SEAC*communications*

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PRESIDENT'S MESSAGE

Dear SEAC Members,

A picture of Shelley Minteer, Dave Cliffel and Jim Burgess from the San Diego ECS meeting, showing that summer had not yet arrived in San Diego last week.

I hope that everyone is having a relaxing and productive summer. I saw many SEAC members in San Diego last week and it didn't appear as though summer had quite made it to San Diego, but hopefully it has arrived for most of the SEAC-ers. The 2017 Charles N. Reilley and Royce W. Murray Young Investigator Awards have been announced (see page 3 for more information). I would like to congratulate Juan Feliu for winning the Reilley Award and Joaquín Rodríguez-López for winning the Murray Young Investigator Award. I will be looking forward to an exciting Pittcon 2017 SEAC Award Symposium next spring in Chicago. I would like to remind everybody that the Pittcon abstracts must be submitted for Pittcon 2017 by August 12, 2016. We are planning another great SEAC Poster Session (see the smiling faces from the SEAC Poster Session 2016 in Atlanta on page 6), so please submit abstracts for both talks and the SEAC Poster Session before August 12. I also encourage all of you to start thinking about nominations for the 2018 Reilley and Murray awards. Have a GREAT summer!!!

Shelley Minteer
President, 2015-2017

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PITTCON 2017

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

The highlight of the SEAC activities at Pittcon 2017 will be the presentation of the 2017 Charles N. Reilley Award to **Juan Feliu**, University of Alicante, and the Royce W. Murray Award to **Joaquin Rodríguez-López**, University of Illinois, Urbana-Champaign. The symposium in their honor will be arranged by Hector D. Abruña, Cornell University.

Juan M. Feliu is a Professor of Physical Chemistry at the University of Alicante (Spain). He obtained his PhD at the University of Barcelona in 1978. His research interests deal with surface electrochemistry and electrocatalysis, aiming to establish relationships between the electrochemical reactivity of metallic electrodes and their surface structure and composition. Juan was the Director of the Institute of Electrochemistry of the University of Alicante from 2003 to 2012. He served as the President of the International Society of Electrochemistry (2005-2006), is the Editor-in-Chief of *Journal of Electroanalytical Chemistry* and received the Brian E. Conway Prize for Physical Electrochemistry in 2008.

Joaquín Rodríguez-López is an Assistant Professor of Chemistry at the University of Illinois at Urbana-Champaign. Originally from Mexico, he performed undergraduate studies with Prof. Marcelo Videa at Tecnológico de Monterrey, obtained a Ph.D. at the University of Texas at Austin with Allen J. Bard and did a post-doc with H.D. Abruña in Cornell University. Joaquin's group combines interests in electroanalytical chemistry and energy materials by developing chemically-sensitive methods for studying ionic and electronic reactivity in nano-structures, highly-localized surface features, and ultra-thin electrodes. As an emerging investigator, Joaquín aspires to build a dynamic group that creates original concepts for high-performance energy technologies.

PITTCON 2016–MARCH 6–10

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

The highlight of the SEAC activities at Pittcon was 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 was arranged by Richard M. Crooks, University of Texas at Austin, and was held at 1:30 – 4:55 PM on Monday, March 7, 2016, in the Georgia World Congress Center, Atlanta GA. (Photo Credits and Copyright Notice for the three left-side pictures: 2016 Roy Engelbrecht – royephoto.com)

Reginald Penner and James Hill

James Hill, Shelley Minteer, Reginald Penner

Shelley Minteer and Ryan White

Ryan White and Timothy Paschkewitz

(top row, from left) Lane Baker, Ryan White

(bottom row, from left) Richard Crooks, Reginald Penner, Charles Martin

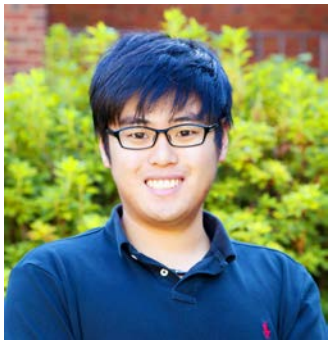
2016 SEAC STUDENT TRAVEL AWARD WINNERS

Winners of the student travel awards are **Jeffrey Dick**, University of Texas at Austin (advisor: Allen Bard), **Lars Dunaway**, North Carolina State University (advisor: Leslie Sombers), **Doug Kirpatrick**, University of North Carolina at Chapel Hill (advisor: Mark Wightman), **Cheng Yang**, University of Virginia (advisor: Jill Venton), and **Lushan Zhou**, Indiana University, Bloomington (advisor: Lane Baker). Congratulations to all of them!

