

SEAC *communications*

Volume 21, Number 1, January 2005

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



<http://electroanalytical.org/>

Happy New Year



NASA/JPL/CORNELL UNIVERSITY PHOTO

SEAC - 20 YEARS - materials science - bioanalytical chemistry

We thank our sponsors: BAS, Cypress-Division of ESA, CH and Gamry Instruments, Nova Biomedical, Eco Chemie and PAR.

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Quote to remember- the motto of Ralph Adams: "If you love what you are doing the rewards will take care of themselves" .

SEAC President's Message

I'd like to extend my congratulations to Alan Bond of Monash University, our 2005 SEAC Reilley Awardee (previously announced in the October SEAC Newsletter). Alan has made pioneering contributions to electroanalytical chemistry on topics of a.c. voltammetry, electrochemistry of solids, ultramicroelectrodes, and is perhaps even better known for his fundamental electrochemical studies of inorganic metal complexes. He has been a highly interactive and important member of our community for many years. I hope that many of you will be able to attend the Reilley Symposium at Pittcon 2005 to salute Alan on this well deserved honor. Congratulations also are in order for David Cliffler of Vanderbilt University, the 2005 SEAC Young Investigator Awardee who is being recognized for his research on electrochemical studies of nanoparticles and biological systems.

In addition to the Reilley Symposium, the other key SEAC events at PittCon are the SEAC Reception and the Award dinner. Make a point of attending if you have never been to one of these events, as they are always great fun, an opportune time for informal discussions and argument on the newest research in electrochemistry, and a good way to meet new people. As Fred Anson might say, the *compotation* is sufficient for easy personal introductions at SEAC events. For younger folks at Pittcon, I suggest sidling up to some of the SEAC old-timers (not me, yet) at the Reception for entertaining stories about when electrochemistry was really challenging.

Speaking of challenges in electrochemistry, there is current hype (as well as some real progress) in making electrochemical-like measurements on single molecules. In addition to clever molecule and experiment design, this type of measurement requires fairly sophisticated electrical instrumentation. It raises the question of how far have electrochemists have progressed in measuring electrical signals. A great old electrochemical story that predates LabView, computers, op-amps and even the oldest of SEAC members (perhaps just barely) is reported in J. L. Comstock's *Chemistry* (1846). The chapter on characterization of different types of (at that time) newly-introduced batteries is longwinded and purely descriptive, with no mention of the now-common quantitative metrics: volts, amps, or watts (simple galvanometers could ascertain the flow current flow, but that was about it at that time, and H. Ohm had just recently proposed his law, but it wasn't accepted till Maxwell gave the nod 30 years later). So, if you wanted to know if Mr. Davy's battery was more powerful than Mr. Children's battery, a decisive test according to Comstock was to measure the effect of the battery on the *human frame*. Mr. Children's great battery (with 6 x 2.5 foot-long electrodes) "had little effect on water, or the human frame, the shock being felt no higher than the elbows." There is even a review question on how to use body parts to measure currents. Keep this in mind the next time you complain about the lousy S/N in your electrochemical measurements.

Happy New Year! I look forward to seeing many of you in Orlando.

Henry S. White

-PITCON® 2005

- SEAC Activities

Officers and Board of Directors Meeting

Tuesday March 1, 12:15 - 1:30 pm
OCCC, Room S331C (located on level 3 of the south concourse)
Open to current and former Board Members

SEAC dinner

Tuesday March 1, 7 pm
Ming Court Oriental Restaurant (407-351-9988), 9188 International Dr.
Contact Greg Swain for reservations
[swain\(at\)chemistry.msu.edu](mailto:swain(at)chemistry.msu.edu) Tel. (517) 355-9715 x229 Fax. (517) 353-1793
Open to all

Charles N. Reilley and Young Investigator Awards Symposium

Wednesday, March 2, 1:30 -5:00pm
OCCC, Room S220G

General Meeting of SEAC

Wednesday, March 2, immediately following the Awards Symposium
OCCC, Room S220G (same room as the Symposium)
Open to all SEAC members

SEAC Reception- to include poster presentations by the winners of the Student Travel Award

Wednesday, March 2, 5:15 - 7:30 pm
The Peabody Orlando Hotel
Bayhill Suites
All SEAC members are invited

