SEAC*communications*

Volume 31, Number 2, May 2015

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PRESIDENT'S MESSAGE

Dear Members and Friends of SEAC,

Wow, my time as President is just about over: it feels as though it just began. It's been a pleasure and I wish to thank everyone who has supported the Society over the past two years. Faye has been indispensable as Secretary: it's a bit terrifying to know there are such organized people in the world! Petr has done a spectacular job as our Treasurer, which is a difficult and critical post. Phil and Sam have been tireless as Newsletter and Web Editors, respectively. And the Society simply wouldn't function without the Committee Chairs: Tim, Mark, Jon, Frank, and Jill. Finally, of course, the members. What a wonderful group of people!

I want to congratulate again all our award winners over the past two Pittcons. You are inspirations and role models to all of us: thank you for your contributions to Electroanalytical Chemistry.

I would like to mention two noteworthy recent happenings. First, the Society renamed the Young Investigator Award in honor of Prof. Royce Murray. This was an excellent idea brought to the board by Dick Crooks: thank you Dick. Second, the Society launched a fundraising campaign: I thank everyone who has contributed thus far and I urge you, if you have not yet done so, to consider doing so. I am sure we all agree that the Society performs a valuable function, well worth securing for the future.

As you likely know by now, and as mentioned later in this Newsletter, we lost Craig Lunte a short while ago. I was shocked and saddened by this news and I know I was not alone. Craig was a great guy, a great friend, and a great scientist and our thoughts and condolences are with Sue and the Lunte family as well as Craig's friends and colleagues at Kansas and, indeed, around the world.

I will end by wishing Shelley and the SEAC's Board, officers, and committees every success for the coming years.

Very best regards to everyone, thank you for allowing me to be your President,

Adrian C. Michael
President, 2013-2015

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CHANGES ON THE EDITORIAL BOARD

A Warm Welcome To Associate Editor Takashi Ito

With this issue, Takashi Ito from Kansas State University is joining the editorial board of the SEAC newsletter. Phil Buhlmann, who started as associate editor in 2010, will be working with Takashi over the next year before handing over the chief editorship to Takashi in summer 2016. Thank you Takashi for your willingness to serve SEAC.

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 (Advisor: 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 materials. He currently serves as an editorial board member for The Chemical Record (The Chemical Society of Japan and Wiley).

New Student Editor: Jeffrey E. Dick

Student editor ***Tessa Carducci*** (Murray lab, Department of Chemistry, University of North Carolina at Chapel Hill) has accepted a senior scientist position at Merck in Rahway, NJ, in analytical development and commercialization. She will be replaced as student editor by ***Jeffrey E. Dick***, whom we already know as SEAC student travel award winner. For his bio, see below *SEAC Student Travel Awards.*

SEAC AWARDS NEWS

SEAC Board Updates Procedures for Royce W. Murray Young Investigator Award Nominations

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.

Nominations for the Charles N. Reilley Award 2017 and the Royce W. Murray Young Investigator Award 2017 are due in March 2016. For the exact date and more information, see http://www.electroanalytical.org/awards.html - for submission.

PITTCON 2015

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

The highlight of the SEAC activities at Pittcon was the presentation of the 2015 C. N. Reilley Award to Hubert Girault of the École Polytechnique Fédérale de Lausanne, Switzerland, and the Royce W. Murray Award to Thomas Hamann, Michigan State University.

Hubert Girault grew up in the city of Fontainebleau near Paris, and went to the Grenoble Institute of Technology to study electrochemical engineering. In 1979, he moved to the University of Southampton in England for PhD studies in electrochemistry under the supervision of David Schiffrin, Graham Hills and Martin Fleischmann. He completed his PhD degree in 1982 entitled "Interfacial studies using drop image-processing techniques". It was during this period that he started a lifetime interest in electrochemistry at liquid-liquid interfaces. After 3 years as a post-doc at the same University, he was then appointed Lecturer at Edinburgh University in Scotland where he developed his interest in analytical chemistry and capillary electrophoresis with John Knox and in photo-electrochemistry with Lesley Yellowlees. Following an invitation by Michael Grätzel, he moved to the Ecole Polytechnique Fédérale de Lausanne (EPFL) in 1992 where he has been ever since.