Jeffrey E. Dick was born in Muncie, Indiana, and earned a Bachelor's in chemistry from Ball State University. He began his graduate work under Dr. Allen J. Bard at the University of Texas at Austin, where he has been studying single molecule and nanoparticle electrochemistry.

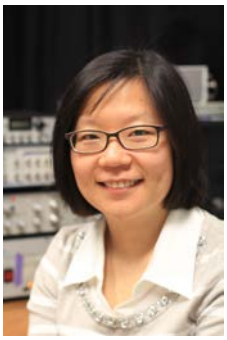
Lars Dunaway is a fourth year Ph.D candidate at North Carolina State University (NCSU). He received his Bachelor of Science from The College of William & Mary, performing undergraduate research all four years in inorganic synthesis, and is currently an NSF Graduate Research Fellow. Lars works in Leslie Sombers' research group in the Department of Chemistry, an interdisciplinary group comprising researchers from Chemistry, Biochemistry, Engineering, Biology and Physics. His research interests include developing new techniques and electrodes for use with fast-scan cyclic voltammetry to help understand the links between opioid peptides and catecholamine secretion in the central nervous system. He is also working to improve techniques for electrochemistry at single cells.

Douglas Kirkpatrick is an analytical chemistry graduate student at the University of North Carolina at Chapel Hill, where he works under the guidance of Dr. R. Mark Wightman. His research involves developing new analysis methods and techniques to apply to neurochemical investigations. Prior to attending UNC, Doug graduated from St. Louis University with a B.S. in Chemistry, where he worked for Dr. R. Scott Martin on PDMS-based microfluidics.

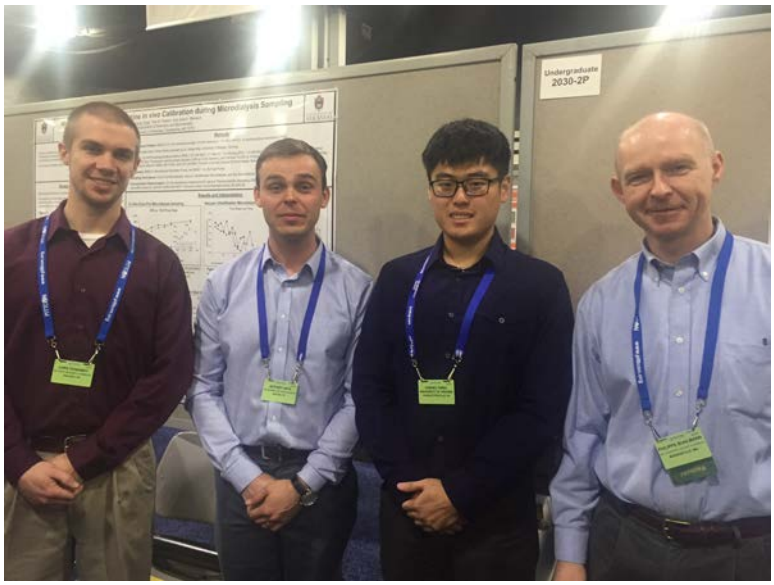


Cheng Yang is now a 4th-year graduate student with Adam Ritchie Fellowship in chemistry at University of Virginia under the mentorship of Dr. Jill Venton. With interdisciplinary interests in analytical chemistry, material science, and neuroscience, Cheng's research includes the development of implantable microsensors, design and nanofabrication for bio-molecule detection, physical and electrochemical characterization of coatings incorporating carbon nanomaterials, and the simulation of adsorption/diffusion at the neurochemicals and carbon nanomaterial interface. He is recently seeking for a position for the development of the microsensor design and nanofabrication.

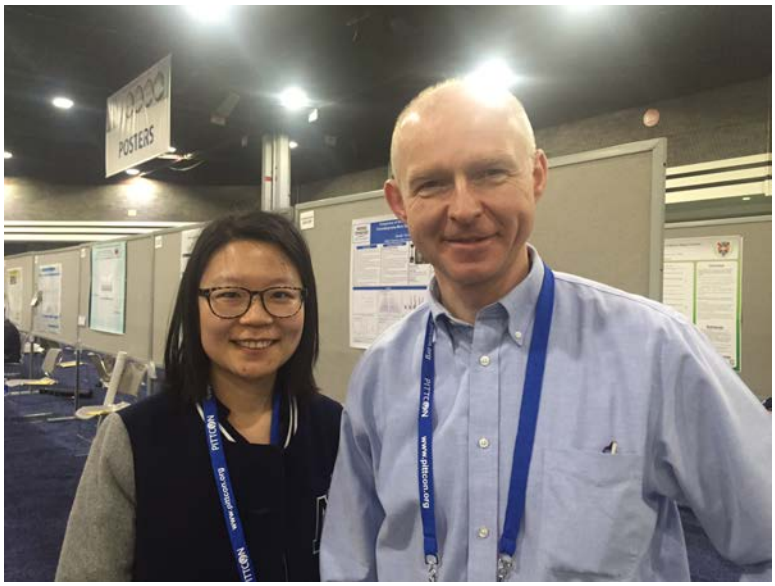
Lushan Zhou is a graduate student in the Baker group, Indiana University Bloomington. She completed her undergraduate research at the Peking University in China and continued graduate studies in 2012 at IU. Her dissertation research focuses on measurement of ion transport in biological systems at nanometer scales, especially with modified Scanning Ion Conductance Microscopy (SICM).



