SEAC*communications*

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PRESIDENT'S MESSAGE

Dear SEAC Members,

I hope all of the SEAC-ers are having a great new year!!! This issue is our "prepare for Pittcon" issue, so it is full of excellent information about the SEAC activities at Pittcon 2017. The Reilley and Murray Award Symposium is scheduled, and I look forward to seeing you all on Monday afternoon at Pittcon, but there are also many other great electrochemistry sessions at Pittcon 2017 (see pages 7-9). Thanks to Tim Paschkewitz for organizing another great SEAC Award Reception and Dinner. This year we will be at the Public House Gastropub!!! Please RSVP for dinner ASAP and remember that you can now prepay on PayPal. Also, to all of the board members, remember that we moved the board meeting to Sunday night (see page 7). To all of our student members, please check out page 4 to see opportunities for applying for SEAC Student Travel Awards to help fund your trip to Chicago. I hope to see all of you at our Pittcon 2017 activities. In preparation for Pittcon 2018, please see page 3 and nominate your favorite electroanalytical chemists for the 2018 Reilley and Murray Awards.

I would like to take this opportunity to thank our board of directors who are finishing their terms: Rose Ann Clark, Stephen Maldonado, and Greg Swain. We thank you for your commitment to making SEAC a success over the last 5 years. I would also like to congratulate Anne Co, Chuck Henry, and Joaquín Rodríguez-López for winning the election for new Board of Directors members. Finally, I would like to thank Faye and Petr for their constant dedication and support as our secretary and treasurer.

Sincerely,

Shelley Minteer
President, 2015-2017

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NOMINATIONS OPEN FOR 2018 REILLEY AND MURRAY AWARDS – DUE DATE: MARCH 1, 2017

The *Charles N. Reilley Award in Electroanalytical Chemistry* is given in memory of one of the most distinguished analytical chemists of the 20th century. Reilley's interests were both fundamental and broad. He made seminal contributions not only to electroanalysis, but also to optical spectroscopy, NMR, chromatography, data analysis, instrumentation, and surface analysis. Sponsored by BioAnalytical Systems (BASi, https://www.basinc.com/) and administered entirely by SEAC, the Reilley Award recognizes an active researcher who has made a major contribution to the theory, instrumentation, or applications of electroanalysis. A signature of Reilley's research was to decline empiricism, seeking a basic understanding of measurements and detection schemes. Reilley recognized that measuring things is at the heart of modern chemistry. Reilley is central in the history of the Society for Electroanalytical Chemistry, which was formed following his death in 1981, as a vehicle for managing the award. A Biography of Charles N. Reilley was written by Royce Murray for the National Academies Press in 2006 (http://www.nasonline.org/publications/biographical-memoirs/memoir-pdfs/reilley-charles.pdf).

Nominations for the Reilley Award should include a letter of nomination describing the individual's significant contributions to electroanalytical chemistry, at least two seconding letters of support, and a curriculum vitae for the individual. All nomination materials will be retained by SEAC. Once nominated, any individual will be considered for the Reilley Award for three years without being renominated. The submission of any additional supporting information or a renomination is welcome at any time, however, **the decision for the 2018 Award will be based upon the material that is available to the award committee by the 1st of March 2017.**

Sponsored by Pine Research Instrumentation (https://www.pineresearch.com/), the *Royce W. Murray Award* recognizes accomplishments by researchers who are within the first ten years of their career. The SEAC Young Investigator Award was renamed in 2014 in honor of Professor Royce W. Murray, who counts among his many honors the 1988 Charles N. Reilley Award. The decision to change the name of the award was based on Professor Murray's long history of outstanding and inspiring research and, importantly, his mentoring and supporting young electroanalytical chemists. The latter included his undergraduate and graduate research students, postdoctoral associates, colleagues at the University of North Carolina, and other scholars who visited his laboratory over a career that has spanned more than 50 years. In addition, Prof. Murray has generously given his time to informally mentor three generations of young electrochemists who did not have a direct association with his research group. These activities have helped to ensure the vitality of the field of electrochemistry generally, and electroanalytical chemistry in particular.

