Young investigator Award must be within 7 years of obtaining their Ph.D. or other terminal degree, and under 35 years of age at the time of nomination. Candidates for the award can be nominated by any member of SEAC. Nominations will be soiidted by the SEAC Awards Committee, and must be received by March 15 of each year (beginning in 1992). The nomination packet should include a letter describing the significant contributions made by the candidate, an up-dated curriculum vitae, and at least one supporting letter. Once nominated, candidates will be considered for a period of three years without re-nomination, although additional supporting information will

be welcome at any time during this period. Nomination files carried over from year to year will automatically be removed from consideration once the candidate reaches the age of 35. All nomlnating materials should be sent to:

Professor Fred Hawkrigde  
SEAC Awards Committee  
Department of Chemistry  
Vlrglnla Commonwealth University  
Richmond, VA 23296

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## NEW MEMBERS

**Teresa Golden,**

University of Cincinnati, 5/17

**Douglas J. Stuckenschneider,**

BAS, 5/23

**Chen-Chan Hsueh,**

University of Florida, 5/6

**Craig S. Bruntiett,**

BAS, 5/23

**Claudia B. Cohen,**

University of Pittsburg, 7/1

**Joseph H. Aldstadt,**

Ohio University, 7/5

**Bernd Speiser,**

Universitat Tublngen, 7/1

**Robert O. Rigney,**

University of Cincinnati, 7/23

**Joseph Harland,**

J & W Sdentific, 8/9

**Liu Yang,**

University of North Carollna, 8/27

**Timothy A. Postlethwalte,**

Unlversity of North Carolina, 8/29

**Mara Wilson,**

University of Kansas, 9/7

**Radha Pyati,**

University of North Carolina, 8/23

**Hassan M. Saffarian,**

University of Illinois, 9/4

**Jay C. Brumfield,**

Unlversity of North Carolina, 10/1

**Christopher J. Frank,**

Ohio State University, 10/3

**Kim M. Mitchell,**

University of Kansas, 3/28

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## E-MAIL ADDRESSES

**Mark Arnold:**

Blamma@PrimeA.Weeg.Ulowa.edu

**Daniel Thevenot:**

ULBA000@FRORS12

Richard Crooks:  
RCROKS@UNMB

Larry Weir:  
LWIER@sub.edu

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### Address Changes

Thanks to an small foul-up, I neglected to get this change of address into the last Issue of the newsletter. Janet Osteryoung has left the snow belt for the sunny middle Atlantic region to take up duties as the Chemistry Department Head at NCSU. Bob will join her later this summer after their son finishes school in Buffalo. Her new address is:

Department of Chemistry  
208 Debney Hall  
Box 8204  
NC State University  
Raleigh, NC 276958204  
9195152545

Irving Shain  
2820 Marshall Court, #8  
Madison, WI 53705

George C. Barone III  
70 Maple Cliff Drive  
Avon Lake, Ohio 44012

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### LETTERS

December 9, 1991

Dear Dick,

I would appreciate it if you could advertise in your next Newsletter the times and locations of the following SEAC events, to be held during the upcoming Pittsburgh Conference in New Orleans:

SEAC Board of Directors Meeting - Tuesday, March 10, from 1 2:00-1:15 pm in the Chequers room at the Hilton Hotel.

Relley Award Reception open to all SEAC members -Tuesday, March 10, from 5:30-8:00 pm in the Belle Chasse room at the Hilton Hotel.

Of course the actual Relley Award Symposium honoring this year's recipient, Dr. Stephen W. Feldberg, will be held on Wednesday afternoon, March 11. SEAC members should consult the final Pittcon program for the exact time and location for the Symposium. I believe the scientific program for the symposium was announced in your November '91 Newsletter.

With best regards,

*Mark E. Meyerhoff*  
Professor of Chemistry  
University of Michigan

November 28, 1991

Dear Dick:

I would like to call your attention to a symposium on fullerenes which I am co-organizing as part of the Electrochemical Society Meeting in St. Louis, May 17-22, 1992. I would appreciate it if you could place this information in the next SEAC Communications. A copy of the call for papers is enclosed and the relevant information is found on this announcement. We expect a good turnout and would like to have participation from as many true electrochemists as possible.

Sincerely yours,

*Karl Kadish*

20 November, 1991

Dear Dick:

I am a member of SEAC, and I am responding to your request for news items. First, I am organizing an STM session at the ECS meeting in Toronto next fall, and I would appreciate it if you would publicize the symposium through SEAC Communications. I have enclosed a flyer and will leave it up to you to decide if this kind of thing is appropriate for the newsletter and what information to abstract from the flyer if it is.

Second, Tony Ricco (microsensor division at Sandia National Labs) and I are looking for one or two joint graduate students to start this fall. It's a unique opportunity for a graduating college senior in chemistry, in that the intellectual and instrumental facilities of both Sandia and the University of New Mexico will be available to the student(s). Furthermore, Tony will arrange for a Sandia security clearance which may give the students a leg up when it comes time to job hunt. I have enclosed a copy of a letter Tony and I sent out to a few people that contains the details. Again, if you think this kind of thing is appropriate for a newsletter, use whatever portion of the enclosed letter you wish.

Thanks in advance for your help. You are doing a great job as editor by the way; SEAC Communications is first class.

Regards,

*Richard M. Crooks*  
Assistant Professor  
University of New Mexico

November 20, 1991

Dear Dick:

The time has come for me to retire (a second time) and I would appreciate your changing your records to reflect my new mailing address:

Irving Shain  
2620 Marshall Court, #8  
Madison WI 53705

This change can be made effective immediately. Thanks for your assistance.