- Graduate Student Travel Award- *Note the change of deadline.*

*Deadline for submission of applications for PittCon® 2005 is **February 15.***

Send applications to: Awards Committee Chair, Dr. Werner G. Kuhr, Vice President,
Research ZettaCore, Inc.
2000 S. Colorado Blvd, Suite 10000, Denver, CO 80222
Phone: (303) 300-2900 x-105
FAX: (303) 300-0977
Email: [werner.kuhr\(at\)zettacore.com](mailto:werner.kuhr(at)zettacore.com)

-The Society for Electroanalytical Chemistry (SEAC)

Charles N. Reilley and Young Investigator Awards

-Arranged by Stephen W. Feldberg, Brookhaven National Laboratory

Wednesday Afternoon, Room S220G

1:30 **Introductory remarks- Stephen W Feldberg**

1:35 **Presentation of the 2005 Charles N. Reilley Award to Alan M. Bond,**
Monash University by Stephen W. Feldberg, Brookhaven

1:40 **A Unified Fourier Transform Based Approach to AC, Square Wave,
Pulsed and Related Forms of Voltammetry and Impedance Spectroscopy** Alan
M. Bond, Monash University

2:15 **Electron Transfer Chemistry of Metal Quantum Dots** Royce W. Murray,
University of North Carolina, Chapel Hill

2:50 **Illuminating Chemistry: Electrogenerated Chemiluminescence on the
Millisecond Time Scale** R Mark Wightman, University of North Carolina, Chapel
Hill

3:35 **Recess**

3:40 **Presenentation of the 2005 Young Investigator Award to David E. Cliffl,**
**Vanderbilt University, by Stephen W. Feldberg, Brookhaven National
Laboratory.**

3:45 **Multianalyte Monitoring of Cell Metabolic Responses to CBW and
Environmental Toxins** David E. Cliffl, Vanderbilt University

4:20 **Chemically Modified Nanopore Electrodes** Henry S. White, University of
Utah , Bo Zhang, Ryan J White, Andrew Bohaty, Ilya Y Zharov, Yanhui Zhang

Alan M. Bond received his B.Sc. (1966), Ph.D. (1972) and D.Sc. (1977) degrees from the University of Melbourne. From 1970 to 1973 he was a Senior Demonstrator and from 1973 to 1978 a Research Fellow with the Department of Inorganic Chemistry, University of Melbourne; from 1978 to 1990 he was the Foundation Professor of Chemistry, Division of Chemical and Physical Sciences, Deakin University, Geelong; from 1990 to 1995 he was Professor of Chemistry at La Trobe University, Bundoora; in 1995 he joined the Department of Chemistry at Monash University, Clayton where he is now the R. L. Martin Distinguished Professor of Chemistry. Bond's research over more

than 35 years has addressed the theory, instrumentation and application of modern electrochemical methods to a variety of inorganic, biochemical and analytical problems. To date he has published nearly six hundred papers and two books. He has received numerous and prestigious honors including election to the Australian Academy of Sciences in 1990, the Royal Society of Chemistry Award for Electrochemistry (1997), The Hinshelwood Lectureship, University of Oxford (1998) and the Faraday Medal of the Royal Society of Chemistry Electrochemistry Group (2000).

David E. Cliffl received his Bachelor of Science in chemistry and a Bachelor of Electrical Engineering from the University of Dayton in 1992. In 1998 he completed his Ph.D. with Prof. Alan Bard at the University of Texas at Austin– his thesis focused on scanning electrochemical microscopy and fullerenes. He then joined the research group of Professor Royce W. Murray at the University of North Carolina as a postdoctoral associate working on the electrochemistry of monolayer protected clusters. In 2000 he joined the Department of Chemistry, Vanderbilt University, as an assistant professor. At Vanderbilt, Cliffl's research group concentrates on the electrochemical analysis of nanoparticles and of biological cells. The group has explored catalytic properties and electron transfer kinetics of monolayer protected clusters using the scanning electrochemical microscope, and has developed a multianalyte microphysiometer for metabolic measurements and toxicology.

