SEAC*communications*

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Editor
Takashi Ito
Department of Chemistry, Kansas State University
Manhattan, KS 66506, USA
ito@ksu.edu

Regional Editors
Alan M. Bond
School of Chemistry, Monash University
Victoria, Australia
alan.bond@monash.edu

Eric Bakker
Department of Mineral, Analytical, and Applied Chemistry, University of Geneva, Switzerland
bakker.eric@gmail.com

Francisco J. Ibañez
Grupo Nanoscopías y Fisicoquímica de Superficie, INIFTA, La Plata/Buenos Aires, Argentina
fjiban@inifta.unlp.edu.ar

Eiichi Shoji
Department of Mechanical and System Engineering, University of Fukui, Japan
shoji@u-fukui.ac.jp

Student Editor
Charles Ault
Department of Chemistry, Indiana University, Bloomington, IN 47405, USA
chaaault@iu.edu

SEAC Web Editor
Samuel Kounaves
Department of Chemistry, Tufts University
Medford, MA 02155, USA
samuel.kounaves@tufts.edu

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

PRESIDENT'S MESSAGE

Dear SEAC Members,

I am extremely excited to have this opportunity to serve as the new SEAC President for the next two years. Here, I would like to start by thanking Phil Buhlmann who has done a fantastic job of leading our Society for the last two years, Ingrid Fritsch for her hard work as the past chair of the nominations committee, all of the officers and committee members who work hard behind the scenes, and all of you who have nominated and elected me to this important role. My central goal as the SEAC president is to continue promoting our Society and advancing our field of electroanalytical chemistry. If you have new ideas, comments, or suggestions on how we can run our Society more effectively, please do not hesitate to send them to me (zhangb@uw.edu).

I would also like to congratulate Shelley Minteer and Martin Edwards for winning the Reilley Award and the Murray YI Award, respectively! Both Shelley and Martin have done amazing work in electroanalytical chemistry and both are from University of Utah, GO UTES! Their Pittcon award symposium has been arranged by Henry White and is scheduled for Monday afternoon, March 2, 2020, beginning at 1:30 PM in the McCormick Place Convention Center, Chicago. Speakers include Shelley, Martin, Yitao Long (Nanjing University, China), Janine Mauzeroll, and Chuck Henry. For the next Pittcon, Lane Baker has organized the new SEAC Student Group Meeting, which will be a wonderful opportunity for graduate students and postdocs to get together, discuss their research, and network with each other. I encourage all of you to read the event description in this issue and distribute it to others who may be interested.

I look forward to seeing you all at Pittcon in March 2020!

Bo Zhang
President, 2019-2021

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Special Thanks to Our Sponsors!
How Easy It Is to Become a SEAC Member

DUES REMINDER FOR REGULAR MEMBERS

CALL FOR SEAC BOARD AND OFFICER NOMINATIONS

Nominations are now open for President-Elect, Secretary, and Treasurer, as well as for three Board of Director positions.

Eligibility: All members in good standing are eligible, with the exception of the following members:
Ingrid Fritsch
David Wipf
Michael Heien
who will step down in 2020. SEAC thanks you for your service!

Current Board of Directors:
2016-2021: Takashi Ito, Parastoo Hashemi, and Ryan White
2017-2022: Anne Co, Charles Henry, and Joaquin Rodriguez-Lopez
2018-2023: Robbyn Anand, Kristin Kline, and Megan Sassin
2019-2024: Mei Shen, Leslie Sombers, and Alice Suroviec

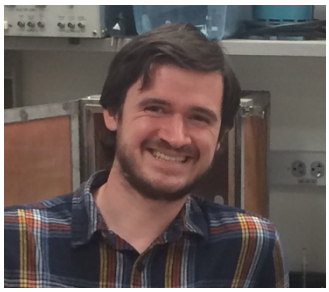
Please submit nominations by November 1, 2019 to: Megan Sassin at megan.sassin@nrl.navy.mil

Thank you,

Megan Sassin, Chair
Nominations Committee

NEW STUDENT EDITOR

Maral Mousavi has started a tenure-track faculty position at the University of Southern California, and Elena Montoto has started to work for Dow as a senior chemist. Charles Ault, a graduate student at Indiana University, Bloomington, has agreed to serve as a new Student Editor. We appreciate Maral and Elena for their numerous contributions to the newsletter, and Charles for his willingness to serve as a Student Editor!