For the SEAC Royce W Murray Young Investigator Award (YIA), nominees must be within **ten** years of having obtained their Ph.D. or other terminal degree. Candidates may be nominated by any member of SEAC. Nominations should include a letter describing the individual's promise in the area of electroanalytical chemistry, at least one seconding letter of support, and a curriculum vitae for the individual. All nomination materials will be retained by SEAC. Once nominated, an individual will be considered for the Murray Award without being renominated for three years, unless the nominee is more than ten years past awarding of their Ph.D. or other terminal degree. The retained nominations can be updated annually by the nominator as needed to best reflect the nominee's accomplishments to date. **The decision for the 2018 Murray Award will be based upon the material that is available to the award committee by the 1st of March 2017.**

Nominations should be emailed as a single pdf file to the SEAC Awards Committee Chair:

Prof. Héctor D. Abruña
Department of Chemistry & Chemical Biology
Cornell University
Ithaca, NY 14853-1301
Tel: 607-255-4720
Email: hda1@cornell.edu

APPLICATIONS FOR 2017 SEAC STUDENT TRAVEL AWARDS – DUE DATE: FEBRUARY 24, 2017

The SEAC Graduate Student Travel Grants, sponsored by CH Instruments (http://www.chinstruments.com/), Gamry Instruments (https://www.gamry.com/), and Pine Research Instrumentation (https://www.pineresearch.com/), are awarded to promising graduate students to offset the cost of travel to the Pittsburgh Conference to deliver an oral or poster presentation in a Conference symposium. The presentation, unless otherwise noted, should be on a topic related to their dissertation or thesis, and in some area or application of electroanalytical chemistry.

Because the costs in various venues of the Conference may vary, the amount of the awards will be determined by SEAC and will typically be between $250 and $500. The value of all of the awards in any one year will be equivalent, but it may vary from year to year. The award will not exceed the reasonable cost of advance-purchase economy airfare and reasonable expenses for lodging, nor the awardee's actual expenses. In order to spread the travel money as equitably as possible, not more than two awardees will be selected from any one research group and no more than three awards will be made to students from any one educational institution.

This year, thanks to an additional donation from Gamry Instruments, SEAC is again accepting applications for an *Electrochemical Impedance Spectroscopy* (EIS) Travel Grant. This travel award is for graduate students who use EIS and will present their results at Pittcon 2017. The award will cover the cost of registration plus $500 towards travel. (Note: For this award, please indicate **on the application that you are "*applying for the EIS Travel Grant.*"**)

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. **The decision for the 2017 SEAC Student Travel Awards will be based upon the material that is available to the award committee by the 24th of February 2017.**

Nominations should be emailed as a single pdf file to the SEAC Awards Committee Chair:

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Department of Chemistry & Chemical Biology
Cornell University
Ithaca, NY 14853-1301
Tel: 607-255-4720
Email: hda1@cornell.edu

THE ELECTION RESULTS ARE IN!!

The new members of the SEAC Board of Directors for 2017-2022 are Anne Co, Charles Henry, and Joaquin Rodriguez-López. They will assume their new roles on July 15, 2017.

PITTCON 2017–MARCH 5–9

Charles N. Reilley and Young Investigator Awards Symposium

The highlight of the SEAC activities at Pittcon will be the presentation of the 2017 Charles N. Reilley Award to Juan M. Feliu, University of Alicante (Spain), and the Royce W. Murray Award to Joaquín Rodríguez-López, University of Illinois at Urbana-Champaign. The symposium in their honor has been arranged by Héctor Abruña, Cornell University, and will be held 1:30 to 4:55 PM on Monday, March 6, 2017, in Room W183b of the McCormick Center, Chicago IL.

1:30 PM Introductory Remarks – Shelley Minteer
1:35 PM Presentation of the 2017 SEAC - Charles N. Reilley Award to Juan M. Feliu, University of Alicante, by Shelley D. Minteer, SEAC President
1:40 PM Single Crystal Reactivity as In-Situ Analytical Characterization Tool of Platinum Surfacs, Juan M. Feliu, University of Alicante
2:15 PM New Views of Platinum Surface Electrochemistry, Marc Koper, Leiden University
2:50 PM Thermodynamic Studies of Electrochemical Interphases: Application to Platinum Single Crystal Electrodes, Victor Climent, University of Alicante, Ricardo Martinez-Hincapie, Paula Sebastian-Pascual, Juan M. Feliu
3:25 PM Recess
3:40 PM Presentation of the 2017 SEAC - Royce W Murray Award to Joaquín Rodríguez-López, University of Illinois at Urbana-Champaign, by Shelley Minteer, SEAC President
3:45 PM Versatile Electrochemical Probes for Emerging Concepts in Energy Materials, Joaquín Rodríguez-López, University of Illinois at Urbana-Champaign
4:20 PM Electrochemistry of Nanobubbles, Henry White, University of Utah, Sean R. German, Martin A. Edwards, Qianjin Chen

SEAC Reception, Banquet, Board-of-Directors Meeting and General Membership Meeting at PITTCON

Once again, SEAC will sponsor a reception and a dinner at PITTCON. This year they will take place on **Monday, March 6th** at **Public House, 400 N. State St**. The restaurant is at a fairly central location, very close to a shuttle drop off (**Route #2/Green Pittcon Shuttle to "Hotel Chicago" Stop, walk 1 block**).