-- First Ralph N. Adams Award Symposium, PittCon, Orlando, 2005

The first recipient of The Ralph N. Adams Award in Bioanalytical Chemistry is Professor Edward S. Yeung, who holds the Robert Allen Wright Chair Professorship at Iowa State University. He is an eminently qualified scientist who admirably exemplifies Adams' entrepreneurial spirit in research and teaching. For more about Ed Yeung, go to:

<http://www.external.ameslab.gov/pbchem/PI%20info/yeung.htm>

http://www.chem.iastate.edu/faculty/Edward_yeung/

The number and quality of the nominees were exceptionally strong, indicating both the prestige of the award and the vitality of the field. The inaugural award symposium will be held at the forthcoming Pittsburgh Conference, Orlando, Florida, on February 27 – March 4, 2005. In addition to an address by the awardee, the following individuals have agreed to participate in the symposium: Alan Marshall (Florida State University), Jon Sweedler (University of Illinois), Sunney Xie (Harvard University), and Mark Wightman (UNC Chapel Hill).

Past students and colleagues of Ralph have started a fund managed by Pittcon, with a target of \$50,000, to permanently fund the award. We welcome any contributions

from Ralph's many past friends and associates. Tax-deductible contributions, payable to the Adams Award Fund, may be sent at any time to the following address:

Adams Award Fund
Pittsburgh Conference
300 Penn Center Blvd., Suite 332
Pittsburg, PA 15235

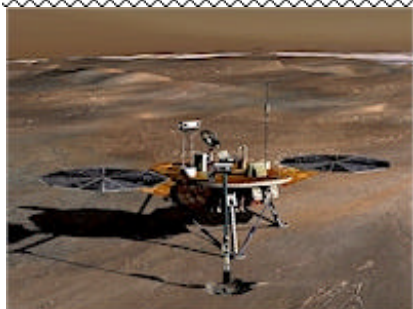
Thanks! and I hope you can support the cause.

Rick McCreery



- Ralph Adams Award in Bioanalytical Science. *This update on the Adams Award came from Rick McCreery. Rick alerted me to the need for contributions to create an endowment to support the Award, as described above.*

'Analytical Chemistry on Mars' Symposium



NASA/JPL

**Don't Miss it.....
Electroanalysis on Mars !!!**

**Pittcon 2005 - Thursday
March 3rd, 11:10am
featuring our own, Sam
Kounaves presenting a
sneak preview of the 2007
Phoenix Mars Mission.**



-SEAC Dues renewal-

The Society's on-line payment site currently accepts payments by the PayPal system. To renew your membership or to join the Society use PayPal on-line at <http://electroanalytical.org/membership.html> . If payment by check is necessary, send the check with the Membership Form, available at <http://electroanalytical.org/memberform.html> . Checks can be mailed to Richard P. Baldwin, Department of Chemistry, 2320 South Brook Street, University of Louisville, Louisville, KY 40292-0001. tel: (502) 852-6798; Fax:(502) 852-8149; e- mail: rick.baldwin(at)louisville.edu.

Note the change in dues:

Regular one year membership dues for 2005 are \$20/yr. Student dues are \$10/yr. A lifetime membership option is \$500, which can be \$100/yr for five years. Student/post doc free year 1.

- SEAC Members in the News-

Murray's Quad –**Prof. Royce W. Murray**, the 1988 SEAC Reilley Award winner, has been recognized by numerous awards for his contributions to science. Now, in the ground-breaking ceremony last year, the University of North Carolina at Chapel Hill, which has been Prof. Murray's scientific home since 1960, has named a part of its new Physical Science Complex after Royce Murray. The project is due to finish in about 2009. The outdoor area will be called Royce Murray Quadrangle and will be one of only three named plazas on the UNC-CH campus. What a great recognition!

"For those who know the campus, the quad will be between the physics and old Venable Chemistry buildings, the former becoming fronted with a new wing, and old Venable being replaced with "New Venable" (RWM).



-**Dan Feldheim**, SEAC Young Investigator Award winner in 1999, (shown at left with collaborator professor Eaton and graduate student Lina Gugliotti) and collaborators in the Department of Chemistry at North Carolina State were the first to demonstrate that RNA can be used in catalytic amounts to induce formation of uniform and clearly defined hexagonal nanoparticles of palladium. There is promise that this method may be used to form other materials. (*C&EN*, April 2004; *Science*; April 15, 2004.)