AT THE SEAC POSTER SESSION @ PITTCON 2016



From left to right: Lars Dunaway, Jeffrey Dick, Cheng Yang, Phil Buhlmann.



From left to right: Lushan Zhou, Phil Buhlmann.

SYMPOSIUM HONORING THE CAREER OF BILL HEINEMAN

A contribution by Adam Bange, Associate Professor of Chemistry, Xavier University

On May 18-21, the Central Region Meeting of the American Chemical Society (CERMACS) was held at the Northern Kentucky Convention center directly across the river from Cincinnati, Ohio. At this meeting, a special symposium was held honoring the career of Bill Heineman, a Distinguished Research Professor at the University of Cincinnati. The event featured two days of technical presentations that highlighted different aspects of Bill's career as a scientist and mentor. The first day was an electroanalytical program titled "Electroanalytical Chemistry in the Central Region" where an impressive range of electrochemistry topics were presented by noted electrochemists in and around the central region. The second component of the symposium was a series of presentations by former and current members of Bill's research group covering both academic and industry related topics. A highlight of the meeting was a banquet that was held Thursday evening featuring Bill's after dinner talk "52 Years of Electroanalytical Chemistry: from Dropping Mercury Electrodes to Spectroelectrochemical Sensors".

List of Speakers

Electrochemistry in the Central Region

Pete Kissinger (Purdue University)
Daniel Scherson (Case Western Reserve University)
Lane Baker (Indiana University)
Greg Swain (Michigan State University)
Shigeru Amemiya (University of Pittsburgh)
Frank Zamborini (University of Louisville)
James Cox (Miami University)
Harry Finklea (West Virginia University)
Richard Baldwin (University of Louisville)
Hang Ren, on behalf of Mark Meyerhoff (University of Michigan)

Heineman Group Members

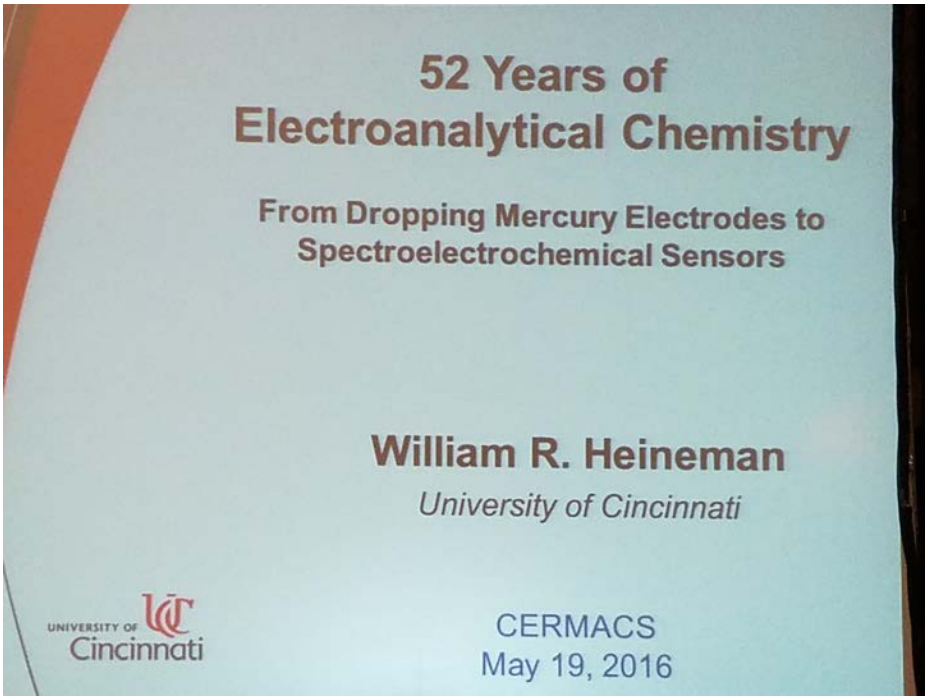
Maojun Gong (Wichita State University)

