SEAC*communications*

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PRESIDENT'S MESSAGE

Dear SEAC Members,

Please join me in congratulating 2019 Charles N. Reilley award winner Joseph Wang, University of California, San Diego, and Royce W. Murray award winner Alex Martinson, Argonne National Laboratory. We will celebrate them at Pittcon 2019 with a SEAC award session that will also feature Justin Gooding, Mark Meyerhoff, and Greg Swain. Clearly this will be a true highlight of Pittcon 2019. This newsletter also features Manjula Wijesinghe and Carl J. Meunier, our 2018 student travel award winners. Those of you who attended their presentations know what an excellent job they did and how well deserved those awards were. Please note the February 15, 2019, deadline for 2019 student travel awards and consider encouraging your students to apply. There is only one way how your students can be guaranteed not to win such an award, and that is by not applying. Last but not least, let me point out the range of news from SEAC members that you will find again in the SEAC Newsletter this fall. It is great to see how vibrant our community is, so please don't be shy and keep the information flowing. Our newsletter editor Takashi Ito is always happy to hear from you.

Phil Buhlmann
President, 2017-2019

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Special Thanks to Our Sponsors!

How Easy it is to Become a SEAC Member

PITTCON 2019 – March 17~21, 2019

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

The highlight of the SEAC activities at Pittcon 2019 will be the presentation of the 2019 Charles N. Reilley Award to **Joseph Wang**, University of California, San Diego, and the Royce W. Murray Young Investigator Award to **Alex Martinson**, Argonne National Laboratory. The symposium in their honor will be arranged by Greg Swain, Michigan State University.

Joseph Wang is Distinguished Professor, SAIC Endowed Chair and Chair in Department of Nanoengineering at University of California, San Diego (UCSD). He is also the Director of the UCSD Center of Wearable Sensors and Chief Editor and founder of *Electroanalysis*. He served as the director of Center for Bioelectronics of Arizona State University before joining UCSD. Wang has made pioneering contributions to modern electroanalytical techniques, wearable biosensors, nanobioelectronics, flexible and stretchable materials, nanomachines and use of nanomaterials in electrochemical sensors. Professor Wang has published more than 1050 papers, 11 books and he holds 30 patents. He received two ACS Awards in Instrumentation (1999) and Electrochemistry (2006), 9 Honorary Professorships and 4 medals from different countries.

Alex Martinson is a Chemist in the Materials Science Division at Argonne National Laboratory. He obtained a Ph.D. in Physical Chemistry at Northwestern University with Dr. Joseph T. Hupp and completed a director's postdoctoral fellowship at Argonne with Dr. Michael J. Pellin. Alex leads the Interfaces for Clean Energy Theme in the Surface Chemistry Group where he strives to elucidate and leverage the multitude of technologically relevant surface chemistries and optoelectronic processes that occur at the interface between materials. Present work is intended to advance the science of solar energy conversion, catalysis, and water remediation through photoelectrochemistry and the *in situ* study of interface synthesis in order to reveal the shortcomings of our control over energy and matter.

SEAC Student Travel Awards Available for Pittcon 2019

Attending Pittcon? Presenting (Oral or Poster)? Need help with travel expenses?

Please consider applying for a student travel award.

Documents needed:

1. current graduate transcript
2. a copy of the abstract submitted to the Pittsburgh Conference
3. a complete resume including publication list
4. 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. More information on the awards is available at http://electroanalytical.org/awards.html

Application submission begins **January 1, 2019.**
Deadline for the travel awards is **February 15, 2019**.

All nomination materials requested below should be emailed as **a single pdf** to:

Héctor D. Abruña, E. M. Chamot Professor
Department of Chemistry and Chemical Biology
Director, Energy Materials Center at Cornell
Baker Laboratory, Cornell University
Ithaca, New York 14853-1301
e-mail: hda1@cornell.edu

PITTCON 2018 – February 25 ~ March 1, 2018

2018 SEAC Student Travel Award Winners

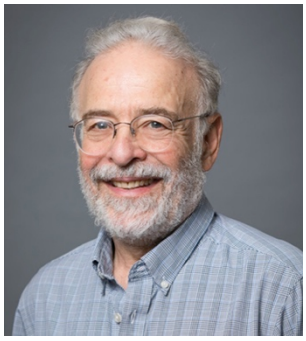
Winners of the student travel awards are **Manjula Wijesinghe**, University of Kansas (advisor: S. Lunte) and **Carl Meunier**, North Carolina State University (advisor: L. Sombers). Congratulations to both of them!