Rick L. McCreery, the 2003 SEAC Reilley Award winner, has been selected as an Associate Editor of Analytical Chemistry. When Bob Osteryoung retired, Royce Murray, who is also the editor-in-chief, handled electrochemistry related papers, assuring the scientific community of the continued focus of the journal on electrochemistry, while Norm Dovichi was appointed to fill the vacant post. The appointment of Rick shows that there must be enough work for all the editors. Have fun Rick!

Other SEACers who contribute to the success of Anal Chem are the advisory board members Regi Penner (University of California, Irvine), Mark Meyerhoff and Henry S. White (the past and present SEAC presidents), and Dick Crooks who is the A-page advisory panel member.

Jeanne E. Pemberton, professor of chemistry at the University of Arizona, and SEAC member, was a moderator at the Academic Employment Initiative panel discussion at the ACS meeting last year, which kicked off the Initiative, championed by the ACS president Charles P. Casey and funded by NSF. The inaugural event was a discussion on “Recruiting Faculty: How is it Done? Who Gets the Job and Why?”. (*C&EN*, April 2004).



Marye Anne Fox has left the post of chancellor at North Carolina State University to assume the same position at the University of California at San Diego. The announcement of the appointment recognized Fox for her contributions to science of physical organic chemistry. Marye Anne Fox also made contributions in electrochemistry, of fast electron transfer processes and conducting polymers (*C&EN*, April, 2004).

The 2005 ACS Division of Analytical Chemistry has good representation of officers from the electrochemistry and SEAC community. **Steven Petrovic** (Southern Oregon University- the winner of SEAC website naming contest) is the division secretary and **Alanah Fitch** (Loyola University) and **Henry Blount** (NSF) serve as alternate councilors.



- Science News-

-Passing of the Greats- The scientific community lost great chemists last year, the scientists who made it a modern discipline, in which electrochemistry is prominently featured. **Arnold O. Beckman** who died last year at the age of 104 invented and commercialized the pH-meter, and thus introduced electronic measurements into the chemical sciences, launching modern analytical chemistry. Beckman’s unique genius lay in his recognition of the importance of supply and demand in science, as elsewhere. The pH-meter and the Beckman uv-vis spectrophotometer provided real answers to real questions, as did the Beckman O₂ analyzer, which Beckman developed

with Linus Pauling. Beckman's chemistry was of the best kind- it triggered major progress in science and way beyond. The rest is history.

-Check out the dendrimers- that is the electrochemical and photochemical properties of dendrimers in solution and at surfaces in Hector (Tito) Abruna's overview in *Anal.Chem.* 76, 370A, 2004. For news on dendrimers in nanoscience check (*JACS* 126, 16170-16178, 2004). SEACer Dick Crooks has demonstrated unique advantages of dendrimers in nanoparticle fabrication. Dick has found dendrimers important in and outside of electrochemistry. We are staying tuned.

-What's in the name?- Royce Murray reminded us in a recent editorial (*Anal Chem.*, 76, 21, Nov. 1, 2004) that "novel" has been banned from *JACS* titles "as meaningless - if it is not novel, why report it?". Royce goes further to suggest that "sensor" and "biosensor" have lost their meaning as well. Well, times are a changing.

-Meetings.... Meetings....Meetings

-----Electrochemistry Gordon Conference-----

February 20-25, 2005

Holiday Inn

Ventura, CA

Chair: [Daniel A Buttry](#)

Vice Chair: [Hector Abruna](#)

SUNDAY

4:00 pm - 9:00 pm Arrival and Check-in

6:00 pm Dinner

7:30 pm - 9:30 pm **Fundamentals of Charge Transfer and Electrocatalysis**

Discussion Leader: **Fred Anson**, Caltech

Jean-Michel Savéant, Univ. Paris 7, France

Breaking bonds with electrons. From electrochemical to enzymatic reactions

Matt Neurock, Univ. of Virginia

Ab Initio Simulation of Electrochemical and Electrocatalytic Systems

MONDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Biological and Biomimetic Systems**