Charles Ault is a graduate student studying at Indiana University under the direction of Professor Lane Baker. His current research focuses on the electrodeposition and analysis of metallic nanoparticles for use in heterogeneous catalysis. He received his B.S. in chemistry from Pittsburg State University in 2018. During his undergraduate studies, he investigated flame retardants and conducting copolymers. After graduation, he spent a year as a research assistant at the Kansas Polymer Research Center where his research focused on synthesis and characterization of polysiloxane elastomers.

PITTCON 2020 – March 1~5, 2020

Charles N. Reilley and Royce W. Murray Young Investigator Awards

The highlight of the SEAC activities at Pittcon 2020 will be the presentation of the 2020 Charles N. Reilley Award to **Shelley Minteer**, University of Utah, and the Royce W. Murray Young Investigator Award to **Martin Edwards**, University of Utah. The symposium in their honor will be arranged by Henry White, University of Utah.

Shelley Minteer is the Dale and Susan Poulter Endowed Chair in the Department of Chemistry at University of Utah. She is also the Director of the NSF Center for Synthetic Organic Electrochemistry. Minteer has made pioneering contributions to electrocatalysis, self-powered biosensors, bioelectronics, enzymatic and microbial fuel cells, bioelectrocatalytic materials, and amperometric biosensors. Professor Minteer has published more than 350 papers. She received the ACS Award in Electrochemistry (2018) and the Electrochemical Society Grahame Award (2019). She is also a fellow of the Electrochemical Society and the International Society of Electrochemistry.

Martin Edwards is a Research Assistant Professor in the Department of Chemistry at the University of Utah. He received his PhD in interdisciplinary science (MOAC) at the University of Warwick, UK, supervised by Patrick Unwin. He followed this with postdoctoral research in the groups of Gabriel Gomila (IBEC, Barcelona), Mark Wightman (UNC) and Henry White (Utah). His diverse research interests in electrochemistry are driven by desire to cultivate a fundamental understanding of interfacial processes occurring at the micro- and nanoscale. Using an approach that combines physical and analytical measurements with modeling (mathematical/statistical/numerical), he has tackled problems in areas ranging from neuroscience and nanoparticles through nanobubbles. A constant thread in his research has been the development of novel instrumentation and experiments, which frequently involve the development or modification of scanned probe microscopes.

SEAC Student Group Meeting – February 29, 2020

The Society for Electroanalytical Chemistry is excited to announce the inaugural SEAC Student Group Meeting, which will be held 2/29/2020 in Chicago, IL.

- Participation in this meeting is open to students (graduate, undergraduate) and postdoctoral associates, with minimal faculty oversight.
- The style of the meeting is that of a large group meeting with talks chosen from the students who attend. Talks on half-baked, problematic, or poorly understood data are encouraged, and time will be dedicated to group level discussion. Please do not plan to bring polished, formal presentations to this meeting.
- Student social activities will be planned Saturday night for the SEAC Student Group Meeting.
- The meeting immediately precedes the Pittsburgh Conference on Analytical Chemistry. Students are encouraged to attend the SEAC Student Group Meeting, and then stay to enjoy Pittcon and additional SEAC activities (SEAC Awards symposium and SEAC reception and dinner).
- To facilitate attendance at both meetings, the Division of Analytical Chemistry is still accepting poster submissions for the ACS Division Poster Session held Sunday night at Pittcon. (This will hopefully make attendance at the meeting affordable if you are attending Pittcon.)
- The meeting will be held at **HYATT PLACE CHICAGO DOWNTOWN RIVER NORTH** – 66 W ILLINOIS ST | CHICAGO, IL 60654 , which is also a Pittcon hotel.

You may register for the SEAC Student Group meeting at the following form (form provided by the Division of Analytical Chemistry)
https://forms.gle/RgrsKMi7EbLcvDE29

Space is limited to *ca*. 50 participants.

