SEAC*communications*

Volume 36, Number 1, February 2020

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PRESIDENT'S MESSAGE

Dear SEAC Members,

I am excited to write this message, because Pittcon is just around the corner and I know I will see many of you again in Chicago! Let me start by saying a few congratulations: I want first to congratulate Shelley Minteer and Martin Edwards for winning the Reilley and Murray YI awards, the two major awards given to SEAC members. I want to congratulate seven of our distinguished members for being recognized by the Analytical Scientist on their 2019 Power List: Lane Baker, Paul Bohn, Christy Haynes, Bob Kennedy, Mark Meyerhoff, Sue Lunte, and Joe Wang. I also want to congratulate our newly elected officers and BOD members. Carol Korzeniewski will be our SEAC president for the 2021-2023 term. David Cliffel and Maryanne Collinson will stay as our treasurer and secretary, respectively. Michael Johnson, Ashley Ross, and Tim Paschkewitz are new BOD members, welcome all of you!!

Please be reminded for a few important things. First, do not forget to send in your nominations for the Reilley, Murray, and Student Travel Awards. This year, we have set up two separate award committees. Dick Crooks is our award committee chair for managing the Reilley and Murray awards and Parry Hashemi is our committee chair for the Student Travel awards. I want to thank both of them for their service. We normally make five travel awards each year. This year, we are hoping to make eight travel awards, or a 60% increase! Please note the deadline for the travel awards is Feb 15, 2020. Please also remember to register yourself for the SEAC Reception and Dinner, which will happen right after the Awards Symposium on Monday, March 2. I want to thank Tim Paschkewitz for setting up the event. For those of you who wanted to know electrochemistry-related talks and posters at Pittcon but didn't know or have time to check Pittcon website, our SEAC newsletter editor Takashi Ito has put together a great list of Electrochemistry Sessions at Pittcon 2020 on page 6. Thank you, Takashi!! Last but not least, please remember to support our first SEAC student group meeting on Saturday, Feb 29, which is organized by Lane Baker.

See you all in just a few weeks!

Bo Zhang
President, 2019-2021

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NOMINATIONS SOUGHT FOR THE 2021 REILLEY AWARD AND MURRAY AWARD

Nominations are requested for the Charles N. Reilley Award and the Royce W. Murray Award. Deadlines for the Reilley and Murray Awards are **April 1, 2020** (no fooling!). All nomination materials requested below should be emailed as **a single pdf** to:

Professor Richard M. Crooks
Robert Welch Chair in Materials Chemistry
Department of Chemistry
The University of Texas, Austin
Austin, Texas, 78712
E-mail: crooks@cm.utexas.edu

More information on the awards is available at http://electroanalytical.org/awards.html

The Charles N. Reilley Award in Electroanalytical Chemistry is given in memory of one of the most distinguished analytical chemists of the 20th century. Reilley's interests were both fundamental and broad; he made seminal contributions not only to electroanalysis, but also optical spectroscopy, NMR, chromatography, data analysis, instrumentation, and surface analysis. Candidates may be nominated by any member of SEAC.

Nominations for the Reilley Award should include a letter of nomination describing the individual's significant contributions to electroanalytical chemistry, at least two seconding letters of support, and a curriculum vitae for the individual. All nomination materials will be retained by SEAC. Once nominated, any individual will be considered for the Reilley Award for three years without being re-nominated. The submission of any additional supporting information or a re-nomination is welcome at any time, however, the decision for the 2021 Award will be based upon the material that was available to the award committee by **April 1, 2020**.

The Royce W. Murray Young Investigator Award is named in honor of one of the most distinguished electroanalytical chemists in modern history and one who has been consistently supportive of young electrochemists. Candidates for this award must be within ten years of having obtained their Ph.D. or other terminal degree. Nominations can be made 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 re-nominated for three years, unless the nominee is more than ten years past awarding of their Ph.D. or other terminal degree. The retained nominations can be updated annually by the nominator as needed to best reflect the nominee's accomplishments to date. The decision for the 2021 Murray YI Award will be based upon the material that was available to the award committee by **April 1, 2020**.