Discussion Leader: **Gang-Yu Liu**, UC-Davis

Owe Orwar, Chalmers Univ. of Technology, Sweden

Coffee Break

10:15 am Photo

Fraser Armstrong, Oxford Univ., UK

Rapid Hydrogen Cycling by Enzymes: Electrocatalysis and Implications for Future Energy Technologies

Chuck Martin, Univ. of Florida

Nanoscience in Bioanalytical Chemistry

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Building Blocks and Supramolecular Assemblies**

Discussion Leader: **Richard Crooks**, Texas A&M

Angel Kaifer, Univ. of Miami

Thermodynamic and kinetic effects on the electrochemistry of encapsulated redox centers

Catherine Murphy, Univ. of South Carolina

Growth and Form of Metallic Nanorods From Wet Chemical Reduction of Metal Salts

TUESDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Molecular Electronics and Nanoscale Assemblies**

Discussion Leader: **Rick McCreery**, Ohio State Univ.

Paul Weiss, Penn State Univ.

Measuring and Controlling Molecular-Scale Properties for Molecular Devices

Coffee Break

Jim Heath, Caltech

Molecular Mechanics and Molecular Electronics

Dan Ralph, Cornell Univ.

Electron and Spin Transport in Single-Molecule Transistors

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Electrochemistry and Materials Science**

Discussion Leader: **Reg Penner**, Univ. California - Irvine

Jay Switzer, Univ. of Missouri - Rolla
Chiral Electrodeposition

Dan Schwartz, University of Washington
Protein-directed hierarchy in the electrochemical synthesis of materials and structures

WEDNESDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Surface Processes and Structures**

Discussion Leader: **Jeanne Pemberton**, Univ. of Arizona

Kohei Uosaki, Hokkaido Univ., Japan
Electrochemical formation of molecular layers on solid substrates

Coffee Break

Bruce Parkinson, Colorado State Univ.
Metal Oxides Applied to Solar Energy Conversion

Jillian Buriak, Univ. of Alberta
Using electrochemistry on semiconductor surfaces to pattern nanoscale organic monolayers and metallic features

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Young Investigators**

Discussion Leader: **Carol Korzeniewski**, Texas Tech Univ.

Keith Stevenson, Univ. of Texas - Austin
Preparation, Characterization and Application of Catalytic Nanocarbon Electrodes

Jim Burgess, Case Western Reserve Univ.
Microelectrodes for Single Cell Cholesterol Detection

Bernadette Quinn, Helsinki University of Technology, Finland
Metal nanocrystals- ideal nanoelectrodes?

Kyoung-Shin Choi, Purdue Univ.
Electrochemical Fabrication of Semiconducting Electrodes with Controlled Micro- and Nano-Structures

THURSDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Interfacial Processes in Deposition and Corrosion**

Discussion Leader: **Jim Gimzewski**, UCLA

Olaf Magnussen, Universitaet Kiel, Germany

In-situ studies of atomic-scale dynamic processes at electrode surfaces

Coffee Break

Karl Sieradzki, Arizona State University

Surface Stress Tuning of Nanostructures

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Open Session**

Discussion Leader: **Hector Abruña**, Cornell Univ.

FRIDAY

7:30 am - 8:30 am Breakfast

9:00 am Depart

Poster presenters: For those of you wishing to present a poster at the conference, in addition to submitting a title and abstract during the online registration process, please also send both to Prof. Héctor Abruña. Prof. Abruña is Vice Chair of the conference and will be coordinating the poster sessions. His email address is: [hda1\(at\)cornell.edu](mailto:hda1@cornell.edu).

<https://www.grc.org/register/RegisterConfirm.asp?id=1091060>

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Did you know that The GRC has limited funds available through the CarlStorm Underrepresented Minority Fellowship program to support the participation of eligible minority students, faculty and scientists at Gordon Research Conferences during 2005? Please follow this link <<https://www.grc.org/csf/CSF1.asp?id=1089952>> to learn more about, and apply for this program. (In some cases, the above link may not work. If you have trouble please copy and paste the following link into your web browser <https://www.grc.org/csf/CSF1.asp?id=1089952>).

