

# SEAC *communications*

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## **Editors**

### ***Takashi Ito***

Department of Chemistry, Kansas State University  
Manhattan, KS

[ito@ksu.edu](mailto:ito@ksu.edu)

### ***Philippe Buhlmann***

Department of Chemistry, University of Minnesota  
Minneapolis, MN

[buhlmann@umn.edu](mailto:buhlmann@umn.edu)

## **Regional Editors**

### ***Alan M. Bond***

School of Chemistry, Monash University  
Victoria, Australia

[alan.bond@monash.edu](mailto:alan.bond@monash.edu)

### ***Eric Bakker***

Department of Mineral, Analytical, and Applied  
Chemistry, University of Geneva, Switzerland

[bakker.eric@gmail.com](mailto:bakker.eric@gmail.com)

### ***Francisco J. Ibañez***

Grupo Nanoscopías y Fisicoquímica de Superficie,  
INIFTA, La Plata/Buenos Aires, Argentina

[fjiban@inifta.unlp.edu.ar](mailto:fjiban@inifta.unlp.edu.ar)

### ***Yoshio Umezawa***

Professor Emeritus, Dept. of Chemistry, School of  
Science, The University of Tokyo, Japan

[omezawa@chem.s.u-tokyo.ac.jp](mailto:omezawa@chem.s.u-tokyo.ac.jp)

## **Student Editors**

### ***Maral Mousavi***

University of Minnesota  
Minneapolis, MN

[mousa007@umn.edu](mailto:mousa007@umn.edu)

### ***Jeffrey E. Dick***

Center of Electrochemistry, Dept. of Chemistry, The  
University of Texas at Austin, TX

[jedick@utexas.edu](mailto:jedick@utexas.edu)

## **SEAC Web Editor**

### ***Samuel Kounaves***

Department of Chemistry, Tufts University  
Medford, MA

[samuel.kounaves@tufts.edu](mailto:samuel.kounaves@tufts.edu)



The Society for Electroanalytical Chemistry - 111 Loren Place, West Lafayette, IN 47906

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

## PRESIDENT'S MESSAGE

Dear SEAC Members,

Happy New Year!!!! I am certain that all of you are anxiously awaiting Pittcon 2016 in Atlanta. The following pages will give you details on all of the SEAC events, but just a reminder that the Awards symposium will be on Monday afternoon, followed by a reception and a dinner. I hope to see all of you there!! To all of the students and post-docs, there is new student pricing for the dinner to help cut the cost, so I encourage all of you to attend. We have rented the whole restaurant, so we will have plenty of room for everybody who wants to come.

Today marks the start of a new era as Takashi Ito takes over as head SEAC newsletter editor. Thanks to Takashi for volunteering for this very important job. Congrats to our ex-SEAC newsletter editor for winning the election for President-Elect. I am looking forward to working with Phil in the coming year and half. Also, congrats to the new board members, Ryan White, Parry Hashemi, and Takashi Ito. Finally, I want to say a special thanks to Faye and Petr for agreeing to be our Secretary and Treasurer, again!!! These are the two hardest jobs in the society and they have been doing an awesome job.

Shelley Minter  
President, 2015-2017

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## Students & Postdocs Having Fun at the 2016 Electrochemistry GRC (@ Four Points Sheraton/Holiday Inn Express, Ventura, CA; Jan 10-15, 2016)

*A contribution by Yiduo Wang and Donny Robinson*



## THE ELECTION RESULTS ARE IN!!

The votes have been counted and the results are:

Philippe Buhmann will become our President Elect from July 2016-June 2017. He will serve as President July 2017-June 2019, and then will serve as Immediate Past-President from July 2019-2020. Petr Vanýsek and Faye Rubinson will continue in their posts as Treasurer and Secretary, respectively from July 2016-June 2018. Our new Board members - Takashi Ito, Parastoo Hashemi, and Ryan White - will assume office in July 2016 and serve until June 2021.

**Philippe Buhmann** received his PhD in 1993 from the Swiss Federal Institute of Technology (ETH), Zürich, based on his studies in analytical chemistry with Prof. Wilhelm Simon. He was a postdoctoral fellow of the Japan Society for the Promotion of Science (1993–1994) and a research associate (1994–2000) at the University of Tokyo. He joined the chemistry department of the University of Minnesota Twin Cities in 2000 and rose through the ranks to become full professor in 2013. Phil's research interests focus on molecular recognition, fluoruous and polymeric phases, and their use for electrochemical sensing in complex real-life environments. Phil has served SEAC from 2009 to 2014 as board member and from 2011 to 2015 as editor of the SEAC newsletter.