His research activities range from the design of immuno-sensors and new ionization methods for mass spectrometry to scanning electrochemical microscopy and charge transfer reactions at soft interfaces. More recently, his group has moved towards energy research, developing new reactions for hydrogen evolution at liquid-liquid interfaces as well as photo-ionic cells for solar fuel production and generation of electricity. His group has recently installed a pilot-plant for hydrogen production using a 10 kW vanadium redox flow battery.

Hubert has mentored more than 50 students to PhD completion, and 23 former members of his group hold faculty positions around the globe. His group has more than 400 scientific publications and he is the author of a textbook entitled: "Electrochimie Physique et Analytique". From 1996 to 2001, he was associate editor for *Journal of Electroanalytical Chemistry* and since 2011 he has been associate editor of *Chemical Science* for Analytical Chemistry and Electrochemistry. He is also the vice-president of EPFL Press. Between 2011 and 2014, he was the Dean of Bachelor and Master studies at EPFL (7000 students in 13 programs). More details can be found at: http://lepa.epfl.ch

Thomas Hamann is the inaugural James Dye Professor of Materials Chemistry at Michigan State University. After completing his graduate work with Nate Lewis at Caltech in 2006, Tom joined Joseph Hupp's group as a postdoc at Northwestern University. In 2008, Tom started his independent academic career at Michigan State University. His research interests include the synthesis of mesoscopic materials and investigation of interfacial electron transfer and photocatalytic reactions at semiconductor surfaces. He was the recipient of a DOE early career research award, a NSF CAREER award, a Sloan Fellowship and the Camille Dreyfus Teacher-Scholar Award.

From left to right: Richard Crooks, Adrian Michael, Hubert Girault, Thomas Hamann, Henry White, Robert Corn. © 2015 Roy Engelbrecht, royephoto.com.

Pittsburgh Analytical Chemistry Award

Andrew G. Ewing, Professor at Chalmers and Gothenburg Universities in Sweden, received the Pittsburgh Analytical Chemistry Award 2015 for his pioneering chemical measurements at single cells; capillary electrophoresis, electrochemical imaging, biological mass spectrometry imaging, and new electrochemical strategies to quantify the contents of nanometer transmitter vesicles.

From left: Andrew Ewing, Mark Wightman, Christian Amatore, Jon Howell, and David Wipf.

More Pittcon Pictures

From left Sarah Calhoun, Christian Amatore, Leslie Sombers, Lingjiao Qi, and Leslie Wilson.

Participants of the Pittcon sessions Ionophore-Based Chemical Sensors.

Last but not least, a contribution from artist photographer Gary Christian, University of Washington: View of the Mississippi at New Orleans during Pittcon.

SEAC STUDENT TRAVEL AWARD WINNERS

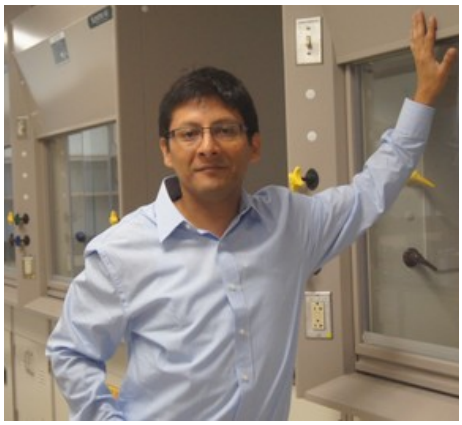
Winners of the student travel awards are Jeffrey E. Dick, University of Texas at Austin (advisor: A. Bard), **Stephen M. Oja**, University of Washington (advisor; Bo Zhang), **Florika Macazo,** University of Maryland (advisor: Ryan White), **Rafael Masitas**, University of Louisville (advisor: Francis Zamborini), **Kathryn M. Nesbitt**, University of Pittsburgh (advisor: Adrian Michael), and **Josephine Cunningham**, The University of Texas at Austin (Richard Crooks). Congratulations to all of them!