SEAC gratefully acknowledges CH Instruments for support of this meeting.

Questions and comments can be sent to Lane Baker, Indiana University at lanbaker@indiana.edu .

COMMUNICATING WITH THE DEAD?

A Contribution by Richard Durst

I have recently read about two very interesting experimental studies that raise the possibility of a dead person communicating via Artificial Intelligence.

In one set of experiments, the scientists were able to place electrodes on the human brain surface and decipher words produced by the living brain (Servick, Kelly, Computers turn neural signals into speech, *Science*, 04 Jan 2019: vol. 363, Issue 6422, p. 14). In the other experiments, pig brains were kept alive after the animal had died (Vrselia, Zvonimir, *et al.,* Restoration of brain circulation and cellular functions hours post-mortem, *Nature,* 17 April 2019: vol.568, pp. 336-343; see also, Satyanarayana, Megha, Researchers restore cell function to dead pigs brains, C&EN 29 April 2019: vol. 97 (17), p. 5).

If these experiments are advanced to the point where human brains are kept alive, will the possibility exist of communicating with (or at least listening to) a deceased individual? Of course, this raises extremely difficult moral, ethical and legal questions, but the possibility is nonetheless fascinating -- albeit in many ways quite scary! (And thus perhaps appropriate for a Halloween season issue of the Newsletter …)

RALPH & HELEN OESPER SYMPOSIUM, SEPTEMBER 27, 2019

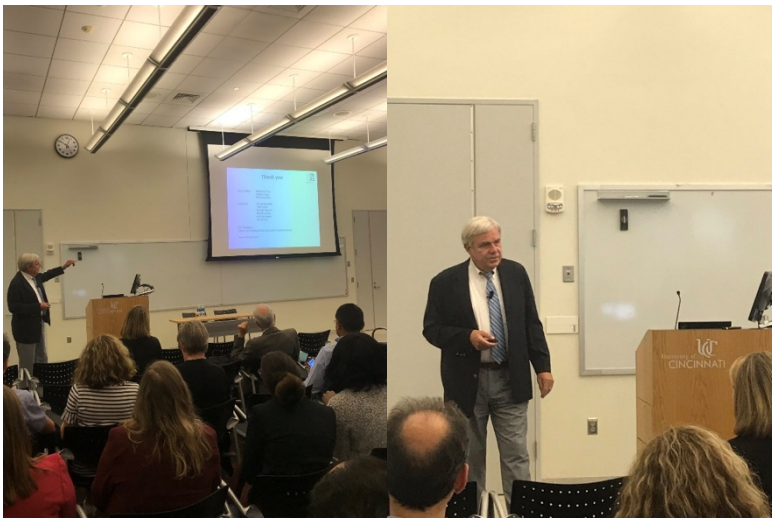
A Contribution by Ashley Ross and Ryan White

The 2019 Oesper Award was given to R. Mark Wightman, Emeritus Kenan Professor of the Department of Chemistry at the University of North Carolina at Chapel Hill on September 27th, 2019 at the University of Cincinnati. The Oesper symposium is held annually in conjunction with the local ACS Cincinnati Section at the University of Cincinnati to honor and celebrate a scientist who has made substantial contributions in their field over their career. The Oesper symposium consisted of a full day of excellent talks from former Wightman graduate students, postdocs, and friends. The speakers included Ashley Ross, from the University of Cincinnati who hosted and organized the Oesper symposium, Bob Kennedy (University of Michigan), Christy Haynes (University of Minnesota), Jill Venton (University of Virginia), Rick McCreery (University of Alberta), Paul Garris (Illinois State University), Martyn Boutelle (Imperial College London), Bill Heineman (University of Cincinnati), and of course Mark Wightman (UNC-Chapel Hill). Mark's previous graduate student, Donna Wiedemann (Proctor and Gamble), is the current chair of the local ACS Cincinnati section and had the honor of presenting the award! Congrats Mark on your well-deserved award!