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SEAC STUDENT TRAVEL AWARDS FOR PITTCON 2020

Attending Pittcon? Presenting (Oral or Poster)? Need help with travel expenses?
Are you a SEAC student member?

Please consider applying for a student travel award!

Documents needed:

1. Current graduate transcript
2. Copy of the abstract submitted to the Pittsburgh Conference
3. Complete resume including publication list
4. 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 providing he/she is a SEAC student member. 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 17, 2020**.
Deadline for the travel awards is **February 15, 2020**.

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

Professor Parastoo Hashemi
Department of Chemistry and Biochemistry
University of South Carolina
Columbia, SC 29208
E-mail: Parry.hashemi@gmail.com
Phone: 803-777-6104

SEAC ELECTION RESULTS

Congratulations to our new officers and Board members!

- President-Elect: Carol Korzeniewski
- Secretary: Maryanne Collinson
- Treasurer: David Cliffel
- Board of directors: Michael Johnson, Ashley Ross, and Tim Paschkewitz

We thank the other three candidates, Scott Shaw, Hang Ren, and Frederique Deiss, for their willingness to be on the ballot!! And, thank you for voting!

PITTCON 2020 – March 1 ~ 5

McCormick Place Convention Center, Chicago, IL

SEAC Board of Directors Meeting, Monday, March 2

The 2020 meeting of the SEAC Board of Directors will be held

Monday, March 2
12:00 ~ 1:15 PM
Room W194B

All current and former members of the Board are invited to attend.

SEAC – Charles N. Reilley and Royce W. Murray Awards Symposium
Monday, March 2

Presentation: Monday, March 2, 1:30pm - 4:55pm
Room W183C, Session 1-5

The Reilley Award Symposium honors the groundbreaking contributions of former University of North Carolina Professors Charles N. Reilley and Royce W. Murray by recognizing excellence in the field of electrochemistry. The 2020 symposium features talks from the C. N. Reilley Awardee, **Prof. Shelley Minteer**, Dale and Susan Poulter Endowed Chair of Biological Chemistry, Department of Chemistry, University of Utah, and **Dr. Martin Edwards**, Department of Chemistry, University of Utah.

1:30 PM	Introductory Remarks – Bo Zhang, SEAC President
1:35 PM	Presentation of the 2020 SEAC Charles N. Reilley Award to Shelley Minteer, University of Utah, by Henry S. White
1:40 PM	Cascade-based Electrocatalysis for Electrosynthesis, Shelley Minteer, University of Utah
2:15 PM	High-Precision Analyses of True Single-Molecule Chemistry using Nanopore Methods, Henry White, University of Utah
2:50 PM	Super-resolution Scanning Electrochemical Microscopy, Janine Mauzeroll, Lisa Stephens, McGill University
3:25 PM	Recess
3:40 PM	Presentation of the 2020 SEAC Royce W Murray Award to Martin Edwards, University of Utah, by Henry S. White
3:45 PM	Electrochemical Characterization of Single Stochastic Processes: Nanobubble Nucleation, Martin Edwards, University of Utah
4:20 PM	Thermoplastic Carbon Composite Electrodes, Charles Henry, Colorado State University

SEAC Reception and Dinner, *Monday, March 2*

Rock Bottom Brewery
1 W. Grand Ave.
Chicago, IL

Reception, 5:30 – 7:30 PM,
Free to attend, membership encouraged (apply at the event), invite your electrochemically-minded friends and colleagues; Free appetizers, cash bar,

Dinner, **7:30 – 9:00 PM**
Faculty, staff, affiliates, professionals: $55
Student (Post-docs) SEAC members: $45
Cash Bar
Pay/reserve in advance ***by February 21 2020*** via PayPal through the SEAC Website (http://electroanalytical.org/membership.html under "Contributions and other payments").

Free brewery tour (15-20 min) for both reception and/or dinner attendees!