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BIOELECTROCHEMISTRY-2005

XVIII International Symposium on Bioelectrochemistry and Bioenergetics (BES)

COIMBRA, PORTUGAL, June 19-24, 2005

<http://www.bes-ise-2005.uc.pt>

ABSTRACT SUBMISSION

Dear colleague,

On behalf of the organizers, you are cordially invited to send abstracts of your best research for presentation at the forthcoming Joint Meeting of the Bioelectrochemical Society (BES) and the International Society of Electrochemistry (ISE) BIOELECTROCHEMISTRY-2005XVIII International Symposium on Bioelectrochemistry and Bioenergetics(BES) 3rd Spring Meeting: Bioelectrochemistry (ISE) that will take place in June 2005 in Coimbra (Portugal).

Bioelectrochemistry includes a broad variety of scholarly approaches leading to a better understanding of all living things at the macroscopic, microscopic/single-cell and nanoscopic/molecular level, producing beneficial applications in medicine, agriculture, industry, and ecology. The Symposium features all aspects of the highly interdisciplinary area of bioelectrochemistry and bioenergetics, with contributions from the disciplines of biophysics, biotechnology and medical biophysics, on the following themes:

- Electrified interfaces
- Electron transport in biosystems
- Biomembranes and model membranes
- Bioenergetics and signal transduction
- Photobioelectrochemistry
- Biosensors and bioelectronics
- Mechanisms of electric and magnetic effects
- Biomedical applications
- Biocorrosion
- Biotechnological applications

In addition to mainstream papers, the programme committee will accept contributions of obvious relevance to the community, which describe important new concepts, underpin understanding of the field or provide important insights into Bioelectrochemistry.

IMPORTANT DEADLINES

Submission of Abstracts: 31 January

DUE TO AN UNFORESEEN SERVER PROBLEM, PLEASE NOTE:

-2005THE ACKNOWLEDGEMENT OF RECEIPT FOR ABSTRACT SUBMISSION HAS BEEN DELAYED. FOR THIS REASON PLEASE WAIT SEVERAL DAYS AND DO NOT RESUBMIT YOUR ABSTRACT.

- THE DEADLINE FOR ABSTRACT SUBMISSION HAS BEEN EXTENDED UNTIL 10TH FEBRUARY 2005.

Submission of Full Papers: 31 May 2005

for publication in the journals Bioelectrochemistry and Electrochimica Acta.

CONFERENCE PUBLICATIONS

1. Abstracts Book - will be published with abstracts of the Conference presentations. It will be distributed at the beginning of the conference.

2. International Journals special issues - special issues, based on the best papers presented at the Conference, will be published in Bioelectrochemistry, the BES official journal, and Electrochimica Acta, the ISE official journal. All participants are invited to submit a full paper, which will be subject to the normal peer-review process, before the Symposium, by 31 May 2005. Manuscripts should be submitted to Prof. Ana Maria Oliveira Brett electronically, through the conference web page. The papers will be split between both journals. Elsevier will create an electronic link between the issues, and Elsevier will make a special version for the participants with both issues bound together. Our goal is to produce high quality and high impact special issues.

Please refer to the conference website for details on:

PLENARY LECTURES

KEYNOTE LECTURES

ROUND TABLE DISCUSSIONS:

- Electron transfer in proteins and biosystems
- Electrochemistry for probing DNA interactions
- In vivo biomedical and biotechnological applications

I look forward to receiving your abstract(s) by January 31st 2005.

Best regards,

Ana Maria Oliveira Brett
Bioelectrochemistry-2005 Chair

Announcing

The Gordon Research Conference on Analytical Chemistry (12-17 June, 2005) And **The First Gordon-Kenan Graduate/Post-Doc Research Seminar on Analytical Chemistry** (10-12 June, 2005)

Roscoff Biological Station, Roscoff, France

Focusing on Science, Technology, and Systems for Miniaturization in Analytical Chemistry

Gordon Research Conferences (GRCs) are intimate, single-session meetings of about 100 senior academic and industrial scientists and engineers, postdocs, and graduate students. The meetings focus on topical scientific areas. This year, for the first time, the GRC on Analytical Chemistry will be held in Europe. The conference will focus on science, technology, and systems for miniaturization in analytical chemistry. This includes measurement devices and systems incorporating, for example, microfluidics, nanofluidics, MEMS and BioMEMS, nanowires, nanopores, and microarrays. GRC oral presentations are given by leading experts from around the world and a lengthy discussion period follows each talk. There are no parallel sessions, meals are served communally, and afternoons are reserved for informal scientific interactions, sightseeing, and relaxing.