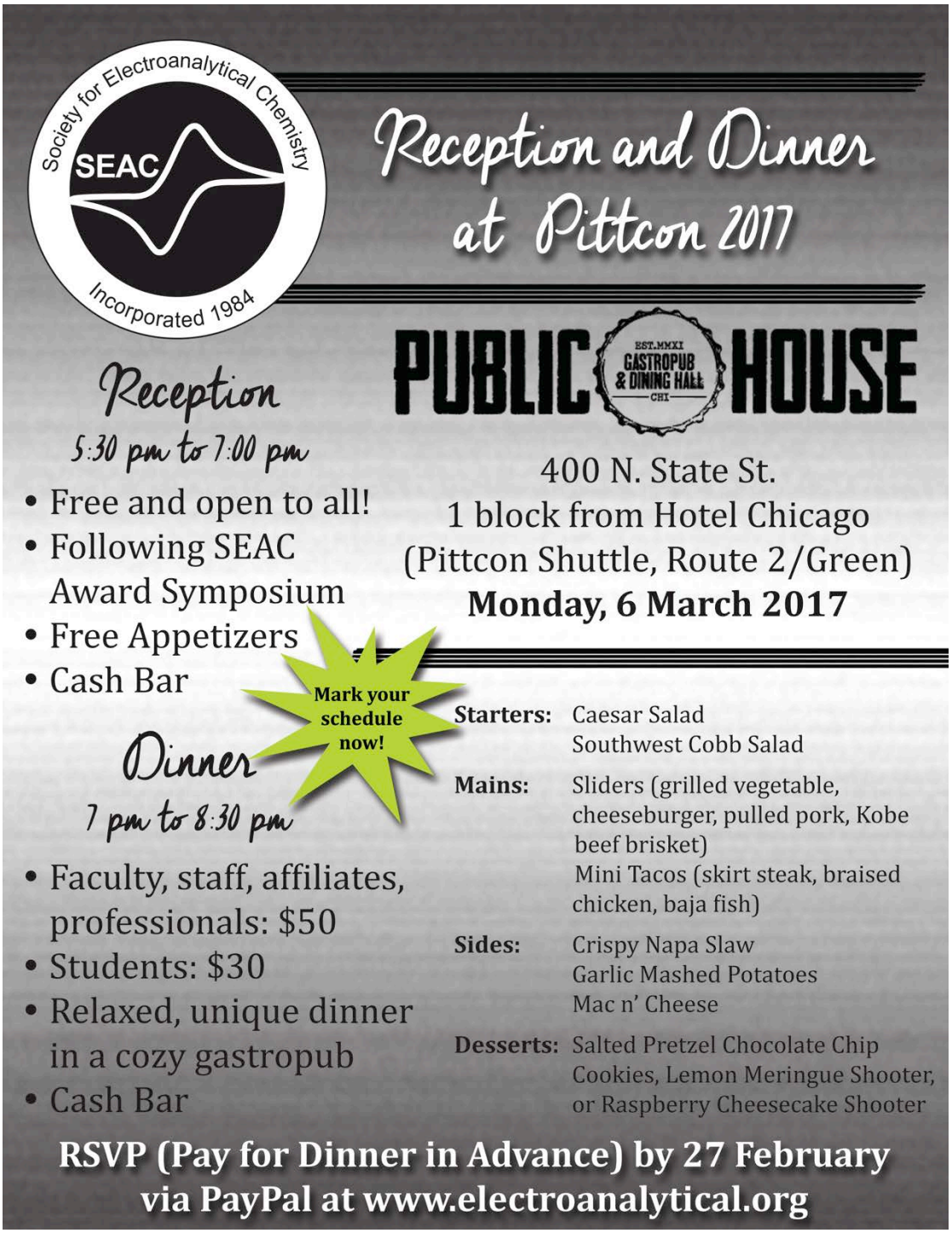
The reception (5:30-7:00 PM) will feature free appetizers and a cash bar, and open to all. The reception is a great networking opportunity and a chance to catch up with friends in the electrochemistry community. Mingle, network, have fun, relax, invite your electrochemically-minded colleagues and students.