**Petr Vanýsek** is an analytical faculty at the Chemistry and Biochemistry Department at Northern Illinois University. Going through the academic ranks starting in 1985, he achieved the Emeritus status in 2014. His interests are in electroanalytical chemistry, spanning from sensors to the studies of liquid/liquid interfaces, to energy generation and storage. His interests are also in electrochemical instrumentation, namely impedance measurements and their proper interpretation. He is presently a visiting professor at the Central European Institute of Technology in Brno, Czech Republic.



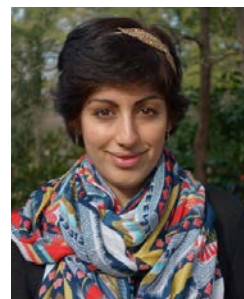
**Faye Rubinson** is a research faculty member in the Department of Chemistry at Georgetown University. Her interests are in the use of conducting polymer electrodes in biomedical applications such as sensing and stimulation devices and in catalytic applications such as oxygen and carbon dioxide reduction. Faye has served on the Board of Directors of SEAC and as the Editor of SEAC Communications, as well as Secretary.



**Takashi Ito** is a professor of chemistry at Kansas State University. He received his B.S., M.S., and Ph.D. degrees in chemistry from the University of Tokyo (Mentor: Prof. Yoshio Umezawa). He worked as a research associate at Tokyo University of Science (Mentor: Prof. Yuko Hasegawa) and then as a postdoctoral research associate at Texas A&M University (Mentor: Prof. Richard M. Crooks) before starting his independent career as an assistant professor at Kansas State University. His current research projects involve investigation of mass and charge transport within self-organized nanostructures using electrochemical and microscopic techniques for future development of efficient separation and sensing methods/materials. He currently serves as an editorial board member for The Chemical Record (The Chemical Society of Japan and Wiley). After serving on the Editorial Board for the SEAC Newsletter for the last year, he has recently assumed the mantle of Chief Editor.



**Parastoo Hashemi** is an assistant professor in the Department of Chemistry and Biochemistry at the University of South Carolina. She received an MSci in Chemistry from King's College in London in 2004. She carried out her PhD under the supervision of Dr. Martyn Boutelle in the department of bioengineering in the Imperial College, London and graduated in 2007. She performed her post-doc with Prof. Mark Wightman in the Department of Chemistry at UNC Chapel Hill from 2007-2011 and started her independent position in 2011. Her interdisciplinary research program focuses on the development of electrochemical tools for studying biological and environmental phenomena.



**Ryan White** is an assistant professor at the University of Maryland Baltimore County (UMBC). After performing undergraduate research with Royce Murray at the University of North Carolina, he completed his graduate work in 2007 at the University of Utah under the mentorship of Henry White. Ryan continued his studies as a NIH postdoctoral fellow at the University of California, Santa Barbara with Kevin Plaxco before beginning his independent career. Ryan joined the faculty at UMBC in the fall of 2011 where his group works on the development of bio-inspired electrochemical sensors using functional nucleic acids and transmembrane proteins. Ryan is the recipient of the 2016 SEAC Royce Murray Young Investigator Award.



Our thanks go out to the other four candidates – Edgar Goluch, Bhavik Patel, Joaquin Rodriguez-Lopez, and Alice Suroviec. We had an excellent slate of candidates this year. A big thank you also to all of you who took the time to vote in the election.

## PITTCON 2016–MARCH 6–10

### *Charles N. Reilley and Young Investigator Awards Symposium*

The highlight of the SEAC activities at Pittcon will be the presentation of the 2016 C. N. Reilley Award to Reginald M. Penner, University of California, Irvine, and the Royce W. Murray Award to Ryan J. White, University of Maryland Baltimore County. The symposium in their honor has been arranged by Richard M. Crooks, University of Texas at Austin, and will be held 1:30 to 4:55 PM on Monday, March 7, 2016, in Room B312 of the Georgia World Congress Center, Atlanta GA.

- 1:30 PM Introductory Remarks – Shelley Minteer
- 1:35 PM Presentation of the 2016 SEAC - Charles N. Reilley Award to Reginald M. Penner, University of California, Irvine, by Shelley Minteer, SEAC President
- 1:40 PM Electrodeposited Nanowires for Faster and More Sensitive Hydrogen Gas Detection, Reginald M. Penner, University of California, Irvine
- 2:15 PM A Membrane-Based AC Electroosmotic Pump, Charles R. Martin, University of Florida, Pradeep Ramiah Rajasekaran, Xiaojian Wu
- 2:50 PM Electrocatalytic Amplification of Single Nanoparticle Collisions Using DNA-Modified Surfaces, Richard M. Crooks, University of Texas at Austin, Timothy M. Alligrant, Radhika Dasari, Keith J. Stevenson
- 3:25 PM Recess
- 3:40 PM Presentation of the 2016 SEAC - Royce W Murray Award to Ryan J. White, University of Maryland Baltimore County, by Shelley Minteer, SEAC President
- 3:45 PM Imaging Molecular Flux Using Protein Channel Based Scanned Probe Microscopy, Ryan J. White, University of Maryland Baltimore County, Florika Caling Macazo
- 4:20 PM Imaging with Nanopipettes, Lane A. Baker, Indiana University

## SEAC Reception, Banquet and Board Meeting at PITTCON

Once again, SEAC will sponsor a reception and a dinner at PITTCON. This year they will take place on Monday, March 7<sup>th</sup> at **Hudson Grille, 120 Marietta Street**, which is walking distance from the Georgia World Congress Center. We have bought out the restaurant for the events, so please come!!!