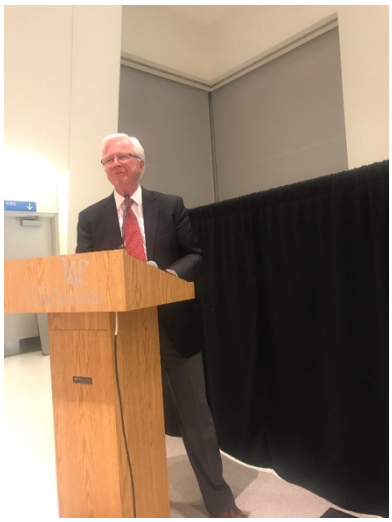
https://www.artsci.uc.edu/departments/chemistry/alumni-and-community/the-oesper-award-program-and-symposium.html

Front from left to right: Bill Heineman, Bob Kennedy, Mark Wightman, Ashley Ross, Christy Haynes, Jill Venton, Rick McCreery
Back from left to right: Paul Garris and Martyn Boutelle

Presentation of the award to Prof. Wightman: Ashley Ross (left) and Donna Weidemann (middle, Proctor and Gamble and ACS CINTACS Chair), Mark Wightman (right)



Mark Wightman lecture



Bill Heineman after-banquet talk

Symposium speakers:

Left to right: Bob Kennedy, Christy Haynes, Jill Venton

Left to Right: Rick McCreery, Paul Garris, and Martyn Boutelle

Ashley Ross

OBITUARY OF RICHARD P. VAN DUYNE

A Contribution by Peter Kissinger

Professor Richard Van Duyne was a National Academy of Sciences member who started as an electroanalytical chemist as an undergraduate at Rensselaer Polytechnic Institute and then with Reilley at UNC where he first encountered spectroelectrochemistry (Bill Heineman, later me) and then took it in a Raman direction (SERS) at Northwestern. This was entirely unplanned, but Rick got very curious, very serious about understanding Raman enhancement at surfaces. He followed that curiosity both experimentally and with theory. Amazing impact!!

He passed away on 28 July 2019 at the age of 73.

https://news.northwestern.edu/index.php/stories/2019/08/pathbreaking-chemist-richard-p-van-duyne-dies/

NEWS FROM MEMBERS

Peter Kissinger retired from Purdue to become Prof. Emeritus as of July 31 after 47 years of teaching and mentoring students one by one.

"I was very fortunate to have made this career choice for all the opportunities that have come with it, including the chance to help get SEAC started long ago with so many fine electroanalytical chemists of that day. Amazing things have been enabled when solid-state integrated electronics and software enabled so much new to happen with both controlling and monitoring interfaces. This was a wave that many of my generation were so fortunate to catch. It happily continues! The torch has been passed by my generation to yours. You are doing great things."

From ***Richard Durst***: "My congratulations to Pete Kissinger on his retirement after a long and illustrious career as a scientist, educator and entrepreneur. However, Pete wasn't always the respected elder statesman he became in his later years. Almost 50 years ago, when he was still a grad student at UNC, Pete reviewed my book, "Ion-Selective Electrodes", for *Interface,* which he organized for networking electroanalytical chemists in late 60s to 70s when he was a graduate student at UNC and a postdoc at KU. This must be one of the all-time wittiest reviews of a technical publication. Of course, it was a complimentary review or else I wouldn't have asked Takashi to reprint it again here for your enjoyment."

Book Review

INTERFACE 5, 6 (1970)

"**Ion-Selective Electrodes**" R. A. Durst, Editor, National Bureau of Standards Special Publication 314, U.S. Govt. Printing Office, 480 pages ($3.50, add one-fourth for foreign mailing.). (Proceedings of the NBS Symposium, January 30-31, 1969.)

INTERFACE wishes to thank Dr. Durst for sending us a copy of his book for review on this page. We wish more authors had such an ample supply of guts. This way our library would grow at a faster rate……

This reviewer has had no research experience with ion-selective electrodes and thus feels eminently unqualified to carry out his self-assigned task. The first step was to affix a personal bookplate to the inside front cover, thus establishing ownership. Among the usual preliminaries there is a fantastic collection of biographical sketches of the 10 principal authors, topped by beautifully executed photographs. Eisenman appears somewhat cool and reserved, Jim Ross displays a smile reminiscent of that expected for young men on the make, and the rest of the boys are obviously confident. Set on picking my way through the text, I gathered pad, pencil, beer, and pretzels; moved myself into the deep meditation; and slithered into the murky world established by W. Nernst long ago.