Josephine Cunningham (Advisor: Richard M. Crooks, The University of Texas at Austin) presented "Paper Electrochemical Device for Detection of Antibodies in Whole Blood by Target-Induced Conformational Switching" at Pittcon 2015 in the Electrochemical Sensors for Bio-Analysis session. Josephine's research focuses on the development of paper-based microfluidic analytical devices (μPADs), which are a new class of lab-on-a-chip devices that have the advantageous qualities of being portable, fast, inexpensive, easy to use, and sensitive. Josephine has used these advantages of μPADs to design and develop potential point-of-need platforms for environmental and diagnostic testing on earth or spacecraft. Josephine discussed her work to develop one of her μPAD platforms and how the project has progressed over her graduate career. Josephine is a NASA Harriet G. Jenkins Graduate Fellow under the advisement of Jessica Koehne at Ames Research Center in Mountain View, CA.

Jeffrey E. Dick is a National Science Foundation Graduate Research Fellow in the laboratory of Dr. Allen J. Bard at the University of Texas at Austin. Jeffrey's research focuses on all aspects of electrochemistry, including single molecule detection, electrocatalysis, electrochemical reaction mechanisms, electrogenerated chemiluminescence studies, applications of scanning electrochemical microscopy, and applications of collision methodology to the detection of biologically relevant analytes, such as viruses. Currently, Jeffrey is working on developing electrochemical techniques to elucidate the behavior of single molecules and electrocatalysts as they adsorb or react on electrode surfaces. Outside of lab, Jeffrey enjoys playing tennis and writing.

Florika C. Macazo (Advisor: Ryan J. White, University of Maryland Baltimore County) delivered an oral presentation on "Small Scale ATP Measurements Using a New Biological Nanopore-based Sensor Supported on Glass Nanopore (GNP) Membranes" at Pittcon 2015 in the session *Sensors – Electrochemical Platforms* session. Florika's research focuses on developing a novel, bio- inspired scanning probe microscopy (bio-SPM) technique able to quantitatively map specific molecular flux across a membrane, which can potentially elucidate mechanistic and spatial information about cellular processes in developmental disorders (e.g., signaling molecules involved in cell communication). To serve as her scanning probes, Florika fabricates protein nanopore-based sensors supported on glass nanopore (GNP) membranes, where she adds *specificity* by using the ATP-dependent Hsc70 – a heat shock cognate protein that acts *like* a ligand-gated protein channel. In spite of very limited reports on the quantitative properties of Hsc70, Florika has recently demonstrated, for the first time, the potential of Hsc70 as a *new* biological nanopore, particularly as a means to specifically and quantitatively detect ATP. In developing her bio-SPM technique, Florika will build an in-house scanning probe microscope (SPM), which will have the ability to image the flux of specific molecules moving in and out of a membrane, as well as noninvasively map their localization within the substrate with high spatial resolution. In her talk, Florika discussed how she characterized and utilized the ATP-dependent Hsc70

channel activity for use as a nanopore-based sensor for ATP detection, as well as the recent progress and challenges involved in her research work. Outside of lab, Florika (a.k.a. Flaire) enjoys music, movies, and travel.



Rafael Masitas (Advisor: Francis P. Zamborini, University of Louisville) presented at Pittcon "Effect of Metal Nanoparticle Size on Galvanic Exchange Reaction" in the Electrochemistry/ Nanotechnology session. Rafael's research focuses on the unique electrochemical reactivity of metal nanoparticles below 4 nm in diameter. This study examined the galvanic replacement of electrode-confined Au nanoparticles with $PtCl_4^{2-}$ as a function of the $PtCl_4^{2-}$ concentration and Au nanoparticle size from 4 nm to 90 nm, while the total surface area of the Au remained constant. He used voltammetry, scanning electron microscopy, and CO striping analysis to quantify the amount of Pt on the resulting AuPt alloy nanoparticles in order to determine the amount of exchange. The exchange reaction is highly size-dependent, showing a much larger amount of exchange occurring on Au nanoparticles smaller than 10 nm. Outside of the lab, Rafael enjoys basketball and soccer.

Kathryn M. Nesbitt (Advisor: Adrian C. Michael, University of Pittsburgh) presented on "Enhancing Voltammetric Detection of Dopamine near Microdialysis Probes Implanted in the Striatum" in the session she organized with co-presider Rachel Saylor: Emerging Methods for Monitoring Neurochemicals in Living Systems session. Kathryn's research focuses on mitigating tissue damage during brain microdialysis. She uses carbon fiber microelectrodes coupled with fast scan cyclic voltammetry to measure dopamine in tissue surrounding microdialysis probes to determine pharmacological agents that preserve dopamine terminal function. She has also used microelectrodes to spatially map different kinetic dopamine domains in the brain. Outside of the lab, Kathryn enjoys soccer and travelling.