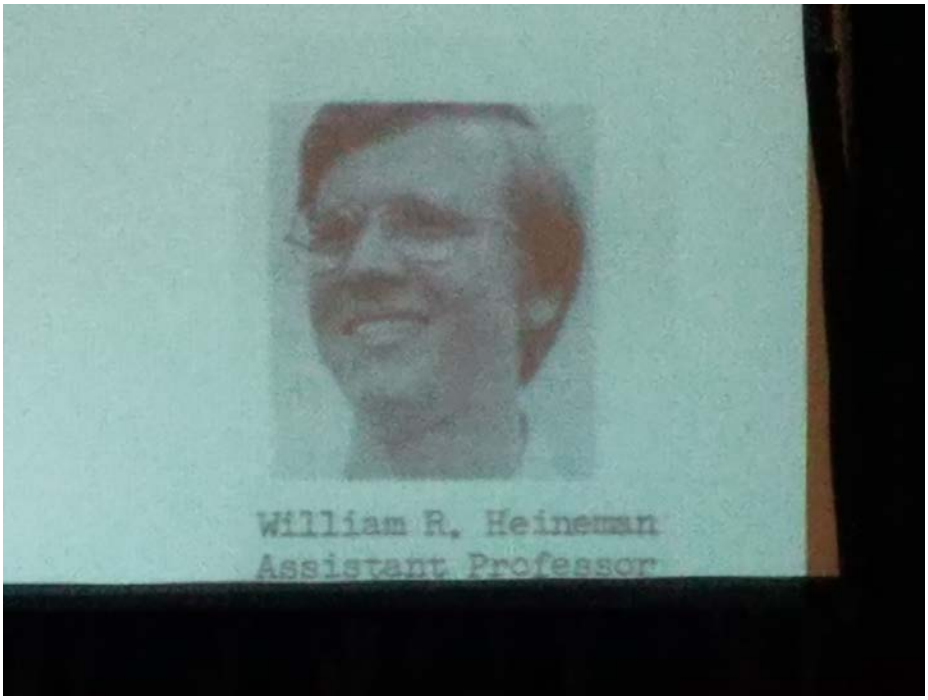
Supaporn Kradtap (Xavier University)
Shirmir Branch (University of Cincinnati)
Adam Bange (Xavier University)
Emory DeCastro (Advent Technologies)
Ken Wehmeyer (Procter and Gamble)
Pamela Schofield (Procter and Gamble)
Matt Doyle (Procter and Gamble)

Some photos from the banquet

Bill giving his presentation

The meeting organizer introducing last year's ACS president, who would then introduce Bill.





A contribution by Pete Kissinger, Professor of Chemistry, Purdue University, Founder of BASi

It was a great pleasure to recently honor one of the founders of SEAC, Bill Heineman, at the regional ACS meeting in Coventry, KY, across the river from Cincinnati. This gave me an excuse to write the following column for Drug Discovery News which we have permission to include here. Best wishes to everyone for a good summer.

Thanks to Bill for so much good work and mentoring so many students. - Pete Kissinger

Thin Matters

Peter T. Kissinger

I've never seen Bill Heineman in a boastful mood. Early this summer I was asked to contribute to a symposium honoring Distinguished Professor William R. Heineman of the University of Cincinnati who this year was awarded the top analytical chemistry recognition from the American Chemical Society. Bill and I first met as graduate students in Chapel Hill North Carolina in the summer of 1966. Just a few years earlier it was observed by chance that productive things happen if electrochemical experiments are confined to a thin layer of solution. Here diffusion was restricted to a film with a thickness on the order of 0.01-0.10 mm. For reference, a piece of copy paper is typically about 0.1 mm. Fifty years ago, this was a very novel idea. Once the news broke several years earlier, groups at Cal Tech and UNC were energized to think of how to do it and how to solve the associated diffusion equations in these liquid films. While it was long known that electrochemical reactions were heterogeneous and occurred only at atomic dimensions at surfaces, electroanalytical chemistry traditions of that day involved 50-100 mL cells operating such that reactions at electrode surfaces of a few square millimeters did not significantly alter the composition of the solution under study. As is often the case, this established dogma was very limiting.