The reception (5:30-7:30 PM) will feature appetizers and a cash bar. The reception is a great networking opportunity and a chance to catch up with friends in the electrochemistry community.

The banquet, honoring our Reilley and Murray Award recipients (7:30-9:30 PM) will also take place at Hudson Grille. Faculty staff and professionals may sign up in advance for \$55 for the dinner. This year, to increase student participation, we are subsidizing the cost of student dinner and they may sign up for \$30. **Reservations and payments should be made on the SEAC membership site at <http://electroanalytical.org/membership.html> by February 26th.** (Scroll down to the "Payments" section to enter your payment info.)

The **board-of-directors meeting** is scheduled from 11:30 AM to 1:30 PM on Monday, March 7<sup>th</sup>, in Room C211 of the Georgia World Congress Center. BOD members are asked to let Faye Rubinson ([jfr@georgetown.edu](mailto:jfr@georgetown.edu)) know by Feb 15 if they are interested in a "Make-you own sandwich" buffet at about \$28 apiece or if you prefer to purchase something ON SITE to bring to the meeting. Former members of the Board are always welcome to attend.



## Reception and Dinner at Pittcon 2016

### Reception

5:30 PM to 7:00 PM

- Free and open to all!
- Following SEAC Award Symposium
- Free Appetizers
- Cash Bar



### Dinner

7:30 PM to 9 PM

- Faculty, staff, affiliates, professionals: \$55
- Students: \$30
- Buffet Dinner
- Cash Bar
- Pay in advance via PayPal



### Menu

- Starters: Caesar Salad  
House Salad  
Bread & Butter
- Entrees: Vegetarian Pasta Primavera  
Mushroom Sirloin  
Herb Chicken
- Sides: Boursin Mac & Cheese  
Mashed Potatoes  
Broccoli
- Desserts: Miniature Cake Assortment

## *Deadline Extended to 2/15: Gamry Student Travel Award for Those Using EIS*

Thanks to a kind donation from Gamry Instruments, SEAC would like to announce a new EIS Travel Grant. This travel award is for graduate students who use EIS and will present their results at Pittcon 2016. The award will cover the cost of registration plus \$500 towards travel.

The nomination shall consist of the student's current graduate transcript, a copy of the abstract submitted to the Pittsburgh Conference, a complete resume including publication list, and a letter of recommendation from the student's research advisor. The advisor's letter should include a statement of approximate graduation date and a short description of the student's speaking ability. A candidate shall be considered for an award for travel to Pittcon meetings occurring up to one year after the student's Ph.D. defense. Previous awardees will not be eligible for further consideration. **Please note: The applicant should indicate on the application that they are applying for the EIS Travel Grant.**

**Award nominations are due 2/15/2016 and should be submitted as a single pdf file to:**

Prof. Héctor D. Abruña  
Department of Chemistry & Chemical Biology  
Cornell University  
Ithaca, NY 14853-1301  
[hda1@cornell.edu](mailto:hda1@cornell.edu)

## *Talanta Medal and Reception at Pittcon*

**The Talanta Medal** was initiated in 1961 by Pergamon Press to honor outstanding contributions to analytical chemistry. The last medal was awarded in 1995. After a twenty year hiatus, Elsevier Science, now the publisher of *Talanta*, is pleased to announce reinauguration of the Talanta Medal.

The 2015 recipient will be Professor Elo Hansen of the Technical University of Denmark. The award will be presented during the [Pittcon 2016](#) conference at a reception at the Hilton Garden Inn Atlanta Downtown (City View Dining Room) on **Tuesday, March 8<sup>th</sup>, 6:00–9:00 PM**. [Hors d'oeuvres](#) and drinks will be provided.

Spaces, however, are limited. Please therefore visit the Elsevier registration page at <http://www.journals.elsevier.com/talanta/talanta-medal-reception> for the reception to register your interest in attending. All applicants will receive a notification with regard to their application from 15<sup>th</sup> February. Hope to see you there!