The banquet honoring our Reilley and Murray Award recipients (7:00-8:30 PM) will also take place at Public House. Faculty, staff, affiliates and professionals may sign up in advance for $50 for the dinner. This year, to increase student/postdoc participation, we are subsidizing the cost of student/postdoc dinner and they may sign up for $30. Relaxed, unique dinner in a cozy gastropub; like an extension of the reception but slightly more formal. **Reservations and payments via PayPal should be made on the**

SEAC membership site at http://electroanalytical.org/membership.html **by February 27th**. (Scroll down to the "Payments" section to enter your payment info.)

Menu is less traditional. It will be buffet, plenty of food, but a wide variety of smaller bites:

- Starters: Caesar Salad, Southwest Cobb Salad
- Mains: Sliders (grilled vegetable, cheeseburger, pulled pork, Kobe beef brisket); Mini Tacos (skirt steak, braised chicken, baja fish)
- Sides: Crispy Napa Slaw, Garlic Mashed Potatoes, Mac 'n Cheese
- Desserts: Salted Pretzel Chocolate Chip Cookies, Lemon Meringue Shooter, Raspberry Cheesecake Shooter



The Board-of-Directors meeting is scheduled from **6:00 pm** to **7:30 pm** on **Sunday, March 5, 2017**, in Room **S102BC** of the McCormick Center. Former members of the Board are always welcome to attend. *(Directions to the Board meeting: There's a sky bridge that connects the West Hall Level 3 to the South Hall Level 3 so walk across that sky bridge, descend 2 levels and then walk to the right a short distance to get to room S102BC.)*

The general membership meeting for SEAC is scheduled to take place immediately following the Charles N. Reilley/Royce W. Murray Awards Symposium on Monday, March 6, 2017 in Room W183b of the McCormick Center. The meeting should begin shortly after the final talk (around 4:55 pm) and it is open to all attendees.

Student-Faculty-Industry Networking: Getting Students Prepared for their Careers

Tuesday, March 7, 2017, 10:30 AM - 12:00 PM, McCormick Place (W186C), Chicago, IL.

The goals of this networking session are to (1) facilitate discussions between students and professionals in academia and industry, and (2) answer student questions on career or graduate school preparation. Undergraduate and graduate students are encouraged to attend. Various faculty and industrial members from the Society for Electroanalytical Chemistry will attend to meet with students.

The session will be facilitated by Erin Gross, an Associate Professor of Chemistry at Creighton University, and Maral Mousavi, a postdoctoral researcher at Harvard University. The facilitators will make sure that tables consist of a mixture of students and professionals, and will facilitate small group discussions by posing questions to both students and professionals. A few sample questions include, "What challenges do students see in preparing for their desired career?" "What advice do professionals have for students who are looking into jobs or graduate school?"

Students and postdoctoral scholars are invited to attend the career development section at Pittcon 2017! **Please RSVP at mmousavi@gmwgroup.harvard.edu**.
Questions and suggestions can be submitted to Maral Mousavi (mmousavi@gmwgroup.harvard.edu).

Electrochemistry Sessions at Pittcon 2017 (Including Poster Sessions)

SUNDAY AFTERNOON, MARCH 5
- *Session 80* Carbon Nanomaterial-Enabled Microsensing Technologies, Room W181C, 1:30 PM
- *Session 120* Ionophore-Based Chemical Sensors I, Room W184bc, 1:30 PM
- *Session 180* Measuring Dopamine and Serotonin in Vivo, Room W176b, 1:30 PM
- *Poster Session 230* ACS-DAC Poster Session, Room West 375a

MONDAY MORNING, MARCH 6
- *Session 310* Ionic Liquids for Electroanalysis and Gas Sensors, Room W181b, 8:30 AM
- *Session 320* Label-Free Detection for Microfluidic Bioanalyses, Room W181c, 8:30 AM
- *Session 360* Ionophore-Based Chemical Sensors II, Room W184bc, 8:30 AM
- *Poster Session 480* Electrochemistry, Room Exposition Floor, Aisle 2500-2600

MONDAY AFTERNOON, MARCH 6
- *Session 560* **SEAC** - Charles N. Reilley and Royce W. Murray Awards, Room W183b, 1:30 PM
- Session *590* Frontiers in Sensors: From Ultrasensitive to Single Molecule Devices, Room W179b, 1:30 PM
- *Session 770* Sensors - Bioanalytical, Room W476, 1:30 PM
- *Poster Session 840* Sensors, Exposition Floor, Aisle 2500-2600