Manjula Wijesinghe is a PhD candidate under the supervision of Prof. Susan M. Lunte in the analytical chemistry division of the Department of Chemistry at the University of Kansas. Prior to his admission to KU, he received his BSc from the University of Peradeniya and his MS from New Mexico State University. Manjula is researching bipolar electrochemistry in order to develop a novel detector with enhanced detection limits to couple with microchip electrophoresis. His research interests also include understanding the influence of separation voltage on electrochemical detection through modeling with COMSOL Multiphysics.

Carl J. Meunier is an analytical chemistry graduate student at North Carolina State University, where he works under the direction of Dr. Leslie A. Sombers. His research focuses on advancing voltammetric and analysis strategies for real-time, in situ measurements in neuroscience applications. Carl graduated from Bradley University, where he worked under Dr. Luke Haverhals on natural fiber welding to produce cellulosic biocomposites.

NEWS FROM MEMBERS

Héctor D. Abruña was elected to the National Academy of Sciences, and was selected to receive the A. J. Bard Medal for 2019.



Joseph Wang (UCSD) was honored with the 2018 ESEAC Lifetime Achievement Award in Electroanalytical Chemistry during the June 2018 17th ESEAC Conference in Rhodes (Greece). This prize is awarded to a senior scientist with a proven record of significant achievements in Electroanalytical Chemistry and active involvement in the activities of ESEAC. Picture below shows Joe along with the Conference Chair, Professor Anastasios Economou from Athens.

David D. Cunningham moved in the Fall of 2018 to the Southeast Missouri State University Department of Chemistry from Eastern Kentucky University. He continues his work with undergraduate teaching, research and consulting as a Principal at Hunter Scientific Services.

HUNTER SCIENTIFIC SERVICES

After 30 years at West Virginia University, ***Harry Finklea*** formally retired in May 2017. However, he has maintained an active research program, working with engineers and with an orthopaedic surgeon. Current projects include impedance analysis of solid oxide fuel cells, treatment of produced water (water from drilling oil and gas wells and from production wells), extraction of critical materials (mainly rare earth elements) from acid mine drainage and AMD treated sludge, and treatment of biofilms on orthopaedic implants. Some of these projects are electrochemical in nature, and some draw on his extensive teaching experience in quantitative and instrumental analytical chemistry. He would enjoy hearing from colleagues whose research activities overlap with his.

Susan Lunte has informed that The Department of Chemistry at the University of Kansas is proud to announce the start of a new lecture series in honor of Ralph Adams. R. Mark Wightman, Professor Emeritus of Chemistry at the University of North Carolina – Chapel Hill will be the Department's inaugural Adams Lecturer November 15-16, 2018. (Dr. Wightman was a postdoctoral associate in Ralph Adams's lab at KU 1974-1976.) This new lecture series has been made possible through a generous gift from one of Dr. Adams's graduate students, Theodore Kuwana, and Don Leedy, an undergraduate researcher in Dr. Kuwana's lab at UC Riverside. For more information, please email the Adams Institute at adamsinstitute@ku.edu.

BASi has been announced a new product.

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We look forward to hearing from you!

James Hill, Ph.D.
Principal Investigator and Product Manager, Electrochemistry

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***
Amatore International Symposium on Electrochemistry for Sustainable Development - 2018 Sustainable Industrial Processing Summit	2018, Nov 4–7	Rio de Janeiro, Brazil	https://www.flogen.org/sips2018/
7th Baltic Electrochemistry Conference: Finding New Inspiration	2018, Nov 4–7	Tartu, Estonia	http://bechem2018.ut.ee/home-0
2019 CEC Annual Workshop on Electrochemistry	2019, Feb. 9–10	Austin, TX	cec.cm.utexas.edu/electrochemistry-workshop-2019
Pittcon 2019	2019, March 17-21	Philadelphia, PA	https://pittcon.org/
257th ACS National Meeting	2019, March 31–April 4	Orlando, FL	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
24th ISE Topical Meeting: Electrochemical Assembly at the Meso, Nano and Molecular Scale	2019, April 7–10	Merida, Mexico	http://www.ise-online.org/ise-conferences/next_ISE-meetings.php
ISE Student Symposium on Electrochemistry	2019, April 29	Brisbane, Australia	https://www.raci.org.au/events/category/electrochemistry-division
21st Australia and New Zealand Electrochemistry Symposium (21AES)	2019, April 30	Brisbane, Australia	https://www.raci.org.au/events/category/electrochemistry-division
25th ISE Topical Meeting: New electrochemical processes for energy and the environment	2019, May 12–15	Toledo, Spain	http://www.ise-online.org/ise-conferences/next_ISE-meetings.php
235th ECS Meeting	2019, May 26–31	Dallas, TX	http://www.electrochem.org/upcoming-meetings/
Matrafured 2019: International Conference on Electrochemical Sensors	2019, June 16–21	Visegrad, Hungary	http://www.matrafured-conference.bme.hu
70th ISE Annual Meeting: Electrochemistry: Linking Resources to Sustainable Development	2019, Aug 4–9	Durban, South Africa	http://annual70.ise-online.org/index.php
258th ACS National Meeting	2019, Aug. 25–29	San Diego, CA	https://www.acs.org/content/acs/en/meetings/nationalmeetings/meetings.html
236th ECS Meeting	2019, Oct. 13–17	Atlanta, GA	http://www.electrochem.org/upcoming-meetings/