Confining the solution in a film afforded some unique advantages. For one, the solution could be exhaustively reacted in a few seconds. For another, steady-state cycling could be performed with opposing electrodes. Total solution volumes of as little as 0.010 mL were very feasible. Bill, working with Prof. Royce Murray, pursued the idea of optically transparent thin-layer electrochemistry, which enabled optical interrogation of the conversion of reactant to product without interference from a large path length of non-participating solution. Electrodes could be very fine transparent grids. Ultimately transparent metal thin and semiconducting films were also explored along with both transmission and reflectance spectroscopy (specular and internal reflectance). This was all good fun. Technology developed for other purposes got put to use for entirely new and unexpected benefits.

In the hands of Bill's group, thin-layer spectroelectrochemistry became a means to determine the redox potentials for proteins with metal centers inaccessible to an electrode surface. It became helpful in studying bone imaging agents based on technetium. Working with radioactive materials suggested possible applications of electroanalytical chemistry in tracking superfund sites. Electrochemistry in small volumes suggested an alternative to radioimmunoassays based on electrochemistry to supply the signal. From there, enzyme linked electrochemical immunoassays were born in the Heineman lab and today are used in important point of care diagnostic measurements. Then others added electrochemiluminescent immunoassays to the armamentarium and they too are a commercial success today. Thin-layer electrochemical cells are sold in millions a week for home glucose monitoring. They are also used in automatically diming electrochromic rearview mirrors on millions of cars and trucks. Thin matters in many places such as liquid crystal displays, interstitial distances in chromatography columns, small diameters in capillary electrophoresis, microdialysis probes in tissue, detectors for chromatography, and channels in microfluidic devices. Fick's Laws of diffusion still work fine. Combining them with Nernst's equation (1888) and Faraday's Law of electrolysis (1834) has brought endless pleasure to scientists and productive results for millions of diabetics and truck drivers once blinded by the sun in their rearview mirrors.

In isocratic chromatography we say that the young peaks must be thin, while the more strongly retained older peaks can be a little chubby. I am happy to report that Bill Heineman is still thin, 5 decades after graduate school. Although he's taken on his last graduate student, the new ideas are still there and he's achieved everlasting life as his academic grandchildren contribute to advancing science with impact. We bond to people we served with on sports teams, in war, and in graduate school. Summer is a wonderful time to reconnect with those you served with and share perspective on how much has happened since then. Bill and I thank The USSR for stimulating science and engineering funding in the 1960s. Thin-layer electrochemistry owes a lot to the United States Air Force Office of Scientific Research (AFOSR) and so does the computer screen where you may be reading this column. Thank you Khrushchev.

NEWS FROM MEMBERS

Reginald Penner, University of California, Irvine, won the 2016 ACS Award in Electrochemistry.

Kadriye Arzum Erdem Gursan, Ege University, Turkey**,** won **"The science award** of Turkey in 2015 given by Turkish Science and Technology Research Council (TUBITAK)". The president of Turkey, Recep Tayyip Erdogan (left in the picture), gave the award in the ceremony.

http://www.tccb.gov.tr/en/news/542/37195/guclu-olmazsak-ve-guclu-bir-durus-sergileyemezsek-bizi-bu-cografyada-bir-gun-bile-barindirmazlar.html

http://www.tuba.gov.tr/news/tubitak-science-and-incentive-awards-to-tuba-members/id/1316

Amay Bandodkar is a graduate student in ***Prof. Joseph Wang***'s Laboratory for Nanobioelectronics, which is a part of the NanoEngineering department and Center for Wearable Sensors at University of California San Diego. Amay recently won the 2016 Metrohm Young Chemist Award for his work on advanced materials-based all printed wearable electrochemical devices for various sensing and energy harvesting applications. During his doctoral research, Amay has worked on developing stretchable and self-healing printable electrochemical sensors and bio-fuel cells that can be utilized for developing smart wearable devices. During his PhD, he has been working on developing printed wearable electrochemical sensors for non-invasive detection of glucose, lactate, sodium and pH directly on the human skin. He will soon be defending his thesis and will be joining Prof. John Rogers' group in Northwestern University to continue his work on wearable devices.

Jonathon Howell informed SEAC members of new products (graphene-coated materials) from Goodfellow.

New from Goodfellow: High-quality CVD graphene films for innovative applications

Through state-of-the-art chemical vapor deposition (CVD) methods, Goodfellow is able to offer a new line of exceptionally high quality graphene film for use as transparent conductors and in other electronics applications.

Standard graphene films available online include:

CVD graphene on copper foil
• Copper foil thickness: 0.035mm; Monolayer thickness: 2-3nm; Film morphology: continuous monolayer >95%

Ultra-clean graphene on SiO_2/Si Wafers
• Transfer by pressure-sensitive adhesive films

Graphene on PET
• For maximum flexibility

Graphene on quartz glass
• Transfer by hot pressing

For pricing and details, click here.