Gary Christian  
Editor-in-Chief, *Talanta*

## *Electrochemistry Sessions at Pittcon 2016 (Including Poster Sessions)*

### **SUNDAY AFTERNOON, MARCH 6**

- *Session 70* Wearable and Point-of-Care Sensor Technologies for Biomonitoring, Room B401, 1:30 PM
- *Session 80* Ionophore-Based Chemical Sensors I, Room B404, 1:30 PM

### **MONDAY MORNING, MARCH 7**

- *Session 240* ACS-ANYL - BRAIN Initiative Advancements in Neurochemical and Physiological Measurements, Room B308, 8:30 AM

- *Session 270* Neurotransmission at Single and Nano-Resolved Bio-Structures, Room B303, 8:30 AM
- *Session 290 SEAC* - Nano-Electroanalysis for a Sustainable World, Room B310, 8:30 AM
- *Session 310* Ionophore-Based Chemical Sensors II, Room B404, 8:30 AM
- *Session 340* Capillary Electrophoresis, Room B302, 8:30 AM
- *Session 420* Neurochemistry, Room B402, 8:30 AM

#### **MONDAY AFTERNOON, MARCH 7**

- *Session 540 SEAC* - Charles N. Reilley and Royce W. Murray Award, Room B312, 1:30 PM
- *Session 710* Neurochemistry, Room B401, 1:30 PM
- *Poster Session 780* Electrochemistry, Exposition Floor, 400 Aisle

#### **TUESDAY MORNING, MARCH 8**

- *Session 960 SEAC* Young Investigator Session, Room B311, 8:30 AM
- *Session 990* Capillary Electrophoresis, Room B315, 8:30 AM
- *Session 1000* Electrochemistry - New Approaches and Techniques, Room B316, 8:30 AM

#### **TUESDAY AFTERNOON, MARCH 8**

- *Session 1230 SEAC* - New Trends in Electrochemical Neurochemistry, Room B310, 1:30 PM
- *Session 1280 SEAC* - The Student Session in Electroanalysis, Room B401, 1:30 PM

#### **WEDNESDAY MORNING, MARCH 9**

- *Session 1630* Electrochemistry - Biological Applications, Room B403, 8:30 AM
- *Poster Session 1730* Capillary Electrophoresis, Exposition Floor, 400 Aisle
- *Poster Session 1790 SEAC* Poster Session, Exposition Floor, 400 Aisle

#### **WEDNESDAY AFTERNOON, MARCH 9**

- *Session 1830* Advancing Strategies for Chronic In Vivo Sensing, Room B302, 1:30 PM
- *Session 1870* Electrical and Electrochemical Sensing and Detection Based on Nucleic Acid Recognition, Room B309, 1:30 PM

#### **THURSDAY MORNING, MARCH 10**

- *Session 2150* Electrochemistry - New Methods and Applications, Room B314, 8:30 AM

#### **THURSDAY AFTERNOON, MARCH 10**

- *Session 2370 SEAC* - Nanoengineered Biosensors, Room B314, 1:30 PM

## **PLEASE BE ON THE LOOKOUT FOR YOUR 2016 DUES NOTICE**

Faye will be sending out an email to those who still need to pay their 2016 dues in the next couple of weeks. Make sure your membership AND your email are current so that you do not miss out of announcements about SEAC news and events.

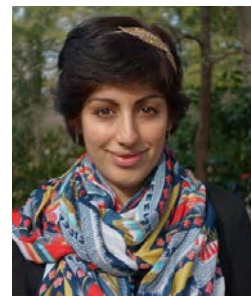
## NEWS FROM MEMBERS

**Ingrid Fritsch**, University of Arkansas, has been named a **2015 Fellow of the American Association for the Advancement of Science (AAAS)**. Check it out at: <http://news.uark.edu/articles/33079/two-u-of-a-faculty-named-aaas-fellows>



**Ingrid Fritsch** co-organized with Hitoshi Watarai and C. Bor Fuh a **multi-day symposium** on “Magnetoanalytical Science: Separation, Characterization and Imaging”, Pacificchem, Honolulu, HI, Dec 15-20, 2015. (25 oral presentations and 8 poster presentations from Germany, Japan, and USA.).

**Parastoo Hashemi**, University of South Carolina, won the Eli Lilly Young Investigator Award for Analytical Chemistry in November 2015.