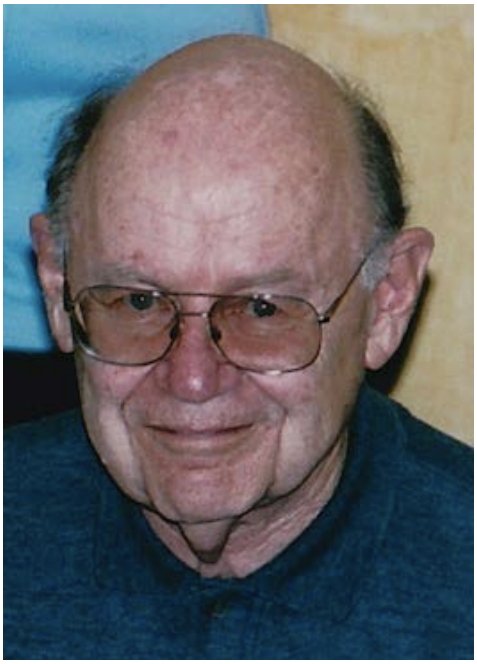
Stephen Oja (Mentor: Bo Zhang, University of Washington) presented "Development of Fluorescence-Enabled Electrochemical Microscopy" in the SEAC Student Session in Electroanalysis. Stephen's research focuses on developing a new electrochemical imaging technique called fluorescence-enabled electrochemical microscopy (FEEM). The central concept of FEEM is the use of a closed bipolar electrode to couple a conventional redox reaction of interest, such as the oxidation of dopamine, to a complimentary fluorogenic indicator reaction, such as the reduction of resazurin. Thus, FEEM converts an electrochemical current signal into an optical fluorescence signal. This enables the simultaneous detection of redox species on very large arrays of ultramicroelectrodes (i.e. >10,000 electrodes). Stephen's work on this technique includes developing new fluorogenic reactions, imaging dynamic diffusion layers and other concentration gradients, and pushing the detection limit of the technique to the single-molecule regime. His overall goal is to develop FEEM into a tool that is useful and accessible to the broader analytical chemistry community and beyond. Outside of the lab, Stephen enjoys fishing, farming, and woodworking.

HERBERT P. SILVERMAN
(WITH A GLIMPSE ON SEAC'S EARLY HISTORY)

Herbert Silverman passed away on Feb. 22, 2015 at age 90 after a courageous battle with pancreatic cancer. ***Fred Anson*** brought this sad news to us, adding a contribution of $500 for the SEAC endowment fund in Herbert Silverman's honor. (Thank you, Fred.) Fred emphasizes that Herb was a talented electroanalytical chemist who was a long time supporter of WETS and its successor, SEAC. The following are Fred's recollections:

Herb had a long and fruitful association with Electroanalytical Chemistry and electroanalytical chemists: In the early 1960's Herb was among a group who gathered near the beach in San Clemente, CA just prior to ACS or ECS Meetings to discuss various topics in electroanalytical chemistry and to find attractive means to amuse and toast each other. The group decided that they needed a formal professional title to explain the values of these get togethers to university auditors. This aspiration led to the birth of WETS, The Western Electroanalytical Theoretical Society. A suitable letterhead was created which included the names of the Society's officers. This society grew in size as the attractions of the San Clemente rendezvous became better and better known. Within a few years the group decided that a Gordon Research Conference devoted to electrochemistry would be highly desirable. Ralph Adams and Richard Buck were induced to prepare a suitable proposal to the Gordon Conferences officials. They were successful and the first electrochemistry Conference took place at the (now demolished) Miramar Hotel in Santa Barbara in January, 1964. These conferences were extremely popular and successful for several decades.

Herb Silverman attended the conferences regularly and served as the Chairman of the 1977 conference. He led a group of electrochemists in several industrial settings and was well known for his inquisitive attitude, leadership and friendly demeanor. He was among those WETS members who endorsed the renaming of the group as today's Society for Electroanalytical Chemistry, SEAC. It has been scientists such as Herb that have made SEAC into the enduring and admirable society it is today.