All participants are encouraged to submit an abstract for a poster presentation of their research. The number of participants is limited, so early applications are recommended. For a complete list of speakers, application instructions, and instructions for submitting poster abstracts visit the conference website: <http://www.grc.uri.edu/programs/2005/anachem.htm>. Graduate students, postdocs,

women, and scientists from under-represented groups are particularly encouraged to apply. On the weekend prior to the GRC on Analytical Chemistry, there will be a special preconference intended exclusively for graduate students and postdocs.

This is the first Gordon-Kenan Graduate/Post-Doc Research Seminar on Analytical Chemistry. This meeting will follow the format of the Gordon Conferences: single-session oral presentations followed by extensive discussion, free time in the afternoons, and communal meals. Attendance at this first-time meeting is limited to 30 graduate students and postdocs, so early applications are encouraged. Applications from women and under-represented groups are especially encouraged. Eleven speakers will be selected from among the applicants on the basis of one-page abstracts. All other participants will be expected to present a poster. We anticipate that all participants in this special two-day meeting will remain in Roscoff for the regular Gordon Research Conference on Analytical Chemistry which begins immediately following the preconference. At present, we anticipate that funding will be available to assist participants with registration and travel expenses.

Information about this meeting and instructions on how to apply (including information about abstract submission) are provided at the following website: <http://www.grc.uri.edu/programs/2005/gradchem.htm>. The abstract deadline is March 15, 2005.

For additional information about either the pre conference or the Gordon Research Conference on Analytical Chemistry, contact the meeting organizer: Dick Crooks ([crooks\(at\)tamu.edu](mailto:crooks(at)tamu.edu)).

The news below came from Pete Kissinger.

Hello All !

I hope that everything is well with you and your research.

I am sure that you recall ELAC-2004 Conference in Goa held under the auspices of ISEAC during January 2004. For your info, now ISEAC website is active www.iseac.org

Now, we are proposing to conduct 3-5 days Seminar in Mumbai or close to Mumbai on "**Electroanalytical Instrumentation**" under the auspices of ISEAC, some time in Dec. 2004/ January 2005. What do you think about this idea and dates?

Each day, we would have one lecture in the morning for about an hour on the basic principles of one technique or the other. Rest of the time in the morning and in the afternoon will be devoted to technical presentations/ demonstrations by suppliers of ELAC instruments.

It is also proposed to provide FREE REGISTRATION to all the life-members of ISEAC (about 100 members). This would encourage all the users of Electroanalytical instruments to participate in this event, without having to make any payment for REGISTRATION etc.

We need your views, guidance and input for the same. We feel that this would provide a platform to all the suppliers of Electroanalytical equipments and you could also come with your latest catalogues/ instruments for demonstration. The session would be conducted each day by one of the suppliers themselves, who would bring their own technical people to give talks. ISEAC and we would only play the role of bringing the users together.

The amount of sponsorship would be Rs. 50K to Rs. one lakh per company. I am sure that this is not too large a money (EUR 1 K - 2K).

Kindly respond, send your views and let us know if your company would be interested in participating in this event, so that we could go ahead with the venue, dates and duration etc..

With best wishes and friendly greetings

FROM:

Dr Suresh K. Aggarwal

Chairman , Organising Committee 11th ISMAS-WS2004

Head, Mass Spectrometry Section

Scientific Officer SO(H+)

President, ISMAS and President, ISEAC

(Indian Society for Mass Spectrometry) and

(Indian Society for Electroanalytical Chemistry)

Fuel Chemistry Division

Bhabha Atomic Research Centre

Trombay, Mumbai 400 085, India

EMAIL: skaggr2002@yahoo.co.in

skaggr@magnum.barc.ernet.in

Tel: +91-22-2559 3740 (work) 2556 5694 (Home)

FAX: +91-22-2550 5151/ 2551 9613

-ON THE MOVE

This news came from Dick Crooks:

"After 12 great years at Texas A&M University, Dick Crooks is returning to his Austin roots. Starting on September 1, 2005 he will join the University of Texas Chemistry Department faculty. With Al Bard, Adam Heller, and Keith Stevenson also at UT, it is definitely the place to do electrochemistry."