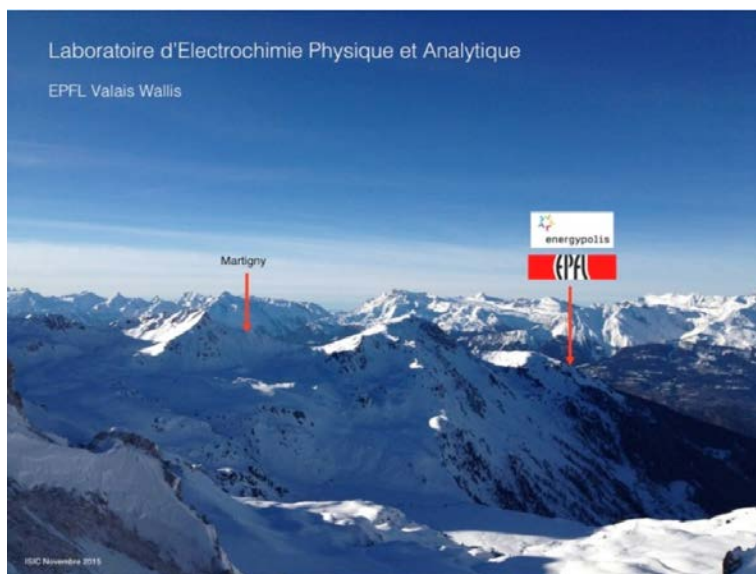


**Hubert Girault**, Ecole Polytechnique Fédérale de Lausanne, sent news from Switzerland.

The Laboratory of Physical and Analytical Chemistry of EPFL, Switzerland has moved to the new Energypolis campus in mountains in the city of Sion. A key focus is energy research, in particular, redox flow batteries and hydrogen production at the pilot plant scale (10 kg H<sub>2</sub>/day).



On the electroanalytical side, the group headed by Dr. Andreas Lesch is developing new inks formula for inkjet printed electrodes and is open to any collaboration. A list of the electrodes already produced for different projects can be found at: <http://lepa.epfl.ch/LEPASION/Inkjet-Printed-Electrodes>





**Pine Research Instrumentation** (Durham NC) is pleased to announce that Drs. Neil Spinner and Alex Peroff have joined Pine.



Dr. Neil Spinner has joined Pine Research Instrumentation as an Electroanalytical Sales Engineer. He received a B.Sc. from the University of New Hampshire in 2009 and a Ph.D. from the University of Connecticut in 2013, both in Chemical Engineering. His Ph.D. work focused on developing alternative high capacity anode materials for lithium-ion batteries, fabrication of novel electrocatalysts for room temperature utilization and conversion of CO<sub>2</sub> through a carbonate pathway, and physical/electrochemical characterization using a variety of techniques. Upon completion of his Ph.D., Dr. Spinner spent two years at the US Naval Research Laboratory doing post-doctoral work on

lithium-ion battery safety, specifically investigating cell-to-cell failure propagation in multi-cell battery packs and the development of diagnostic tools for instantaneous and non-invasive state of health monitoring. In his free time, Dr. Spinner enjoys watching and playing sports, hiking, writing/playing music and spending time with family and friends.



Dr. Alex Peroff has joined Pine Research Instrumentation as an Electroanalytical Sales Scientist. Dr. Peroff earned his Ph.D. at Northwestern University under the direction of Professor Richard Van Duyne and Eric Weitz. His thesis work utilized electrochemistry and surface-enhance Raman spectroelectrochemistry techniques to study pyridinium electrocatalyzed conversion of CO<sub>2</sub> to hydrocarbon fuels. During his time at Northwestern, Dr. Peroff engaged in several science outreach initiatives that promote science education to at-risk children. Following his doctorate, Dr. Peroff completed a post-doctoral position at the University of Albany where he studied amyloid fibrils using tip-enhanced Raman spectroscopy under the direction of

Professor Igor Lednev. In his free time, Dr. Peroff enjoys cooking, biking, exercising and martial arts.