In addition to offering standard samples online, Goodfellow can assist you with the transfer of graphene film onto your own substrate.

Graphene on PET
Graphene has good mechanical stiffness, strength and elasticity, as well as very high electrical and thermal conductivity. Applications are found in electronics, protective coatings, composites and more.

To see Goodfellow's full range of metals, ceramics, polymers, composites and other materials for research and industry, visit the comprehensive Goodfellow catalog at goodfellowusa.com.

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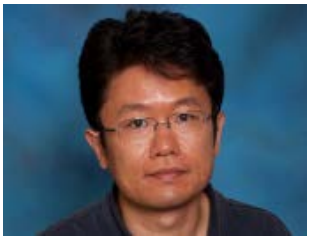
Fax: 1 800 283 2020

Li Sun from Pine Research Instrumentation gave a short course at the 229th ECS Meeting in San Diego, CA. The course helped participants appreciate the usefulness of rotating electrode techniques and their wide reach in applications such as catalyst screening, corrosion inhibitor testing, and electroplating. A hands-on demonstration of the well-known Levich experiment was conducted, and useful kinetic information (e.g., exchange current density and the number of electrons transferred in the rate-determining step) was extracted from raw data. Participants learned how to quantify and separate two major processes in electrode kinetics: electron transfer and mass transport. During the live demo of the Levich experiment, noise was observed in raw data, and the instructor had to deal with this unplanned event. The instructor was able to eliminate the noise, and the participants learned a valuable lesson in troubleshooting noisy data. The instructor also learned a valuable lesson: it is easy to talk about how to troubleshoot a problem in principle, but it is more difficult to actually solve a problem under the watchful eyes of students in minutes.

SPECIAL THANKS TO NEW LIFETIME MEMBERS!

Special thanks go to Jinwoo Park (Assistant Professor, Department of Biotechnical and Clinical Laboratory Sciences, University at Buffalo) and Shigeru Amemiya (Associate Professor, Department of Chemistry, University of Pittsburgh), who all have 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***
Penn State University Corrosion Short Course Co-Sponsored by Gamry	2016, June 5–10	University Park, PA	https://www.gamry.com/news-and-announcements/general-news/penn-state-university-corrosion-short-course/
6th Baltic Electrochemistry Conference: Electrochemistry of Functional Interfaces and Materials	2016, June 15–17	Helsinki, Finland	http://chemistry.aalto.fi/en/current/6th_electrochemistry_meeting/
10th International Symposium on Electrochemical Impedance Spectroscopy	2016, June 19–24	A Toxa, Spain	http://eis10th.webs.uvigo.es/
GRC in Bioanalytical Sensors	2016, June 26–July 1	Newport, RI	http://www.grc.org/programs.aspx?id=14001

Meeting	***When***	***Where***	***Link for More Information***
14th International Conference on Electrified Interfaces	2016, July 3–8	Singapore, Singapore	http://www.lancaster.ac.uk/icei2016/
XXXVIII Annual Workshop On Electrochemical Measurements	2016, Aug. 15–19	Cleveland, OH	http://chemistry.case.edu/department/research/yces/
Electrochemical Methods for Nanotechnology	2016, Aug. 17–19	Brussels, Belgium	http://www.surfgroup.be/emnt2016-17-19-august-2016
252nd ACS National Meeting	2016, Aug. 21–25	Philadelphia, PA	http://www.acs.org/content/acs/en/meetings/fall-2016.html
67th ISE Annual Meeting	2016, Aug. 21–26	The Hague, Netherlands	http://annual67.ise-online.org/
Single Entity Electrochemistry: Faraday Discussion	2016, Aug. 31–Sept. 2	York, United Kingdom	http://www.rsc.org/events/detail/17425/
Kurt-Schwabe-Symposium	2016, Sept. 4–7	Mittweida, Germany	http://dechema.de/events/en/KS2016.html
Electrochemistry 2016	2016, Sept. 26–28	Goslar, Germany	https://www.gdch.de/index.php?id=2690
2nd International Meeting on Electrogenerated Chemiluminescence	2016, Sept. 29–31	Bordeaux, France	http://ecl2016.sciencesconf.org/
PRiME 2016 (ECS)	2016, Oct. 2–7	Honolulu, HI	https://ecs.confex.com/ecs/230/cfp.cgi
MUACC 2016 Midwest Universities Analytical Chemistry Conference	2016, Oct. 13–15	Champaign, IL	http://muacc.scs.illinois.edu
51st ACS Midwest Regional Meeting	2016, Oct. 26–28	Manhattan, KS	http://www.mwrm2016.org/
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
231st ECS Spring meeting	2017, May 28–June 2	New Orleans, LA	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
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
69th ISE Annual Meeting	2018, Sept. 2–7	Bologna, Italy	http://www.ise-online.org/annmeet/next_meetings.php