TUESDAY MORNING, MARCH 7

- *Session 890* In Vivo Neurochemistry: Faster, Smaller, More Sensitive Methods for Real-Time Neuroanalysis, Room W179a, 8:30 AM
- *Session 930* Single Nanoparticle Electrochemistry, Room W181a, 8:30 AM
- *Session 960* Electrochemistry at Nanoscale Structures, Room W184a, 8:30 AM
- *Session 1020* Biomedical – Sensors, Nanotechnology and Microfluidics, Room W176a, 8:30 AM
- *Session 1060* New Approaches to Understanding Brain Function, Room W184d, 8:30 AM
- *Poster Session 1100* Bioanalytical - Electrochemistry, Exposition Floor, Aisle 2500-2600

TUESDAY AFTERNOON, MARCH 7

- *Session 1220* IAEAC – Novel Sensor Strategies for the Quantification of Biogenic Amines, Room W181c, 1:30 PM
- *Session 1260* Recent Innovations in Nanosensing, Room W178b, 1:30 PM
- *Session 1290* **SEAC** - The Student Session in Electroanalysis, Room W176c, 1:30 PM
- *Session 1300* Bioanalytical - Electrochemistry, Room W175a, 1:30 PM
- *Session 1390* Sensors – Bioanalytical, Biomedical, Pharmaceutical and Clinical/Toxicology, Room W476, 1:30 PM
- *Poster Session 1400* Bioanalytical – Sensors and Lab on-a-Chip, Exposition Floor, Aisle 2500-2600

WEDNESDAY MORNING, MARCH 8

- *Session 1520* Nanotechnology and Bioanalytical Chemistry, Room W181b, 8:30 AM
- *Session 1530* Pharmaceutical Applications of Microfluidics, Room W181c, 8:30 AM
- *Session 1560* Wearable and Point-of-Care Sensor Technologies for Biomonitoring, Room W184d, 8:30 AM
- *Session 1620* Bioanalytical – Microfluidics/Lab on-a-Chip, Room W175c, 8:30 AM
- *Session 1680* Sensors – Environmental, Nanotechnology, and Food Safety, Room W475b, 8:30 AM
- *Poster Session 1770* **SEAC** Poster Session, Exposition Floor, Aisle 2500-2600

WEDNESDAY AFTERNOON, MARCH 8

- *Session 1790* The Ralph N Adams Award, Room W183b, 1:30 PM
- *Session 1840* Measurement at the Speed of Thought – New Analytical Approaches for Monitoring the Brain, Room W179b, 1:30 PM
- *Session 1890* Bioanalytical Methods to Study Neurological Disorders, Room W184d, 1:30 PM
- *Session 1900* PAI-NET – Highly Sensitive Detection of Biomolecules and Its Related Techniques, Room W176c, 1:30 PM
- *Session 1960* Nano-Electrochemistry, Room W176a, 1:30 PM
- *Poster Session 2120* Undergraduate Poster Session, Exposition Floor, Aisle 2500-2600

THURSDAY MORNING, MARCH 9

- *Session 2130* ACS-DAC – Unconventional Pipetting for Bio/Chem Analysis, Room W178b, 8:30 AM
- *Session 2150* Analytical Techniques for Probing Neurochemistry, Room W179a, 8:30 AM
- *Session 2240* Bioanalytical – Microfluidics/Lab on-a-Chip and Others, Room W175b, 8:30 AM
- *Session 2250* Bioanalytical Electrochemistry, Room W175c, 8:30 AM
- *Session 2260* Bio/Pharma Electrochemistry, Room W176a, 8:30 AM
- *Session 2300* Electrochemical Characterization of Corrosion and Water Oxidation, Room W184a, 8:30 AM
- *Session 2310* Electrochemical Investigations of Energy Storage Materials, Room W184bc, 8:30 AM
- *Session 2320* Environmental Applications of Electrochemistry, Room W184a, 8:30 AM
- *Session 2330* In-Vivo and Neuro Electrochemistry, Room W184d, 8:30 AM
- *Poster Session 2360* Microfluidics Methods, Exposition Floor, Aisle 2500-2600
- *Poster Session 2380* Nanotechnology Applications, Exposition Floor, Aisle 2500-2600

THURSDAY AFTERNOON, MARCH 9

- *Session 2430* In Vivo Neurochemistry – Applications of Single Cells to Behavior, Room W179a, 1:30 PM
- *Session 2460* Pharmaceutical Applications of Electrochemistry, Room W181b, 1:30 PM

- *Session 2510* Modified Carbon-Based Materials for Sensors, Arrays, and Catalysis, Room W184a, 1:30 PM
- *Session 2520* Bioanalytical – LC, Sensors, and Microscopy, Room W175a, 1:30 PM

Do you recognize the artist of the 3D voltammogram (from Jiri Janata)?