SEAC Student Group Meeting, *Saturday, February 29*

The SEAC Student Group Meeting will be held on 02/29/2020 in Chicago Illinois at the HYATT PLACE CHICAGO DOWNTOWN RIVER NORTH – 66 W ILLINOIS ST | CHICAGO, IL 60654.

https://www.google.com/maps/search/?api=1&query=66+West+Illinois+Street%2C+Chicago%2C+Illinois%2C+United+States%2C+60654

The schedule will start at 10 am, break for 1.5 hours for lunch, and the scientific program will conclude at 6 pm. The tentative plan is to then meet at Howl at the Moon https://www.howlatthemoon.com/chicago/ (or similar establishment, to be discussed at the meeting further).

Faculty advisors are invited to attend (but not required), both for the science and evening events.

Please keep the dress and spirit of the meeting informal, but the science serious and fun. Please plan to wear a sweatshirt or t-shirt from your university to help with identification at the meeting.

Email Lane Baker (lanbaker@indiana.edu) with any last questions or issues that arise.

Electrochemistry Sessions at Pittcon 2020 (Including Poster Sessions)

SUNDAY AFTERNOON, March 1

Session 2-1	ACS - Analytical Chemistry and ANYL - Chemical Analysis of Energy Materials at the Nanoscale, Room W178B, 1:30 PM
Session 2-4	Enhanced Neuroanalytical Measurements: From Single Cells to Whole Organisms, Room W181B, 1:30 PM
Session 2-5	New Wave of Nanoscale Electroanalytical Chemistry, Room W179B, 1:30 PM
Session 2-7	Supramolecular Chemistry for Sensing, Sequestration and Separation, Room W181A, 1:30 PM
Session 5-7	Material Science: New Techniques, Room W183B, 1:30 PM
Session 5-8	Microfluidics / Lab-on-a-Chip for Analysis and Preparation, Room W183C, 1:30 PM
Session 5-9	Neurochemistry 1: Sensitivity and Measurement Optimization, Room W175A, 1:30 PM
Session 6-1P	ACS Poster Session, Room Skyline Ballroom, 5:30 PM

MONDAY MORNING, March 2

Session 2-9 Aptamer-Based Sensors, Room W178B, 8:30 AM

Session 2-13 Novel Separation and Detection Modes for Microchip and Capillary Electrophoresis, Room W183B, 8:30 AM

Session 5-14 Bioanalytical Electrochemical Methods, Room W175B, 8:30 AM

MONDAY AFTERNOON, March 2

Session 1-4 Ralph N. Adams Award, Room W179A, 1:30 PM

Session 1-5 SEAC – Charles N. Reilley and Royce W. Murray Awards Symposium, Room W183C, 1:30 PM

Session 2-18 State of the Art in Nanosensing, Room W179B, 1:30 PM

Session 4-3 NIJ (National Institute of Justice) - Advancements in the Analysis of Forensic Trace Evidence, Room W184BC, 1:30 PM

Session 5-29 Leading Edge Sensor Design, Room W177, 1:30 PM

Session 8 The Wallace H. Coulter Lecture, Room Skyline Ballroom B, 5:00 PM

TUESDAY MORNING, March 3

Session 2-21 ACS Sensors & ANYL: Frontiers in Sensing: Novel Optical Methods, Room W184BC, 8:30 AM

Session 2-23 Bioanalysis in Injured and Inflamed Tissues, Room W179A, 8:30 AM

Session 2-24 Bioanalysis, Sensing, and Imaging with Optically-Active Nanomaterials, Room W181B, 8:30 AM

Session 4-6 Ionophore-Based Chemical Sensors, Part I, Room W175A, 8:30 AM

Session 5-31 Biomarker and Aptamer Based Detection Methods, Room W175C, 8:30 AM

TUESDAY AFTERNOON, March 3

Session 2-33 Portable Instrumentation for Illicit Material Detection, Room W179A, 1:30 PM

Session 4-7 Ionophore-Based Chemical Sensors, Part II, Room W175A, 1:30 PM

Session 5-42 Magnetic Resonance, Microscopy and Imaging, Room W177, 1:30 PM

Session 5-43 Neurochemistry 2: Advances in Monitoring Neurochemicals, Room W175B, 1:30 PM

Session 609P Electrochemistry POSTERS, Room Back of 4500-4600 Aisle, Expo Floor, 2:00 PM

Session 613P Surface Analysis, Imaging and Microscopy POSTERS, Room Back of 4500-4600 Aisle, Expo Floor, 2:00 PM