P.S. by the SEAC editor: Herbert Silverman's very clever e-mail address was agman@cox.net—it takes a chemist to think of that.

CRAIG E. LUNTE

Professor Craig E. Lunte passed away Monday, April 13, 2015 at his home. He was born August 6, 1957 in St. Louis, Missouri, graduated from McCluer North High School in 1975 and earned a BS in chemistry from the University of Missouri at Rolla in 1979. He went on to earn a PhD in chemistry from Purdue University in 1984, from which he earned recognition as an Outstanding Alumnus, and did postdoctoral work at the University of Cincinnati from 1986 to 1987. He moved to Lawrence in 1987.

Craig was a professor of chemistry at the University of Kansas and was chair of the chemistry department for over ten years. He recently received the Higuchi Research Achievement Award, one of his many esteemed accomplishments. Craig was an avid reader and had an intellectual curiosity that took him far beyond the world of chemistry. He has an incredible group of friends located all over the world, from in Lawrence to Ireland to Brazil. Many of these have experienced either a loss at golf by his hand or the wonderful, and sometimes painful, fullness caused by his amazing cooking.

He married Sue Hommel, whom we know very well as former SEAC secretary and president. They enjoyed over 30 years of happy marriage, and together travelled all over the world.

Adapted from http://rumsey-yost.com/2015/04/craig-edward-lunte-phd/.

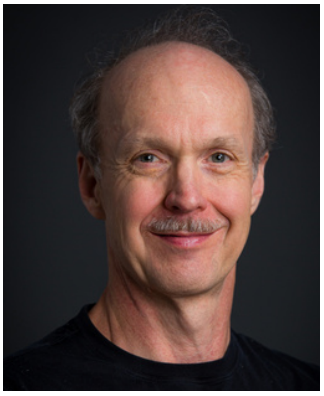
And here some thoughts from Prof. Lunte's PhD adviser Pete Kissinger:

Craig Lunte and Sue Hommel joined my group in 1980 in the middle of several important transitions. These included a dramatic increase in women chemistry graduate students and long overdue new thinking about employing married couples in academic departments. This was also near the end of the time when graduate education (in many research groups) worked on the sink-or-swim theory vs. the more careful mentor-ship model encouraged today. These two young people jumped in and swam, very cautiously at first, but at an Olympic pace their last two years. This was how I was "mentored" as well. The Reilley Award evolved from that notion which some today consider barbaric. This old approach delivered senior graduate students who were highly independent (and even obnoxious). The conversion from student to colleague went very well in the case of Craig Lunte who received the doctorate in May of 1984. The fact that he found a highly compatible spouse just a lab bench away was extra credit for him. The binding constant was sufficient for three decades of very productive teamwork. For perspective, this was the time that the "Cybernetic Potentiostat" from the University of Illinois evolved into the BAS-100 series of electrochemical workstations. It was simultaneously the time that in vivo microdialysis became commercially manifest owing to electrochemistry. Craig and Sue then passed through Cincinnati and on to Kansas where they have been stalwarts of the Chemistry and Pharmaceutical Chemistry Departments. They moved the science ahead and even gave me grandchildren in the teaching profession. They worked together and separately to advance microdialysis and capillary electophoresis for pharmaceutical applications, often with the help of electrochemical sensors.

Craig was an enthusiast for teaching, science, baseball, beer and golf. He had an infectious laugh and wry way of looking at things, especially things associated with administrative quirkiness and the frequent gaps in logic evidenced by bureaucracy. He was fun to be around. He kept the fun going at the end as his ashes were preserved in a cremation urn in the form of a larger-than-life golf ball. I learned a lot from Craig. I could hear him laughing as I went to Google and checked out the possibilities for urns. The variety is amazing. All you need is a Visa card. It got me thinking. Could I then be poured into an empty chromatography column and perhaps separate some interesting metabolites that are electroactive?

Craig is survived by Sue, two wonderful daughters Alison and Catherine and his 94 year old father. He was taken from us too soon, but he lives on through his positive influence on so many students and colleagues. A spirited life well lived is one to celebrate and talk about for years to come. Electrochemists never die, but just cross the interface and wait for their friends to diffuse on in.