NEWS FROM MEMBERS

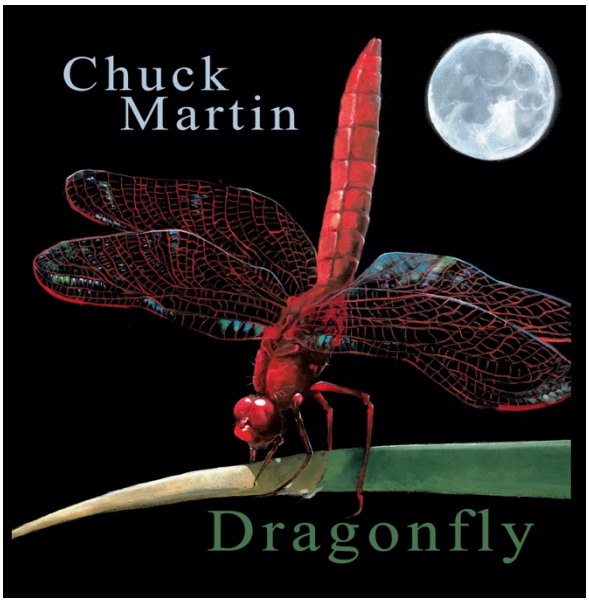
Prof. K. Arzum Erdem Gürsan was elected principal member of the Turkish Academy of Sciences (TÜBA) at its 49th General Assembly meeting on June 4, 2016. At the 50th TÜBA General Assembly meeting on December 10, 2016, a plaque was presented to Prof. Kadriye Arzum Erdem Gürsan by Deputy Minister of Science, Industry and Technology Assoc. Prof. Hasan Ali Çelik.

University of Florida Distinguished Professor of Chemistry and former Reilley Award winner, ***Charles R. Martin***, has just released his sixth album of original music. The album is called Dragonfly, and Martin says, “The songs are reminiscent of the show tunes and jazz standards I heard on my mom's radio when I was a kid, in particular the songs of Cole Porter, Duke Ellington and Johnny Mercer. But I cut my teeth on rock, blues and country music, so you hear these influences too in the Dragonfly songs”.

You can listen, stream and download all of the Dragonfly tunes at:

https://chuckmartin.bandcamp.com/album/dragonfly

Happy Listening!



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***
2017 CEC Annual Workshop on Electrochemistry	2017, Feb. 11–12	Austin, TX	http://cec.cm.utexas.edu/annual-electrochemistry-workshop
Pittcon 2017	2017, March 2–10	Chicago, IL	http://pittcon.org
20th ISE Topical Meeting	2017, March 19–22	Buenos Aires, Argentina	http://www.ise-online.org/annmeet/next_meetings.php
253rd ACS National Meeting	2017, April 2–6	San Francisco, CA	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
21st ISE Topical Meeting	2017, April 23–26	Szeged, Hungary	http://www.ise-online.org/annmeet/next_meetings.php
100 Years of Canadian Electrochemistry Conference, Canadian Society for Chemistry (CSC)	2017, May 28–June 1	Toronto, ON, Canada	http://www.csc2017.ca/
231st ECS Spring Meeting	2017, May 28–June 2	New Orleans, LA	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
XII ECHEMS Meeting	2017, June 6-9	Milano Marittima, Italy	http://sites.unimi.it/echems2017/
Matrafüred 2017: International Conference on Electrochemical Sensors	2017, June 11-16	Visegrad, Hungary	http://www.matrafured-conference.bme.hu
2nd Annual Next Generation Electrochemistry (NGenE)	2017, June 26-30	Chicago, IL	https://energyinitiative.uic.edu/energy/ngene
IUPAC-2017, Energy, Water and Environmental Sciences Symposium	2017, July 9-14	São Paulo, Brazil	http://www.iupac2017.org/index.php
68th ISE Annual Meeting	2017, Aug. 27–Sept. 1	Providence, RI	http://www.ise-online.org/annmeet/next_meetings.php
254th ACS National Meeting	2017, Aug. 20–24	Washington DC	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
232nd ECS Fall Meeting	2017, Oct. 1–6	National Harbor, MD	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
255th ACS National Meeting	2018, March 18–22	New Orleans, LA	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
233st ECS Spring Meeting	2018, May 13–17	Seattle, WA	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
17th International Conference of Electroanalysis - ESEAC2018	2018, June 3-7	Rodos, Greece	http://www.eseac2018.com/
256th ACS National Meeting	2018, Aug. 19-23	Boston, MA	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html