WEDNESDAY MORNING, March 4

Session 2-37 Advanced NMR and MRI Studies of Lithium Ion Batteries, Room W178B, 8:30 AM

Session 2-41 Pushing the Boundaries of Brain Detection, Room W183B, 8:30 AM

Session 4-12 SEAC: The Student Session in Electroanalysis, Room W184D, 8:30 AM

Session 5-47 Bioanalytical Electrochemistry Advances, Room W175B, 8:30 AM

Session 5-51 Electrochemistry - Electrodes and Materials, Room W176C, 8:30 AM

WEDNESDAY AFTERNOON, March 4

Session 6-4P SEAC Poster Session, Room: Back of 4500-4600 Aisle, Expo Floor, 2:00 PM

Session 624P Neurochemistry, Immunoassay and Drug Discovery POSTERS, Room: Back of 4500-4600 Aisle, Expo Floor, 2:00 PM

Session 6-5P Undergraduate Poster Session, Room: Back of 4500-4600 Aisle, Expo Floor, 2:00 PM

THURSDAY MORNING, MARCH 5

Session 2-57 Molecules and Materials for Solar Fuels, Room W183B, 8:30 AM

Session 4-13 Applications of Microdialysis From A to Z, Room W184A, 8:30 AM

Session 5-53 Bioanalytical Sensor Design and Application, Room W178B, 8:30 AM

Session 5-57 Neurochemistry 3: Improved Characterization Techniques; Examination of Brain Insults, Room W177, 8:30 AM

Session 5-66 Lab-on-a-Chip / Microfluidics: Recent Progress, Room W176B, 8:30 AM

Session 5-67 Recent Developments in Microfluidics /Lab-on-a-Chip, Room W175C, 8:30 AM

Session 5-68 Sensor Advances for Biological Applications I, Room W175B, 8:30 AM

Session 630P Sensors POSTERS, Room: Back of 4500-4600 Aisle, Expo Floor, 10:00 AM

THURSDAY AFTERNOON, MARCH 5

Session 5-63 Nanotechnology, Room W184A, 1:30 PM

Session 5-71 Electrochemistry for Biochemistry, Neurochemistry and Detection, Room W176A, 1:30 PM

Session 5-75 Sensor Advances for Biological Applications II, Room W178B, 1:30 PM

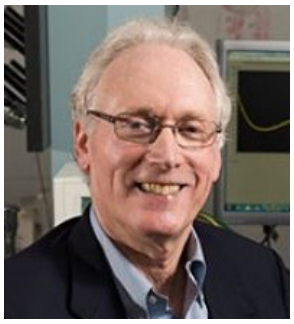
2019 POWER LIST

SEAC congratulates the following SEAC members for making it on the 2019 Power List, published in *The Analytical Scientist*, 2019; https://theanalyticalscientist.com/powerlist/2019