Meeting	*When*	*Where*	*Link for More Information*
71st ISE Annual Meeting: Electrochemistry towards Excellence	2020, Aug 30–Sept 4	Belgrade, Serbia	http://www.ise-online.org/ise-conferences/next_ISE-meetings.php

2019 CEC Annual Workshop on Electrochemistry — Feb. 9~10, 2019

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

The Workshop features two days of great speakers, in a casual atmosphere that fosters interaction between students, postdocs, faculty, representatives from industry, and national labs. The Workshop features technical presentations and posters from several different perspectives. The 2019 CEC Annual Workshop on Electrochemistry will be held February 9–10, 2019, on the University of Texas campus in Austin, Texas. The Workshop will focus on four main topics: *Single Atom and Cluster Size Effects on Electrocatalysis, Biological Applications in Electrochemisry, Electrical Energy Storeage, Photoelectrochemistry and Optical Imaging of Electrodes.* The program follows below.

Registration and Workshop information **details:** Available beginning Nov. 1, 2018, at http://cec.cm.utexas.edu/electrochemistry-workshop-2019.

Posters*:* Attendees are invited to present posters at the poster session/reception scheduled for Saturday, February 9, 2019 from 5:30–8 pm. *To present a poster, you must first register for the Workshop. You do not need a final title for your poster until January.* We will re-confirm with you and request titles, which will need to *be finalized by noon on January 18, 2019***.** You can also email Cynthia Zoski at *cynthia.zoski*@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, there are a number of spaces available for table exhibits at the poster session. Contact Cynthia Zoski at *cynthia.zoski*@cm.utexas.edu for more information.

2019 CEC Annual Workshop on Electrochemistry
February 9~10, 2019

Single Atom and Cluster Size Effects on Electrocatalysis

Nenad Markovic, *Argonne National Lab*
Energy and Fuels From Electrochemical Interfaces

Radoslav Adzic, *Brookhaven National Lab*
Enhancing Electrocatalysis Through Design of Core-Shell Nanoparticles

Xueliang Sun, *University of Western Ontario*
Single Atom Electrocatalysts for Fuel Cells

Biological Applications in Electrochemistry

Kevin Plaxco, UC Santa Barbara
Counting Molecules, Dodging Blood Cells: Continuous, Real-time Molecular Measurements Directly in the Living Body

Shelley Minteer, University of Utah
Tailoring Enzyme/Electrode Interfaces for Energy Conversion and Electrosynthesis

Jill Venton, University of Virginia
Tunable Carbon Electrodes for Neurotransmitter Detection

Electrical Energy Storage

M. J. Aziz, Harvard University
Organic-Based Aqueous Flow Batteries for Stationary Electrical Energy Storage

Jeff Sakamoto, University of Michigan
Solid-state Batteries
Shirley Meng, UC San Diego
Electrochemical and Chemical Quantification of SEI on Lithium Metal Anodes

Photoelectrochemistry and Optical Imaging of Electrodes
J. Reynolds, Georgia Institute of Technology
Conjugated Polymers for Organic Photovoltaics: The Minimal Structural Change Approach in Active Material Design and Optimization
F. Kanoufi, Universite Paris Diderot
Optical Imaging of Single Nanoparticle Electrochemistry

ISE Student Symposium on Electrochemistry — April 29, 2019
21st Australia and New Zealand Electrochemistry Symposium (21AES) — April 30, 2019