Penn State University Corrosion Short Course Co-Sponsored by Gamry — June 5-10, 2016

The annual Penn State University Corrosion Short Course will be held at Penn State University Park Campus on June 5-10. The course, now in its 20th year, will cover the fundamentals of corrosion and various electrochemical techniques. Lectures and laboratories will be used to illustrate how electrochemical techniques are applied, when they should be used, and how the various techniques can be integrated to solve complex problems. The course will be useful for people entering the corrosion field and for professionals looking for a refresher course. Please explore the website for more information: https://www.gamry.com/news-and-announcements/general-news/penn-state-university-corrosion-short-course/

XXXVIII Annual Workshop On Electrochemical Measurements: Theory and Hands-On Experiments — Aug. 15-19, 2016

XXXVIII Annual Workshop on Electrochemical Measurements will be held at Case Western Reserve University on August 15-19, 2016.

Principal Lecturers: Prof. Daniel A. Scherson (Case Western Reserve University)
Prof. Henry S. White (University of Utah)

Guest Lecturers: Prof. Uziel Landau (Case Western Reserve University)
Prof. Mark E. Orazem (University of Florida)
Prof. Gerald Frankel (Ohio State University)
Prof. Robert Savinell (Case Western Reserve University)

All detailed information can be found on the website http://chemistry.case.edu/department/research/yces/

11th International Symposium on Electrochemical Micro & Nanosystem Technologies (EMNT 2016) — Aug. 17-19, 2016

While in surface analysis we have a full range of methods to characterize from the bulk to atomic scale, electrochemical techniques are still lacking in resolution and quantified analysis. In the last decades a group of scanning electrochemical techniques (microcapillary cell, SVET, SECM, SIET, EC-AFM, EC-STM...) have been used to study electrochemical phenomena at the micro- and nanoscale. The conference is devoted to the progress and applications of these methods and on the discussion of their success, but also their reliability. EMNT2016 is the continuation of the series of successful symposia held in Grevenbroich (1996), Tokyo (1998), Garmisch-Partenkirchen (2000), Düsseldorf (2002), Tokyo (2004), Bonn (2006), Ein-Gedi (2008), Cannes Mandelieu (2010), Linz (2012) and Okinawa (2014). This year, it will be organized in Brussels as a satellite meeting of the 67th ISE Meeting, held in Den Hague (The Netherlands) from August 21-26. The deadline for the abstracts submission is the **1st of June 2016**. All detailed information can be found on the website www.surfgroup.be/emnt2016

252nd ACS National Meeting: Symposium "Metal and Semiconductor Nanoclusters with Atomic Precision: Fundamentals and Applications"

Rongchao Jin (*Carnegie Mellon Univ.),* Gangli Wang (*Georgia State Univ.*), Jie Zheng (*Univ. Texas, Dallas*) and Matthew Sfeir (*Brookhaven National Lab*) are organizing a symposium for the 252nd ACS National Meeting (Philadelphia, PA). This symposium will focus on the research advances in metal and semiconductor nanoclusters, ranging from the synthesis to studies of fundamental properties and applications. Atomically precise nanoclusters have provided many opportunities for discovering new properties and developing exciting applications and are expected to serve as paradigm systems to shed light on the unsolved issues in metal/semiconductor nanoparticles such as nucleation, size evolution and precise surface chemistry. This symposium will bring together experimentalists and theoreticians in hope of fostering collaborations between researchers from various disciplines. The multi-day sessions will blend the synthesis people in new materials making, experimentalists specialized in physicochemical measurements and function studies, and theoreticians providing insights in the electronic structures for structure-function correlations.

MUACC 2016 — Oct. 13-15, 2016 – University of Illinois at Urbana-Champaign

The Midwestern Universities Analytical Chemistry Conference (MUACC) is a gathering of analytical chemists organized on a yearly basis on a traveling location in this broad area of the USA. MUACC has witnessed major developments in analytical chemistry and uses the conference as an instrument of modernization. Attracting scientists at all levels - including faculty from small and large research universities, undergraduate institutions, industrial laboratories, as well as postdoctoral and graduate students - MUACC helps shaping the future of analytical chemistry by discussing the current state of the art, identifying new research trends, and introducing new scientists to the community. MUACC 2016 will be hosted by the Department of Chemistry at the University of Illinois at Urbana-Champaign. We are now open for registration and abstract submission. Oral presentations are given as "chalk-talks" in order to foster creativity and open interactions between attendants. Please visit **http://muacc.scs.illinois.edu** for more information. Travel grants for early career scientists/post-docs are available. Please contact Joaquin Rodriguez-Lopez (joaquinr@illinois.edu) for questions.