All of the chapters stand very well by themselves and the order of attack makes little difference. I personally read from the more practical chapters towards those dealing with the finer points of the art. Eisenman's chapter (i.e. chapter 1) provided a dramatic finish. George has assembled a most lucid introduction to the theoretical progress encompassing the three major types of membrane electrodes. Chapter 2 gives Jim Ross a chance to talk about more practical aspects of solid-state and liquid membrane electrodes including capabilities, problems, and future developments. Arthur Covington does an equally admirable job on the less elegant heterogeneous membrane electrodes extensively studied by Pungor. Chapter 4, also by Covington, is entitled "Reference Electrodes" and it too is excellent. This is a chapter that electroanalysts of all shapes and sizes could stand to concentrate on. A number of common reference electrodes are discussed with regard to their usefulness and excellent sections on liquid junction potentials and temperature effects are thrown in as an extra attraction. Don't be fooled by the title of Jim Butler's little exercise on "Thermodynamic Studies" because it is, in fact, a rather exciting discussion of many of the most important of practical considerations. I would have hoped for a more extensive treatment of the 'non-aqueous solvent' problem since none of the other fellows even mention it. One might guess the work is continuing since everyone at Tyco Labs seems to be cleaning-up DMSO (vide supra). Chapter 6 by Roger Bates and Marinus Alfenaar is of the fine quality one has grown accustomed to finding under the Bates by-

line. The subject is the all important formulation and development of “Activity Standards for Ion-Selective Electrodes”—a subject that (though I realize its gravity) doesn’t turn-me-on. The remaining chapters are all of a very Analytical sort. They really give an “outsider” the scoop on what ion-selective electrodes can and do, do.

Ed Moore’s chapter (7) on biomedical and clinical application of the calcium ion-exchange electrodes starts off with a bang, but then slides into a little too lengthy discussion of some rather specific data (but published here for the first time). I personally enjoyed the statistical analysis of calcium in serum (e.g. cancer versus normal folks) as it provides a real feeling for the nature of this kind of work, but it remains less significant than the rest of the book. Chapter 8 comes to us from Beirut Lebanon where Raja Khuri uses microelectrodes in biomedical research. This is a great chapter for those interested in microanalysis. “Analytical Studies on Ion-Selective Membrane Electrodes” is chapter 9 with Garry Rechnitz at the helm. It’s particularly good on the transient response and complex-ion studies. Truman Light discusses on-line-industrial-continuous-process analysis and the application of ion-selective electrodes thereto. The turned-on generation will admire the “environmental” aspects of Chapter 10. Watch your drinking water! An Orion Electrode in every kitchen sink in 1980. Chapter 11 (finally) was the first one I read. If I was writing a textbook on analytical chemistry, plagiarism of this chapter would be a must. It’s just fantastic. Particularly interesting is the discussion of “null-point potentiometry” for determining specific ions in small samples—a simple and most beautiful analytical principle. Dr. Durst has put together a good introduction to potentiometry in general and a most enjoyable book as well. Don’t neglect to read the appended “symposium discussion” for good information is hidden therein.

To summarize my feelings: the present volume appears simultaneously to be a state-of-the-art treatise and a remarkably readable introduction to the subject. There is a bit of repetition, but this is good for the uninitiated. The references are quite complete through 1968 with a few from 1969 that the editor slipped into his own chapter (why not?). Dr. Durst is to be congratulated for a most excellent index. The printing is perfect. The price is fantastically small. Every Analytical Chemist who is concerned with important developments in his science absolutely must have this book! Some of the material will go out of date, most of it won’t.

Pete Kissinger

Ryan White introduces ***Robert Lazenby***, who is his former postdoc and has joined in the Department of Chemistry and Biochemistry at Florida State University as a new Assistant Professor. https://www2.chem.fsu.edu/~lazenby/

SPECIAL THANKS TO NEW LIFETIME MEMBER!
(June 2019 ~ September 2019)

Special thanks go to Katherine Mirica (Assistant Professor, Department of Chemistry, Dartmouth College), who has contributed with installments towards lifetime membership!