International Society of Electrochemistry

Royal Australian Chemical Institute

Queensland University of Technology

ISE Student Symposium on Electrochemistry Monday 29th April 2019

21st Australia and New Zealand Electrochemistry Symposium (21AES)
Tuesday 30th April 2019
Electrochemistry Division – Royal Australian Chemical Institute

Queensland University of Technology, Brisbane, Australia

This is the first call for the ISE/EDRACI meeting to be held at QUT next year. The organising committee is especially interested in featuring the work from PhD research students and other early-career researchers. A confirmed keynote speaker is Prof. Andrea Russell from the University of Southampton, UK. Details regarding abstract submission and registration will follow shortly.

Organising committee
Prof. Anthony O'Mullane (QUT)
Dr. Muhammad Shiddiky (Griffith)
Dr. Yang Liu (JCU)
Dr. Ruth Knibbe (UQ)
Dr. Debbie Silvester-Dean (Curtin)
Prof. Damien Arrigan (Curtin)
Prof. Chuan Zhao (UNSW)
Ummul Sultana (QUT)

Important dates:
18 January 2019: Deadline for abstract submission
8 February 2019: Notification of paper acceptance decision
15 April 2019: early-bird registration deadline
29 April 2019: Symposium

Contact:
Anthony O'Mullane, anthony.omullane@qut.edu.au

Registration
Registration Fees

	Early-bird#	Normal
Members*	$300	$350
Non-members	$350	$400
Student members*	$150	$200
Student non-members	$200	$250

*RACI or ISE members
#Early-bird rates: **before 15 April 2019**

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James Cook University Australia

JOB OPENING

Tenure-Track Assistant Professor Position in Radiochemistry at the University of Iowa:
https://jobs.uiowa.edu/faculty/view/73167

The Department of Chemistry at the University of Iowa solicits applications to fill a tenure-track Assistant Professor position in Radiochemistry broadly defined, effective August 2019. Applications are encouraged from researchers with programs focused on radioanalytical chemistry, environmental monitoring, nuclear forensics, actinide chemistry, radioisotope development, radiopharmaceuticals /therapies, or energy applications. Applicants should clearly demonstrate potential to develop and lead a nationally-prominent, externally-funded research program and commitment to excellence in teaching chemistry to a diverse student body at both the graduate and undergraduate levels. Candidates must have a doctoral degree in chemistry or a closely related field and a promising record of scholarship and productivity. Postdoctoral experience in an academic, government, national laboratory, or industrial setting is highly desired. Candidates with advanced Assistant Professor level experience are also encouraged to apply.

The Radiochemistry program at the University of Iowa was established in 2012 and is quickly developing into a renowned area of strength on campus. The Chemistry Building has state-of-the-arts facilities for teaching and research, including a shared radiochemistry facility. Faculty within the Department of Chemistry have established ties with national laboratories, state facilities, and industrial partners and there are opportunities for collaborations with the highly-ranked University of Iowa Hospitals and Clinics.

Application materials must include a cover letter describing their academic qualifications and professional experience, CV, and academic transcripts. Applicants should also provide documents that 1) describes their current expertise and future goals for an independent research program in radiochemistry; 2) states their beliefs, practices, and interests in teaching, and 3) should detail how their teaching, service, and/or scholarship has supported the success of students from backgrounds that are underrepresented in chemistry or how they would like to further the University of Iowa's commitment to diversity. Please arrange for three letters of recommendation to be sent directly to chem-facsearch@uiowa.edu. Application review will begin by October 15, 2018 and will continue until the position is filled.

The University of Iowa is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply and will receive consideration for employment free from discrimination on the basis of race, creed, color, national origin, age, sex, pregnancy, sexual orientation, gender identity, genetic information, religion, associational preference, status as a qualified individual with a disability, or status as a protected veteran. The Department of Chemistry and the College of Liberal Arts and Sciences are strongly committed to recruiting and retaining the most talented and diverse faculty. The Department values diversity and is committed to maintaining a supportive and inclusive climate. We value diversity in all forms. We conduct all departmental activities, including recruitment, retention, and personal and professional development for a diverse group of faculty, postdoctoral fellows, staff, and graduate and undergraduate students in a manner consistent with these values. The strategic plans of the University and College of Liberal Arts and Sciences reflect this commitment. The University also proudly supports work/life resources, including dual-career support; for more information please see https://worklife.uiowa.edu/.