NEWS FROM MEMBERS



Richard Crooks awarded Faraday Medal. Crooks is a member of the Center for Electrochemistry Advisory Committee and professor in the Department of Chemistry at The University of Texas at Austin, where he holds the Robert A. Welch Chair in Materials Chemistry. In recognition of very significant contributions to various areas of electrochemistry, Crooks has been invited to be the 2015 recipient of the Faraday Medal. The Faraday Medal is currently awarded annually by the Electrochemistry Group of the Royal Society of Chemistry (RSC) to an electrochemist working outside the UK in recognition of their outstanding original contributions and innovation in any field of electrochemistry. The Medal will be presented at the annual UK Electrochem meeting, planned for September 13-15, 2015 at Durham University.

Dick Durst, former President of SEAC (2009-2011), Professor Emeritus of Chemistry at Cornell University and currently living in Koefering Germany, has been elected to the Presidium of the European Academy of Sciences. The Presidium is the five-member governing board of the Academy, and he will serve on this board until 2019.

Dr. Durst was first elected to the European Academy of Sciences (EURASC) as a foreign member in 2002. The Academy, headquartered in Brussels Belgium, is an international organization comprised of distinguished scientists and engineers performing forefront research and development of advanced technologies. These scholars are united by a commitment to promoting science and technology and with the aim of strengthening European science and scientific cooperation.

Dr. ***Xueji Zhang***, professor of chemistry and distinguished scientist, dean, School of Chemistry & Biological Engineering, University of Science & Technology, Beijing (USTB) was elected fellow of the Royal Society of Chemistry (RSC). The Fellow status is awarded to individuals who "made an outstanding contribution to the advancement of the chemical sciences; or to the advancement of the chemical sciences as a profession; or have been distinguished in the management of a chemical sciences organization.

Dr. Zhang's research focuses on biosensing, nanomaterials, natural medicine and new energy, particularly developing nanobio-electronic devices and nanobiosensors for both diagnosis and drug delivery. He authored over 200 papers and 6 books. He serves as editor-in-chief of *Am J. of Biomed. Sci.* and is member of the editorial advisory board of 18 international journals. He holds over 40 patents, most of them licensed to industrial partners for commercialization. He has developed

numerous sensors and biomedical devices that have been widely used by more than 100 courtiers in the world. Prior to this honor, Xueji Zhang was also elected academician of the Russian Academy of Engineering, was named National Chair Professor at USTB, Fellow of the Chinese Chemical Society, and received numerous awards, such as the W. Simon Fellow of the ICSC-World Lab, United Nations, scientist of the year.

Perry Motsegood, former Leddy graduate student and postdoc at Argonne National is as of March 2015 an Assistant Chemist at Argonne in the Nuclear Engineering Division. He will continue working on the electrolytic reduction of uranium dioxide to uranium metal in high temperature molten salts. Attentive readers will note that we just welcomed Perry in the last issue of this newsletter as a new lifetime member.

Wittenberg student ***Garrhett Via***, mentored by SEAC member ***Kristin Cline***, wins James Manner Award At Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy for his poster Investigation of a One-Step Synthesis-Grafting Method to Modify Glassy Carbon Electrodes. See also http://www.wittenberg.edu/news/2015/chemistry-student-wins-james-manner-award-at-pittcon

From left: Barbara Manner, Pittcon judge, Garrhett Via, and Kristin Cline.

Pine Research Instrumentation (Durham NC) is pleased to announce that Dr. ***Gregory S. McCarty*** has joined the technical team at Pine. Greg received both his M.S. degree in mechanical engineering and his Ph.D. degree (2001) in chemistry from Pennsylvania State University. He was Research Assistant Professor with the Pennsylvania State Nanofabrication Facility and the Department of Engineering Science and Mechanics from 2001 to 2005. In 2005, he accepted a position as an Assistant Professor of Biomedical Engineering at North Carolina State University and the University of North Carolina-Chapel Hill. His research interests include nanofabrication, biomedical sensors, technologies to aid neuroscience researchers, and wireless and low-power sensor nodes. His recent research has focused on creating electroanalytical techniques for monitoring biochemical signaling to improve understanding of brain function and dysfunction. In 2015, Dr. McCarty moved to Pine Research Instrumentation to continue his efforts to advance the utilization of electroanalytical techniques in biomedical research.