Meeting	*When*	*Where*	*Link for More Information*
69th ISE Annual Meeting	2018, Sept. 2–7	Bologna, Italy	http://www.ise-online.org/annmeet/next_meetings.php
AiMES 2018	2018, Sept. 30–Oct. 4	Cancun, Mexico	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm

2017 CEC Annual Workshop on Electrochemistry — Feb. 11-12, 2017

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 2017 CEC Annual Workshop on Electrochemistry will be held February 11–12, 2017 and will focus on three main topic areas: *Nitrogen Electrochemistry*, *Platinum Dissolution during Reduction*, **and** *Electrochemical Energy Conversion and Storage*. The Workshop will be held in the Robert A. Welch building on the University of Texas campus in Austin, Texas. Registration is now open! Please register early to secure your spot. Register here.

Symposium:

Saturday, February 11, 2017

Nitrogen Electrochemistry Session

Robert Hamers, University of Wisconsin
Photochemical Reduction of Aqueous Nitrogen to Ammonia at Diamond Surfaces

Lauren Greenlee, University of Arkansas
Heterogeneous Catalysts for Low-temperature Electrochemical Reduction of Nitrogen to Ammonia

Michael Janik, Penn State University
Density Functional Theory Studies of Electrocatalysis at the Electrode/Electrolyte Interface

Platinum Dissolution during Reduction Session

Marc Koper, Leiden University
New Views of Platinum Electrochemistry

Philippe Hapiot, Université de Rennes
The Reduction of Platinum in Dry Aprotic Solvents and the Production of OH during O_2 Reduction. Two Examples of the Unexpected Behaviors of Pt in Reductive Conditions

Michael Mirkin, Queens College, CUNY
SECM: How Low Can You Go?

Sunday, February 12, 2017

Electrochemical Energy Conversion and Storage Session

Yang Shao-Horn, Massachusetts Institute of Technology
Towards Mastering Oxygen Redox for Sustainable Energy Storage

Joaquín Rodríguez-López, University of Illinois at Urbana-Champaign
Digging Deeper into Ionic Reactivity: New Tools and Emerging Trends for Energy Storage Nanomaterials

Martin Bazant, Massachusetts Institute of Technology
Control of Phase Transformations in Rechargeable Batteries

Daniel Buttry, Arizona State University
Designer Ionic Liquids for Magnesium Batteries

Shannon Boetcher, University of Oregon
Oxygen Evolution Reaction Electrocatalysis: Redefining Intrinsic Activity Trends and Illustrating Design Principles

***Posters**:*

Attendees are invited to present posters at the poster session/reception scheduled for Saturday, February 11, 2017 from 4:30–7 pm. *To present a poster, you must first register for the Workshop. You don't 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 20, 2017***.** You can also email Stephanie Huntzis at stephanie.huntzis@cm.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, we have a limited number of spaces available for table exhibits at the poster session. Contact Stephanie Huntzis at stephanie.huntzis@cm.utexas.edu for more information.

2nd Annual Next Generation Electrochemistry (NGenE) — June 26-30, 2017

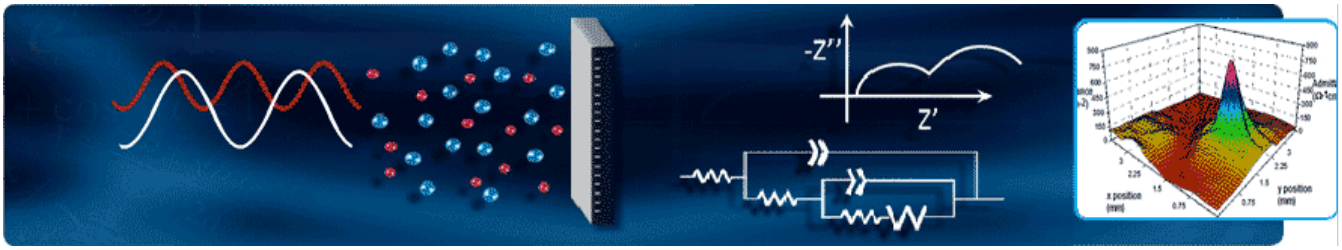
The University of Illinois at Chicago (UIC) presents Next Generation Electrochemistry (NGenE), a 1-week, student-centered, summer intensive workshop that explores the frontiers of electrochemical research. The program brings together approximately 25 graduate students with demonstrated interest and research experience in the field of electrochemistry, for an immersion experience with 10 renowned electrochemists from across North America. Admission to NGenE is competitive. There is no program fee for participation, and travel and lodging support is available to everyone participating in the program.