## MEETINGS TO COME

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

<b>Meeting</b>	<b>When</b>	<b>Where</b>	<b>Link for More Information</b>
2016 CEC Annual Workshop on Electrochemistry	2016, Feb. 13–14	Austin, TX	<a href="http://cec.cm.utexas.edu/annual-electrochemistry-workshop">http://cec.cm.utexas.edu/annual-electrochemistry-workshop</a>
18 <sup>th</sup> ISE Topical Meeting	2016, March 9–11	Gwangju, South Korea	<a href="http://topical18.ise-online.org/">http://topical18.ise-online.org/</a>
Pittcon 2016	2016, March 6–11	Atlanta, GA	<a href="http://pittcon.org">http://pittcon.org</a>
251 <sup>st</sup> ACS National Meeting	2016, March 13–17	San Diego, CA	<a href="http://www.acs.org/content/acs/en/meetings/spring-2016.html">http://www.acs.org/content/acs/en/meetings/spring-2016.html</a>
19 <sup>th</sup> ISE Topical Meeting: Electrochemistry at Modified Interfaces	2016, April 17–20	Auckland, New Zealand	<a href="http://topical19.ise-online.org/">http://topical19.ise-online.org/</a>
7 <sup>th</sup> Electrochemistry in Nanosciences	2016, May 23–25	Lille, France	<a href="http://elecnano.univ-paris-diderot.fr/">http://elecnano.univ-paris-diderot.fr/</a>
229 <sup>th</sup> ECS Spring meeting	2016, May 29–June 3	San Diego, CA	<a href="http://www.electrochem.org/229">http://www.electrochem.org/229</a>
6 <sup>th</sup> Baltic Electrochemistry Conference: Electrochemistry of Functional Interfaces and Materials	2016, June 15–17	Helsinki, Finland	<a href="http://chemistry.aalto.fi/en/current/6th_electrochemistry_meeting/">http://chemistry.aalto.fi/en/current/6th_electrochemistry_meeting/</a>
10 <sup>th</sup> International Symposium on Electrochemical Impedance Spectroscopy	2016, June 19–24	A Toxa, Spain	<a href="http://eis10th.webs.uvigo.es/">http://eis10th.webs.uvigo.es/</a>
GRC in Bioanalytical Sensors	2016, June 26–July 1	Newport, RI	<a href="http://www.grc.org/programs.aspx?id=14001">http://www.grc.org/programs.aspx?id=14001</a>
14 <sup>th</sup> International Conference on Electrified Interfaces	2016, July 3–8	Singapore, Singapore	<a href="http://www.lancaster.ac.uk/icei2016/">http://www.lancaster.ac.uk/icei2016/</a>
Electrochemical Methods for Nanotechnology	2016, Aug. 17–19	Brussels, Belgium	<a href="http://www.surfgroup.be/emnt2016-17-19-august-2016">http://www.surfgroup.be/emnt2016-17-19-august-2016</a>
252 <sup>nd</sup> ACS National Meeting	2016, Aug. 21–25	Philadelphia, PA	<a href="http://www.acs.org/content/acs/en/meetings/fall-2016.html">http://www.acs.org/content/acs/en/meetings/fall-2016.html</a>
67 <sup>th</sup> ISE Annual Meeting	2016, Aug. 21–26	The Hague, Netherlands	<a href="http://annual67.ise-online.org/">http://annual67.ise-online.org/</a>
Single Entity Electrochemistry: Faraday Discussion	2016, Aug. 31–Sept. 2	York, United Kingdom	<a href="http://www.rsc.org/events/detail/17425/">http://www.rsc.org/events/detail/17425/</a>
Kurt-Schwabe-Symposium	2016, Sept. 4–7	Mittweida, Germany	<a href="http://dechema.de/events/en/KS2016.html">http://dechema.de/events/en/KS2016.html</a>
2 <sup>nd</sup> International Meeting on Electrogenerated Chemiluminescence	2016, Sept. 29–31	Bordeaux, France	<a href="http://ecl2016.sciencesconf.org/">http://ecl2016.sciencesconf.org/</a>
PRiME 2016 (ECS)	2016, Oct. 2–7	Honolulu, HI	<a href="https://ecs.confex.com/ecs/230/cfp.cgi">https://ecs.confex.com/ecs/230/cfp.cgi</a>

<b>Meeting</b>	<b>When</b>	<b>Where</b>	<b>Link for More Information</b>
Pittcon 2017	2017, March 2–10	Chicago, IL	<a href="http://pittcon.org">http://pittcon.org</a>
20 <sup>th</sup> ISE Topical Meeting	2017, March 19–22	Buenos Aires, Argentina	<a href="http://www.ise-online.org/annmeet/next_meetings.php">http://www.ise-online.org/annmeet/next_meetings.php</a>
253 <sup>rd</sup> ACS National Meeting	2017, April 2–6	San Francisco, CA	<a href="https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html">https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html</a>
21 <sup>st</sup> ISE Topical Meeting	2017, April 23–26	Szeged, Hungary	<a href="http://www.ise-online.org/annmeet/next_meetings.php">http://www.ise-online.org/annmeet/next_meetings.php</a>
231 <sup>st</sup> ECS Spring meeting	2017, May 28–June 2	New Orleans, LA	<a href="http://www.electrochem.org/meetings/biannual/fut_mtgs.htm">http://www.electrochem.org/meetings/biannual/fut_mtgs.htm</a>
68 <sup>th</sup> ISE Annual Meeting	2017, Aug. 27–Sept. 1	Providence, RI	<a href="http://www.ise-online.org/annmeet/next_meetings.php">http://www.ise-online.org/annmeet/next_meetings.php</a>
254 <sup>th</sup> ACS National Meeting	2017, Aug. 20–24	Washington DC	<a href="https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html">https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html</a>
232 <sup>nd</sup> ECS Fall meeting	2017, Oct. 1–6	National Harbor, MD	<a href="http://www.electrochem.org/meetings/biannual/fut_mtgs.htm">http://www.electrochem.org/meetings/biannual/fut_mtgs.htm</a>
255 <sup>th</sup> ACS National Meeting	2018, March 18–22	New Orleans, LA	<a href="https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html">https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html</a>
69 <sup>th</sup> ISE Annual Meeting	2018, Sept. 2–7	Bologna, Italy	<a href="http://www.ise-online.org/annmeet/next_meetings.php">http://www.ise-online.org/annmeet/next_meetings.php</a>

### **CEC Annual Workshop on Electrochemistry — Feb. 13-14, 2016**

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 issues with respect to the mechanisms of electron transfer.