*Sincerely,*

*Irving Shain*

*Olin Corporation*

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### E-MAIL

November 25, 1991

Dear Dick,

I received recently the Vol. 8 No. 6 of SEAC Communications and wish to respond to your Editorial message in saying that I strongly support the inclusion of E-Mail addresses within the SEAC Membership directory. This is for people who regularly use their E-mail box as the cheapest and most effective method of communications for short messages!

Best regards,

*Daniel Thevenot*

November 19, 1991

Dear Dick,

I just finished reading the latest newsletter and I thought I would send you my E-mail address. It is:

**Blamma@PrimeA.Weeg.UIowa.edu.**

I hope all is well in Geneva. Everything is beginning to settle down a bit after the tragic killings earlier this month. The campus is still in a state of shock over the events.

Regards,

*Mark Arnold*

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### GRA DUA TE STUDENT OPPORTUNITY

I am writing to solicit your help in identifying a promising undergraduate student who might be interested in pursuing a unique graduate school opportunity. Tony Ricco (Sandia National Laboratories) and I have been collaborating for about two years on research projects related to self-assembly chemistry, surface chemistry,

and molecular recognition, and chemical sensors. At present, we co-advise one graduate student and one post-doctoral associate who split their time between my lab at the University of New Mexico and Tony's microsensor lab at Sandia. These collaborations have been highly rewarding for the personnel involved, and therefore we have **decided** to recruit another **well-qualified** graduate student to work **with** us on projects relating to thin organic and inorganic films.

The person we hope to attract should be a good student who has some research experience at the undergraduate level, preferably in the areas of organic synthesis or **electrochemistry**. The student **will** be required to meet the usual UNM academic requirements during his/her first year (this means teaching for one semester and taking a total of **six** graduate-level courses), during **which time** we **will** arrange for a Sandia security clearance (this requires American **citizenship**). The student we recruit will have access to all the resources and instrumentation at UNM and Sandia, and we **will** provide a stipend of about **14K/yr** plus tuition.

If you know of a well-qualified undergraduate who is considering pursuing a graduate degree in chemistry, we would appreciate it if you would ask him/her to **write** or call either Tony (Dr. A. J. Ricco; Microsensor Division 1315; Sandia National Labs; Albuquerque, NM 87185; 505-844-1405; [ajricco@sandia.gov](mailto:ajricco@sandia.gov)) or myself for **additional** information.

Thanks!

Regards,

**Richard M. Crooks**

Assistant Professor

University of New Mexico

Department of Chemistry

Clark Hall 103

Albuquerque, NM 87131-2609

Tel: 505-277-6655

**JNET%RCROOKS@UNMB**

The following advertisement appeared in the November 1st Issue of *Analytical Chemistry*:

#### **PROJECT LEADER**

Biosensor Research: Conduct & oversee an exploratory research program in biosensors, employing optical & electrochemical means, aimed at providing future marketable products.

Pos req's M.S. or equiv. in **Analytical/Bio Chemistry** & 5 years in pos or as Electrochem or **Optical Sensing Research Scientist**. Candidates must have acquired the following **educ/work** achievements: exp in **original** research to develop chemical **instrumentation** employing electrochemical & optical sensing methods; exp utilizing sensing elements that include enzyme, multi-enzyme systems, **antibodies**, receptors, nucleic **acids**, **micro-organisms** & tissues; exp **utilizing** transducer elements that include electrochemical, **optical** & acoustic; exp directing subordinate research scientists over the length of a project; research exp employing reagents containing bilirubin oxidase enzyme in test solutions such as biological fluids; research exp employing fluoride **ion-selective** membrane containing fluoride ion-selective material in an electrically insulating material; research exp employing electrode devices for the determination of ionic activity in aqueous samples by means of **ion-selective** electrodes **comprised** of organic plastic material; research exp employing dry electrochemical reference **half-cells** for use as internal reference w/ion-selective electrodes for composing an organic polymeric substance having a substantially planar surface; research exp employing analytical processes/means for measuring **immunochemical** reactions in **which** one of the immunochemical **binding** reagent molecules is **labelled** to a **particle** of metal or semiconductor **material** that has resulting measurable optical properties; exp recording **experimental** data in an acceptable manner, making appropriate calculations as **req'd**, **maintaining** accurate records of work performed, analyzing data in terms of basic **math/statistical** procedures, **communicating/interpreting experimental** results, contributing suggestions for modifying research techniques & preparing **mfg protocols/specifications**; and, exp providing critical analysis of emerging new technologies to forecast future trends & determine/allocate budgets for specific R&D programs. Must have published research & obtained patents in connection w/biosensor technology & be willing to sign employer's standard agreement dealing w/inventions, works of authorship & the handling of confidential **informa-**

tion. Yrly salary for 40 hr wk: \$82,104.

*There are not many people who would be qualified for such a position, especially with only an M.S. degree and 5 years of experience. The only qualification that was omitted was the ability to walk on water!*

*Editor*

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#### **A CHRISTMAS LETTER**

I received a very newsy (4 pages) Christmas letter from Karl Kadish, most of the contents of which I shall spare you. But I would **like** to share with you part of Karl's **professor/student** philosophy which appears in a Post Script.

*"Remember, professional relationships should remain professional and the boss (or former boss) is always correct and/or in control."*

I think that's **great!** Unfortunately, that philosophy has seldom worked for me. In fact, as Rodney Dangerfield would say, "I don't get no respect."

*Editor*