MEETINGS TO COME

Meetings of interest to our SEAC members abound during the coming year, with symposia being organized by some among us.

Meeting	***When***	***Where***	***Link for More Information***
236th ECS Meeting	2019, Oct. 13–17	Atlanta, GA	http://www.electrochem.org/upcoming-meetings/
International Conference on Electrified Interfaces "ICEI 2019"	2019, Nov 3–8	Valdivia, Chile	www.deq.cl/icei2019
The 65th Annual Meeting of the Polarographic Society of Japan; joint meeting with the National Taiwan University	2019, Nov. 6–8	Taipei, Taiwan	http://www.polaro.jp/
MUACC 2019	***2019, Nov. 7-9***	***Indianapolis, IN***	http://muacc2019.chem.iupui.edu/
2020 CEC Annual Workshop on Electrochemistry	***2020, Feb. 22–23***	***Austin, TX***	http://cec.cm.utexas.edu/2020-cec-annual-workshop-electrochemistry
Pittcon 2020	***2020, March 1–5***	***Chicago, IL***	https://pittcon.org/
26th ISE Topical Meeting: Metal Deposition for Semiconductor and Green Energy	2020, March 29–April 1	Tainan, Taiwan	https://www.ise-online.org/ise-conferences/next_ISE-meetings.php
237th ECS Meeting with the 18th International Meeting on Chemical Sensors (IMCS 2020)	2020, May 10–15	Montreal, Canada	https://www.electrochem.org/upcoming-meetings/
27th ISE Topical Meeting: Electroanalytical Chemistry and Bioelectroanalysis	***2020, May 18–20***	***Snowbird, UT***	http://www.ise-online.org/ise-conferences/next_ISE-meetings.php
71st ISE Annual Meeting: Electrochemistry towards Excellence	2020, Aug 30–Sept 4	Belgrade, Serbia	http://www.ise-online.org/ise-conferences/next_ISE-meetings.php
PRiME 2020	2020, Oct 4–9	Honolulu, HI	https://www.electrochem.org/upcoming-meetings/
Pittcon 2021	2021, March 7-11	New Orleans, LA	https://pittcon.org/
239th ECS Meeting	2021, May 30–June 3	Chicago, IL	https://www.electrochem.org/upcoming-meetings/
72nd ISE Annual Meeting	2021, Aug 29–Sept 3	Jeju Island, South Korea	https://www.ise-online.org/ise-conferences/next_ISE-meetings.php
240th ECS Meeting	2021, Oct 10–15	Orlando, FL	https://www.electrochem.org/upcoming-meetings/
Pittcon 2022	2022, March 6-10	Atlanta, GA	https://pittcon.org/

MUACC 2019 — Nov. 7~9, 2019

2020 CEC Annual Workshop on Electrochemistry — Feb. 22~23, 2020

Each year, the CEC Annual Workshop on Electrochemistry brings together experts in fields of engineering, materials, and electrochemistry to focus on a few topics in important areas of electrochemical research. The Workshop features scientists and researchers from top universities, national laboratories, and electrochemical industries discussing cutting-edge electrochemical science, and addressing topics related to mechanisms of electron transfer.

The Workshop features two days of great speakers, in a casual atmosphere that fosters interaction between students, postdocs, faculty, representatives from industry, and national labs. The Workshop features technical presentations and posters from several different perspectives. The 2020 CEC Annual Workshop on Electrochemistry will be held February 22–23, 2020, on the University of Texas campus in Austin, Texas. The Workshop will focus on four main topics: *Electrochemistry in Clinical and Medicinal Studies, Photoelectrochemistry, Electrical Energy Storage, and New Advances in Electrochemistry.* The program follows below.

Registration and Workshop information **details:** Available beginning Nov. 1, 2019, at http://cec.cm.utexas.edu/2020-cec-annual-workshop-electrochemistry.