Christy Haynes

Joseph Wang

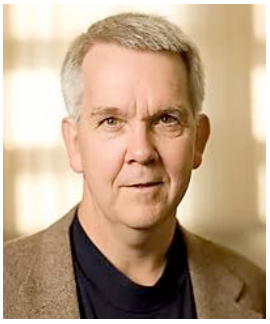
Lane Baker



Mark Meyerhoff

Susan Lunte

Robert Kennedy

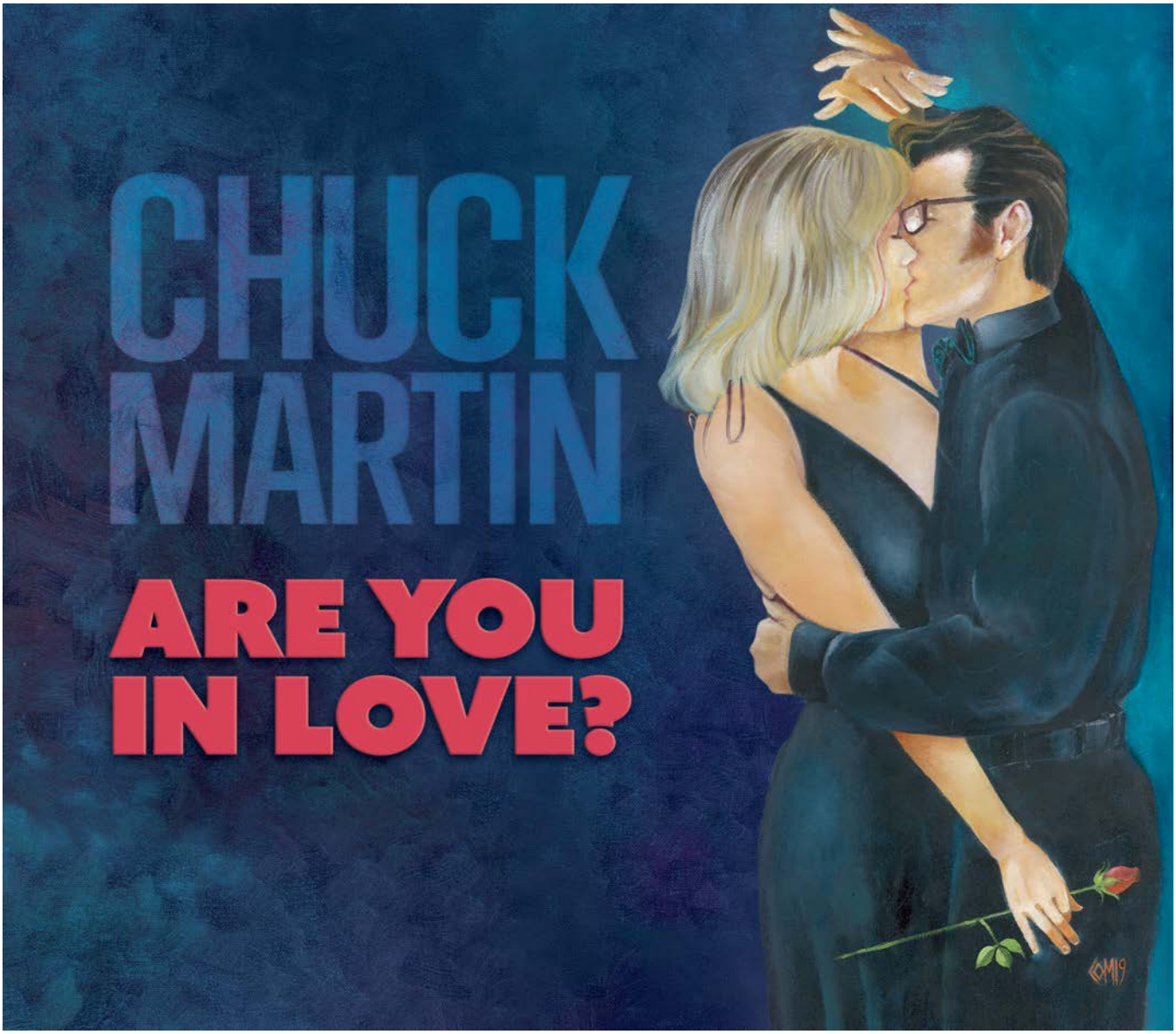


Paul Bohn

NEW YEAR, NEW ALBUM

Charles Martin just released a new album called "Are You In Love?" This is his eighth album of original music. He wrote all the songs, and recorded, engineered, and produced the album himself. Not a nano-sized effort.