We anticipate 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 **2016 CEC Annual Workshop on Electrochemistry** will be held February 13–14, 2016, and will focus on three main topic areas: **lithium-ion batteries**, **electron transfer through films**, and **advanced electrolytes and applications**. The Workshop will be held in the **Robert A. Welch building** on the University of Texas campus in Austin, Texas. Please explore the website for more information: <http://cec.cm.utexas.edu/annual-electrochemistry-workshop>.

#### **Symposium:**

*Saturday, February 13, 2016*

##### Advanced Electrolytes with Applications Session

**Steven McIntosh**, *Lehigh University*

Structure-function Relationships in Solid Oxide Fuel Cell Electrode Materials *via In-situ* Neutron Diffraction

**Donald R. Sadoway**, *Massachusetts Institute of Technology*

Molten Salt Electrochemistry: from Energy Storage to Metals Extraction

**Stephen Maldonado**, *University of Michigan*

Electrodeposition of Single Crystalline Semiconductors

##### Lithium-ion Batteries Session

**Steven J. Visco**, *PolyPlus Battery Company*

Protected Lithium Metal Electrodes and Next Generation Batteries Enabled by Them

**Dan Addison**, *Liox Power, Inc.*

Elevated Temperature Lithium Rechargeable Batteries: Motivation and Challenges

**Bryan D. McCloskey**, *University of California, Berkeley*  
Ion Solvation Effects in the Nonaqueous Li-O<sub>2</sub> Electrochemistry

Sunday, February 14, 2016

Electron Transfer through Films Session

**Henry S. White**, *The University of Utah*

Electron Transfer at the Contact Line of a Gas/Electrolyte/Electrode Interface

**Michael J. Rose**, *The University of Texas at Austin*

Interfacial Electron Transfer through Organic/Inorganic Ultrathin Films on Semiconductors: Is TiO<sub>2</sub> Leaky?

**Justin Gooding**, *The University of New South Wales*

Switching On and Off Electrochemistry at Monolayer Modified Silicon Electrodes using Light: from Electrode Arrays to Single Cell Capture and Release

**David J. Fermín**, *University of Bristol*

Charge Transfer across Thin Organic Films at Semiconductor Surfaces

**Shigeru Amemiya**, *University of Pittsburgh*

Nanoscale Scanning Electrochemical Microscopy of Graphene and Graphite

#### **Exhibition:**

If your company is a CEC Industrial Affiliate in good standing, we have a limited number of spaces available for table exhibits at the poster session. Contact Bob Villwock ([bvillwock@cm.utexas.edu](mailto:bvillwock@cm.utexas.edu)) for more information.

#### **Electrochemistry at Modified Interfaces — April 17–20, 2016**

The 19th Topical Meeting of the International Society of Electrochemistry will be held in Auckland, New Zealand, 17- 20 April 2016. Abstracts for poster and oral, invited oral and keynote presentations may now be submitted through the website at <http://topical19.ise-online.org>. The closing date for submission of abstracts will be 7 December 2015.

#### **ElecNano — May 23–25, 2016**

Following the success of the previous editions of ElecNano 1-6 (2006, 2008, 2009, 2011, 2013 and 2014), the researchers of the NanoBiointerface team of the Institut d'Electronique de Microélectronique et de Nanotechnologie of the University of Lille (IEMN) and the sub-division of electrochemistry of the French Chemical Society are happy to organise the 7<sup>th</sup> meeting of Electrochemistry in Nanoscience. This 7<sup>th</sup> edition will be held in Lille at Polytech-Lille from 23 to 25 of May 2016. The focus of this meeting is nanomaterials for sensing and energy driven applications

The area of nanotechnology and the development of novel functional nanomaterials has witnessed continuously growing interest. Numerous projects have been focused on the synthesis, characterization, and functionalization of nanomaterials, as well as their enormous possible applications in energy generation/storage devices ranging from such fuel cells, batteries, to supercapacitors. Electrochemical techniques using these new material-based electrodes provide in addition sensitive and selective sensing platforms, and so are expected to be of wide interest for analytical purposes.