Posters*:* Attendees are invited to present posters at the poster session/reception scheduled for Saturday, February 22, 2020 from 5:30 – 8 pm. *To present a poster, you must first register for the Workshop. You do not need a final title for your poster until January. We will re-confirm with you and request titles, which will need to be finalized by noon on January 18, 2020***.** You can also email Sarah Robbins-Bartlow at sarahbartlow@utexas.edu. if you decide to present a poster after you have already registered.

***Exhibition**:* If your company is a CEC Industrial Affiliate in good standing, there are a number of spaces available for table exhibits at the poster session. Contact Cynthia Zoski at *cynthia.zoski*@cm.utexas.edu for more information.

2020 CEC Annual Workshop on Electrochemistry
February 22–23, 2020

Electrochemistry in Clinical and Medicinal Studies
Shana Kelley, *University of Toronto*
Leslie Sombers, *North Carolina State University*
Dipankar Koley, *Oregon State University*

Photoelectrochemistry
Nathan S. Lewis, *California Institute of Technology*
Shannon Boettcher, *University of Oregon*
David S. Ginger, *University of Washington*

Electrical Energy Storage
ChungSheng Wang, *University of Maryland*
William Chueh, *Stanford University*
Christopher Johnson, *Argonne National Lab*

New Advances in Electrochemistry
Pat Unwin, *University of Warwick*
Yogesh Surendranath, *Massachusetts Institute of Technology*

27th ISE Topical Meeting: Electroanalytical Chemistry and Bioelectroanalysis — May 18~21, 2020

27th Topical Meeting
of the International Society of Electrochemistry

Important Dates
Abstract submission opens: **November 2019**
Abstract submission ends: **15 January 2020**
Conference begins: **18 May 2020**

Conference Venue
The conference venue will be the University Guesthouse and Conference Center at the University of Utah. The University of Utah is located just above downtown Salt Lake City and offers hiking trails in the adjacent mountains, a botanical garden, and a natural history museum containing the results of many local dinosaur digs. Salt Lake City is centrally located a short flight away from anywhere in the US or Europe (direct flights from London, Amsterdam, and Paris). The unbeatable 12-mile, 15-minute access from the Salt Lake International Airport allows attendees to spend less time traveling and more time relaxing while enjoying the many on-campus and downtown activities. From a housing perspective, attendees will have the choice of staying on campus or at any of the many 1 star to 4 star hotels downtown. Salt Lake City has plenty of dining establishments, shopping outlets, and year-round activities to keep attendees engaged and entertained.

Transportation
The conference venue is about 15 minutes from Salt Lake City International Airport and there are public bus routes to the University of Utah campus, as well as shuttles, taxis, and rental car options.

Accommodation
The University Guesthouse and Conference Center has on-site housing, but the campus is a short bus ride from the city center, which has a variety of accommodations from hostels to motels to hotels.

Climate
The weather will likely be 12-18°C, but there is very little humidity in Utah, so that temperature is very comfortable for hiking, biking, and shopping.