The program's primary objective is to introduce advanced students in electrochemistry to research at the frontiers of the field, with an emphasis on the identification of the critical gaps in our understanding of electrochemistry, and develop innovative strategies to address those gaps through collaboration and critical thinking. To achieve these objectives, the faculty will explore these topics through lectures on cutting-edge research, complemented with a site visit at Argonne National Laboratory. The students will carry out collaborative research projects during the week, where they will be challenged to develop innovative research methods under the guidance of faculty mentors.

The 2017 Edition will explore the theme *"Phenomena at electrochemical interfaces"*. The theme will be explored from multiple research angles. Faculty will present a series of critical questions that remain to be answered, while motivating their importance through past experience and future societal needs. Faculty will highlight the need for an accurate definition of chemical components at heterogeneous interfaces, down to the atomic level and under operating conditions. Emerging techniques to probe and model interfacial phenomena will be presented and discussed.

For more information, including an overview of the inaugural 2016 edition, and to apply, head to the NGenE website or contact Mr. Thomas Alaan at talaan@uic.edu.

EIS Short Course at Houston, TX: The 29th Annual Short Course on Electrochemical Impedance Spectroscopy: Theory, Applications, and Laboratory Instruction. (by Gamry) — April 24-28, 2017



Impedance spectroscopy is an extremely powerful non-destructive investigative technique that can obtain essential information about interfacial and bulk material parameters through the use of low energy, time varying electrical excitation. When applied to an electrochemical system, electrochemical impedance spectroscopy (EIS) can provide information on reaction parameters, corrosion rates, oxide characteristics and integrity, surface porosity, coating integrity, mass transport, and many other electrode/interface characteristics. EIS is one of the most powerful methods available in electrochemistry today and is utilized in research and development in essentially every technical sector, e.g., transportation and infrastructure, batteries and fuel cells, medicine, among many others. However, effective utilization of this method has been hindered by the lack of a comprehensive and cohesive explanation of the theory, measurement, and analysis techniques. This course on EIS has been developed to fill this void.

This short course, now in its 29th year, was first taught in 1988 in Charlottesville, Virginia. It has had the fortune of moving to the vibrant and technologically rich city of Houston, Texas. Please read more about our course on this website, or contact us either by e-mail or telephone.

Read more about the course at EISCourse.com.

10th anniversary of the founding of the Ralph N. Adams Institute for Bioanalytical Chemistry at the University of Kansas — May 19-20, 2017

Plans are underway for an event commemorating the 10th anniversary of the founding of the Ralph N. Adams Institute for Bioanalytical Chemistry at the University of Kansas on **May 19-20, 2017**. More information will be forthcoming on the Institute's website (http://adamsinstitute.ku.edu) in the coming weeks – in the meantime, please "save the date" on your calendars for this anniversary celebration!

232nd ECS Fall Meeting: Symposium on Spectro-electrochemistry — Oct 1-6, 2017

SEAC members Scott Shaw (Univ. of Iowa) and Luke Haverhals (Bradley Univ.) are co-organizing a spectro-electrochemistry symposium with Graham Cheek (US Naval Academy) and Andrew Hillier (Iowa State) at the upcoming meeting of the Electrochemical Society, Oct 1-6, 2017, National Harbor, MD. The symposium will provide an interdisciplinary forum to discuss spectroscopic techniques and results for the evaluation of electrode/electrolyte processes, as well new concepts and methodologies in the field of spectroelectrochemistry. Scott and Luke would like to encourage all members of SEAC with relevant research projects to consider submitting abstracts. Abstract submissions are due April 7th, and can be submitted at: https://ecs.confex.com/ecs/232/cfp.cgi.

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.

SEAC is now able to also accept donations of long-term appreciated securities (i.e., stocks, bonds or mutual funds), an approach that might be a tax-favorable form of a gift for the donor. Please contact the treasurer Petr Vanysek either by e-mail at pvanysek@gmail.com or by mail to Petr Vanysek, Treasurer, Society for Electroanalytical Chemistry, PO Box 173, DeKalb, IL 60115-0173 to discuss any details.