Tenure-Track Position Available for Assistant Professor in Either Analytical/Biochem/Physical Chemistry at Creighton University:

https://creighton.referrals.selectminds.com/jobs/assistant-professor-chemistry-840

Creighton University invites applications for a tenure-track assistant professor beginning fall 2019. A Ph.D. in chemistry or biochemistry is required. We seek individuals committed to being outstanding teacher-scholars within a primarily undergraduate institution. The successful applicant will be expected to teach a 3/3 load that includes advanced courses in biochemistry, analytical chemistry *or* physical chemistry as well as foundational courses and the mentoring of undergraduates in an independent research program.

Applicants must submit application materials both online at https://careers.creighton.edu and via email to eringross@creighton.edu. The complete application must include (1) letter of intent including how the candidate will contribute to Creighton's mission, (2) curriculum vitae, (3) statement of teaching philosophy, (4) research proposal, and (5) all undergraduate and graduate transcripts. In addition, **three letters of recommendation** should be sent to the email above or mailed to: Dr. Erin Gross, Search Committee Chair, Chemistry Department, Creighton University, 2500 California Plaza, Omaha, NE 68178. **Review of completed applications will begin October 15, 2018 and continue until the position is filled.**

Creighton is consistently ranked by U.S. News & World Report as the #1 comprehensive university in the Midwest Region and also recognized for stellar undergraduate research/creative projects. Creighton University is an EO/AA Employer: M/F/Disabled/Vet and seeks a wide range of applicants for this position in support of one of our core values—gender, ethnic and cultural diversity.

For further information, visit http://www.creighton.edu/ccas/chemistry/.

Tenure-Track Assistant Professor Position in Bioanalytical Chemistry at the University of Kansas:

The Department of Chemistry at the University of Kansas is seeking a new Assistant Professor with a strong research emphasis on biomedical applications to contribute to the Department's existing expertise in bioanalytical chemistry. This individual will join the faculty in Fall 2019 as a member of both the Ralph N. Adams Institute for Bioanalytical Chemistry and the NIH COBRE Center for Molecular Analysis of Disease Pathways at KU. More information about the position and application instructions can be found on KU's employment website (http://jobs.ku.edu), position ID# 12915BR.

For further information, visit http://employment.ku.edu/assistant-professor-bioanalytical-chemistry/12915br

Postdoctoral Researcher in Neuroscience and Bioanalytical Chemistry

We are seeking a postdoctoral research associate to carry out NIH funded research in neuroscience and bioanalytical chemistry at the University of Kansas as early as December 1, 2018, or until the position is filled. The associate will carry out microscopy and electrochemical analyses in model organisms, including zebrafish. Additionally, we will expect the associate to communicate research results by writing manuscripts and presenting research results at meetings, both regional and national. Required Qualifications: (1) A PhD in Chemistry, Biology, Neuroscience, or related field. (2) Potential for scientific productivity as evidenced by application materials. Preferred qualifications: (1) Experience with *in vivo* or *ex vivo* measurements of neuronal function using electrochemical or electrophysiological methods. (2) Experience with modern in vivo imaging techniques, such as light sheet microscopy and two-photon microscopy, applied to zebrafish or other model organisms. The associate will be part of a collaborative team at the Ralph Adams Institute for Bioanalytical Chemistry, University of Kansas, Lawrence, Kansas. For a full job description and to apply go to https://employment.ku.edu/staff/13005BR.

A complete online application includes a Cover Letter, Curriculum Vitae (including publications list), Statement of Research Interests and Skills, and three letters of recommendation. Letters should sent to Prof. Michael Johnson by email (johnsonm@ku.edu) or mailed to Prof. Michael Johnson at the Department of Chemistry, 1567 Irving Hill Road, room 1140, Lawrence, KS 66045.

The University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability, status as a veteran, sexual orientation, marital status, parental status, retaliation, gender identity, gender expression and genetic information in the University's programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies and is the University's Title IX Coordinator: the Executive Director of the Office of Institutional Opportunity and Access, IOA@ku.edu, 1246 W. Campus Road, Room 153A, Lawrence, KS, 66045, (785)864-6414, 711 TTY.

SPECIAL THANKS TO OUR SPONSORS!

HOW EASY IT IS TO BECOME A SEAC MEMBER

Any individual with an interest in electroanalytical chemistry is invited to join SEAC. Regular one-year membership dues are $30. 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 to pay by check, or renew on-line by credit card.