27th Topical Meeting
of the International Society of Electrochemistry

Electroanalytical Chemistry and Bioelectroanalysis

http://topical27.ise-online.org

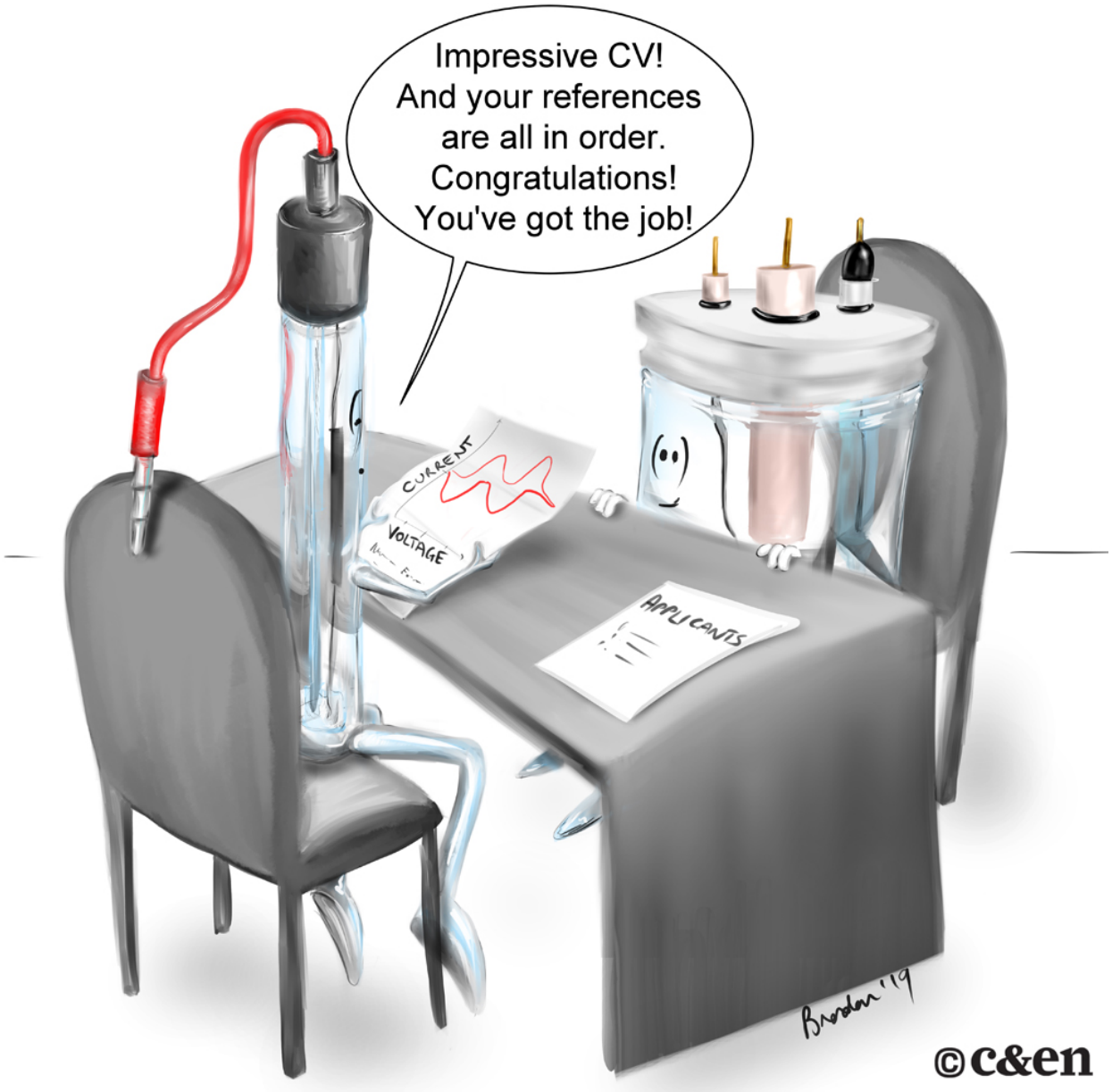
JOB OPENING

Tenure-Track Position in Bioanalytical Chemistry at the University of Cincinnati:

The Department of Chemistry in the College of Arts & Sciences at the University of Cincinnati seeks applications to fill a tenure-track position in the research area of bioanalytical chemistry and related fields. Research areas of interest may include separations, metabolomics/proteomics, micro/nanofluidics, or any related measurement science for biological applications. We will consider creative candidates who show promise in any area related to bioanalytical chemistry.

https://jobs.uc.edu (search for requisition #38283).

Electrochemical Job Interview



Taken from "Brendan Burkett, *C&EN*, **2019**, Sept. 9, page 8";
https://cen.acs.org/sections/sketch-chemistry.html

SPECIAL THANKS TO OUR SPONSORS!

HOW EASY IT IS TO BECOME A SEAC MEMBER

Any individual with an interest in electroanalytical chemistry is invited to join SEAC. Regular one-year membership dues are $30 but the first year is free! Student dues are $10. Dues are payable on January 1 of each year. A lifetime membership option is available for $300, payable either as a lump sum or in three annual, nonrefundable installments of $100.

To become a new member of SEAC, go to http://electroanalytical.org/membership.html, fill out the downloadable membership form, and pay either by check or on-line.