The 2016 ElecNano Meeting brings together leading experts from various scientific disciplines to discuss new and exciting advances that involve nanoscale materials and nanotechnologies for electrochemical sensing and energy related issues. Justin Gooding (School of Chemistry and Australian Centre for NanoMedicine, University of New South Wales, Australia; Editor-in-Chief, ACS Sensors), Lisa Hall (Department of Chemical Engineering and Biotechnology, University of Cambridge, UK), Martin Pumera (School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore), Patrick Unwin (University of Warwick, UK), Elisabeth Lojou (Laboratory of Bioenergetic and Engineering of Proteins, Marseille, France), Sophie Griveau (Chimie ParisTech, Unite Technologies Chimiques & Biologiques pour la Sante, Paris, France) and Mohammed A. Amin (Materials and Corrosion group, Department of Chemistry, Faculty of Science, Taif, Saudi Arabia) will be sharing with the participants their recent results. Please explore the website for more information: [www.elecnano.fr](http://www.elecnano.fr)

## 10<sup>th</sup> International Symposium on Electrochemical Impedance Spectroscopy — June 19–24, 2016

Oral or poster contributions in any field of Electrochemistry involving EIS are welcome to be discussed from June 19-26, 2016, in A Toxa, Galicia, Spain. A special issue of *Electrochimica Acta* will be devoted to the conference contributions.

The confirmed plenary speakers are: Prof. Juan BISQUERT, Universitat Jaume I, Castelló, Spain; Prof. Christopher BRETT, University of Coimbra, Portugal; Prof. Digby MACDONALD, University of California, Berkeley, USA; Dr. Marco MUSIANI, IENI, CNR, Padova, Italy; Dr. Vincent VIVIER, LISE, CNRS, Univ. Pierre et Marie Curie, Paris, France. For additional information, please visit the meeting website: <http://eis10th.webs.uvigo.es/>

## JOB OPENINGS

### Tenure-Track Assistant Professor in Inorganic Chemistry, Southern Oregon University

The Southern Oregon University, (SOU) Division of Science, Technology, Engineering and Mathematics (STEM) Chemistry program invites applications for a tenure track, 9 month, faculty position in Inorganic Chemistry at the Assistant Professor level. This position will be responsible for the inorganic chemistry lecture and lab, as well as participation in our general chemistry sequence and organic chemistry labs. The Chemistry Program values close interactions with students and the successful candidate should be able to demonstrate the desire to teach, advise, and pursue active research with undergraduates with diverse learning styles and backgrounds. This position is expected to participate in scholarly activities including formal research whether in scholarship of discovery, scholarship of synthesis, scholarship of application or scholarship of teaching. The successful candidate will have a Ph.D. in Inorganic Chemistry or a closely related field. Post-doctoral experience and/or college level teaching experience is highly desirable.

Southern Oregon University is a public, liberal arts university of 6,000 students. A major renovation of our science building was recently completed. The program is well-equipped with a 400 MHz NMR, five MS systems including two LCMS, ICP, IR, UV-vis, AA, GC, HPLC, TGA, and supporting equipment. For more information see <http://www.sou.edu/chemistry>. To apply, please visit <https://jobs.sou.edu>

### Postdoctoral Research Position @ University of Texas, Austin

Dick Crooks at UT-Austin is soliciting applications for a postdoctoral fellow to work on paper fluidic sensors. Due to the nature of the funding, applicants must be U.S. citizens or permanent residents. Additionally, a background in sensors, electrochemistry, and/or biochemistry is a requirement.

Richard M. Crooks  
Robert A. Welch Chair in Materials Chemistry  
The University of Texas at Austin  
[crooks@cm.utexas.edu](mailto:crooks@cm.utexas.edu)  
<http://rcrooks.cm.utexas.edu/research>

### Postdoctoral Research Associate Position @ University of Maryland, Baltimore County

A postdoctoral position is available at the University of Maryland Baltimore County (UMBC) for an individual with a Ph.D. in chemistry, biochemistry, bioanalytical chemistry or related fields. The position

will focus on the development electrochemical sensors employing functional nucleic acids. Priority will be given to individuals with research experience in electrochemistry, and/or biosensor, biomaterial development, microfabrication experience. A cover letter highlighting relevant skills and goals, a CV and contact information for at least three references can be mailed to **Prof. Ryan White, Department of Chemistry and Biochemistry, University of Maryland Baltimore County, 1000 Hilltop Circle, Baltimore, MD 21250** or emailed in a single pdf file to [rjwhite@umbc.edu](mailto:rjwhite@umbc.edu). The position start date is anticipated to be in the Fall of 2016. Review of application materials will begin April 1<sup>st</sup>, 2016 and the position will remain open until filled. *UMBC is an Equal Opportunity/Affirmative Action employer, and applications from women, minorities and individuals with disabilities are especially encouraged.*

## 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. 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.