Dick

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**-JOBS -JOBS -JOBS**

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This from Mike Freund.

It is hard to believe it has been over two years since my move to the University of Manitoba. Time has flown by and I am only now beginning to feel like things are settling down. I am very fortunate to find myself in a dynamic environment with excellent colleagues within the department and across the University of Manitoba (being close to family has been very helpful as well). Over the past year I have been very active in building infrastructure and research capabilities in surface and materials science. The most recent success has been a \$7.4M award for a suite of surface science instruments including DI Scanning Probe Microscopes, a Kratos Axis Ultra High Performance XPS, a Cameca IMS 7f Dynamic SIMS and a JEOL JAMP-9500F Field Emission Auger Microprobe (for details see: home.cc.umanitoba.ca/~mfreund/materials/). The combination of this award as well as other recent additions including a Varian INOVA 600 MHz NMR (solid-state and solution) and a JEOL JEM-2100F 200kV Field Emission TEM, has resulted in an increasing profile of materials science at the University of Manitoba.

As a result, the University has committed to recruiting a Tier I (senior) Canada Research Chair in the area of "Advanced Materials." The research area has been broadly defined with the goal of attracting a dynamic, interactive, world-class researcher who will complement the research at the University and who can take advantage of the infrastructure. The appointment would be in an appropriate department within the Faculty of Science (most likely Chemistry, Physics or cross-appointed). Please include the opportunities in the next edition of SEAC.

The Canada Research Chair is intended to attract an established researcher (from within Canada or abroad; there are no requirements for citizenship or permanent residency status) who can be appointed at the rank of full professor or associate professor nearing promotion. In addition to candidates in academic positions, researchers from industrial and government laboratories are also encouraged to apply. The Chair includes seven years of research funding (including an opportunity for renewal) as well as access to funds to secure additional infrastructure.

This is an exciting time to pursue an academic career in Canada because of the outstanding investment in research by the provinces and the federal government. Please forward this email and the attached advertisement to anyone you feel may be interested in pursuing this opportunity. You will note that the University's deadline for applications is relatively close (review of applications begins in March 2005 and continues until a candidate is identified). Once a candidate is identified, a nomination will be put forward by the University with a decision coming from the federal government in approximately six months. While the process is lengthy, the success rate is very high, and it is understood that acceptance of the position is contingent on the award of the chair.

If there are any questions, I would be happy to answer them or direct interested parties to knowledgeable sources. I am also attaching an advertisement for a second, similar chair in the field of "Structural Biology." Feel free to forward it to anyone you think may be interested (*contact Mike for details, ED*).

Cheers,
Michael

Dr. Michael S. Freund <http://www.umanitoba.ca/chemistry/people/freund/>, Associate Professor of Chemistry, Canada Research Chair in Conducting Polymers and Electronic

e- mail - you wrote

Hello All !

Please be informed that ISEAC website is under development. However, you may have a look at the preliminary version of ISEAC website www.iseac.org

As you know, the life-membership fee of ISEAC for Resident Indians will be doubled to Rs. 2000/- from April 1, 2004. Please share this info with your colleagues and friends and let them avail of the Rs. 1000/- as life- membership fee of ISEAC until March 31, 2004. The ISEAC life-membership application form for an individual as well as CORPORATE MEMBERSHIP FORM (For COMPANY) can be down loaded from website.

We need a suitable LOGO for ISEAC. Please send your entries for LOGO of ISEAC. The selected logo sender will be suitably rewarded.

With best wishes and friendly greetings

FROM:

Dr Suresh K. Aggarwal

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FAX: +91-22-2550 5151/ 2551 9613Hi Anna,

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***And then there is our daily life..... Happy Valentines Day.***  
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*Thanks to Dick Crooks and Johna Leddy and all who helped put this issue together.*  
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**Send your news and comments to: [atoth\(at\)chem.ufl.edu](mailto:atoth(at)chem.ufl.edu).**