51st American Chemical Society's Midwest Regional Meeting (ACS-MWRM): Symposium "Novel Electrode Materials and Architectures for Energy and Sensing Applications" — Oct. 26-28, 2016

Jun Li (Chemistry, Kansas State Univ.), Judy Wu (Physics & Astronomy, Univ. Kansas) and Takashi Ito (Chemistry, Kansas State Univ.) are organizing a one-day symposium for the 51st ACS-MWRM (Oct. 26-28 @ Manhattan, KS) entitled "**Novel Electrode Materials and Architectures for Energy and Sensing Applications**". This symposium will provide an interdisciplinary forum for researchers in the Midwest region to present their recent achievements on the energy and chemical/biochemical sensing applications of novel electrode materials and architectures. The topics will include, but are not limited to, electrochemical approaches to controlled fabrication of novel functional nanomaterials, electrochemical characterization of electrode materials for energy-related applications, and chemical/biochemical sensing with novel electrode materials and architectures.

Invited Speakers: Chunmei Ban (Materials, National Renewable Energy Laboratory), Xiaobo Chen (Chemistry, Univ. Missouri, Kansas City)**,** Francis D'Souza (Chemistry, Univ. North Texas)**,** Ingrid Fritsch (Chemistry, Univ. Arkansas)**,** Li Qun Gu (Bioengineering, Univ. Missouri, Columbia)**,** Michael A. Johnson (Chemistry, Univ. Kansas)**,** Rebecca Y. Lai (Chemistry, Univ. Nebraska, Lincoln)**,** Scott K. Shaw (Chemistry, Univ. Iowa), and Jay A. Switzer (Chemistry, Missouri Univ. Sci. and Technol.)**,**

JOB OPENING

Assistant Professor (Electroanalytical/Sensors), Department of Chemistry, University of Cincinnati

The Department of Chemistry at the University of Cincinnati invites applications for a tenure-track position at the rank of Assistant Professor, to begin in the 2017-18 Academic Year. A Ph.D. in Chemistry or closely related field is required and one year of post-doctoral experience is preferred. The successful candidate is expected to develop and maintain a vigorous externally-funded electroanalytical chemistry or chem/biosensors research program, aspire to be visible at the national/international levels, and be an enthusiastic and effective educator at all levels. The Department of Chemistry has outstanding facilities and infrastructure to support research and local collaborative interactions.

Qualified and interested applicants must apply online via our website at https://jobs.uc.edu. Search for Faculty Requisition #8066. Applicants must complete an online application and include the following documents: a cover letter, a detailed 3-5 page statement of proposed research program, a 1-2 page statement of teaching philosophy and interests, a curriculum vitae and contact information for three references. In addition, applicants should arrange to have letters of recommendation from their three references sent directly to the Department of Chemistry via electronic mail to kim.carey@uc.edu (preferred) or by paper mail. Review of applications will begin October 1, 2016 and continue until the position is filled.

The University of Cincinnati is an affirmative action/equal opportunity employer with a strong commitment to diversity. We actively seek a broad spectrum of candidates including women, people of color, people with disabilities and veterans. UC is the recipient of a NSF-Advance Grant for the advancement of women faculty in Science and Engineering.

The University of Cincinnati is an Affirmative Action / Equal Opportunity Employer / M / F / Vet / Disabled.

Postdoctoral Research Position @ University of Pittsburgh

A postdoctoral position is available in the Amemiya group at the Department of Chemistry in the University of Pittsburgh (http://www.pitt.edu/~amemiya). Candidates must have a Ph.D. in chemistry or related field and preferably strong background in electrochemistry. Candidates who have experience in scanning probe microscopy are strongly encouraged to apply. Please submit your CV with names of three references to Prof. Shigeru Amemiya by e-mail (amemiya@pitt.edu).

Postdoctoral Research Position @ the University of Illinois at Urbana-Champaign

A postdoctoral position is available in the Rodriguez-Lopez group (http://www.scs.illinois.edu/rodriguez-lopez). Candidates must have a Ph.D. in chemistry. A strong background in synthetic organic electrochemistry or polymer electrochemistry, and use of dry-box techniques is highly desirable. Please submit an e-mail to joaquinr@illinois.edu for more information.

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.