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***
4th Zing Electrochemistry Conference	2015, April 19–22	Tivoli Carvoeiro, Portugal	4th Zing Electrochemistry Conference
227th ECS Spring Meeting	2015, May 24–28	Chicago, IL	http://www.electrochem.org/meetings/biannual/227/
17th ISE Topical Meeting: Multiscale Analysis of Electrochemical Systems	2015, May 31–June 3	Saint-Malo, France	http://topical17.ise-online.org/
2nd Summer School in Molecular Electrochemistry	2015, June 29–July 2	Amealco de Bonfil, Queretaro, Mexico	https://sites.google.com/site/microechem2015/home
15th ISEAC	2015, Aug. 13-16	Changchun, China	iseac2015.csp.escience.cn/dct/page/70005
250th ACS National Meeting	2015, Aug. 16–20	Boston, MA	http://www.acs.org/content/acs/en/meetings/boston---fall-2015.html
11th BBMEC (Biosensor and Bioanalytical Microsystems for Environmental, Food and Clinical Analysis)	2015, Sept. 26–30	Regensburg, Germany	http://www.bbmec.org/11 (Chair: Antje Baeumner)
66th ISE Annual Meeting	2015, Oct. 4–9	Taipei, Taiwan	http://annual66.ise-online.org/
8th International Workshop on Scanning Electrochemical Microscopy (SECM8)	2015, Oct. 9–13	Xiamen, China	http://secm8.xmu.edu.cn/

Meeting	*When*	*Where*	*Link for More Information*
228th ECS Fall Meeting	2015, Oct. 11–16	Phoenix, AZ	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
10th International Frumkin Symposium on Electrochemistry	2015, Oct. 21–23	Moscow, Russia	http://frumkinsymp.ru/ Alexander A. Nekrasov: alexander.nek@gmail.com
Pacifichem 2015	2015, Dec. 15–20	Honolulu, HI	http://www.pacifichem.org
GRC in Electrochemistry	2016, Jan. 10–15	Ventura, CA	http://www.grc.org/programs.aspx?id=11216
2016 CEC Annual Workshop on Electrochemistry	2016, Feb 13-14	Austin, TX	http://cec.cm.utexas.edu/annual-electrochemistry-workshop
18th ISE Topical Meeting	2016, March 9–11	Gwangju, South Korea	http://www.ise-online.org/annmeet/next_meetings.php
Pittcon 2016	2016, March 6–11	Atlanta, GA	http://pittcon.org
251st ACS National Meeting	2016, March 13-17	San Diego, CA	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
19th ISE Topical Meeting: Electrochemistry at Modified Interfaces	2016, April 17–20	Auckland, New Zealand	http://www.ise-online.org/annmeet/next_meetings.php
229th ECS Spring meeting	2016, May 20–June 3	San Diego, CA	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
GRC in Bioanalytical Sensors	2016, June 26–July 1	Newport, RI	http://www.grc.org/programs.aspx?id=14001
252nd ACS National Meeting	2016, Aug. 21–25	Philadelphia, PA	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
67th ISE Annual Meeting	2016, Aug. 21–26	The Hague, Netherlands	http://www.ise-online.org/annmeet/next_meetings.php
PRiME 2016 (ECS)	2016, Oct. 2–7	Honolulu, HI	http://www.electrochem.org/meetings/biannual/fut_mtgs.htm
253rd ACS National Meeting	2017, April 2–6	San Francisco, CA	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
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

Save the date for the CEC Annual Workshop on Electrochemistry — Feb. 13-14, 2016

Each year in Austin, Texas, the Workshop on Electrochemistry brings together experts in fields of engineering, materials, and electrochemistry to focus on topics in a few important areas of research. Participants address specific challenges in the field, exchange ideas and information, and catch up with colleagues from around the world. The workshop is hosted by the Center for Electrochemistry, and the date for the eighth annual Workshop has been set for February 13-14, 2016. More information will be available at http://cec.cm.utexas.edu as details are set.

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 and fill out the downloadable membership form.