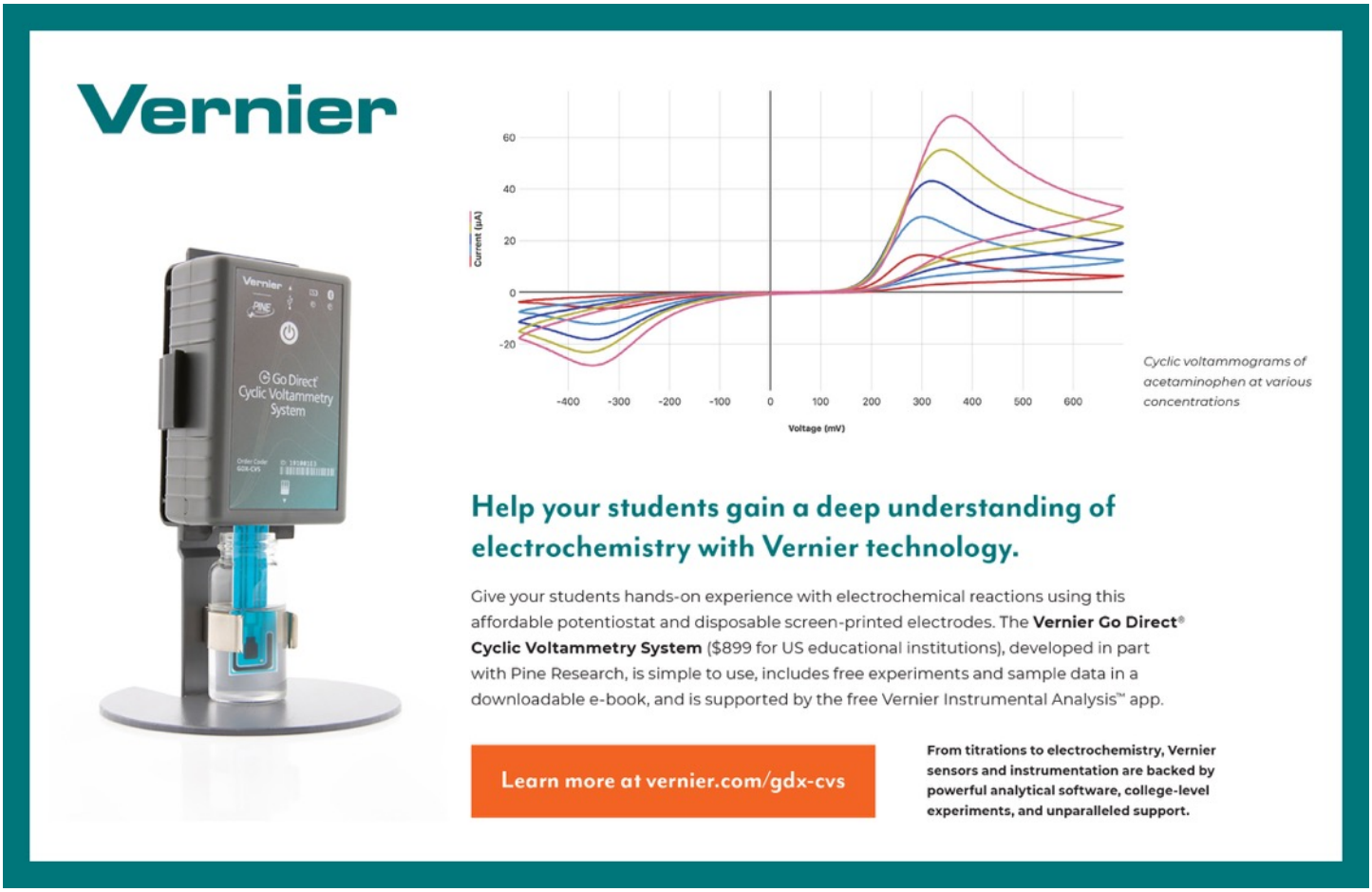
This album is streaming at most major music outlets including Spotify, Apple Music, and iTunes. Here's a link that list some sites to find his music.
https://chuckmartin.hearnow.com/are-you-in-love



PINE'S NEW POTENTIOSTAT WITH VERNIER

Pine Research Instrumentation (Durham, NC) and ***Vernier Software & Technology*** (Beaverton, OR) are excited to announce a new product developed for *cost-effectively teaching experimental electrochemistry*. The Go Direct® Cyclic Voltammetry System fully integrates into Vernier's suite of software products and connects wirelessly by Bluetooth. The potentiostat performs cyclic voltammetry, constant potential bulk electrolysis, and can also measure open circuit potential. The system is compact and easy to use, incorporating a screen-printed electrode holder right into the box. Imagine the *potential* behind a product co-developed by experts in electrochemistry and experts in education. Be sure to contact Vernier with any questions!

http://www.vernier.com/gdx-cvs



MEMBER NEWS

Gary Christian, University Washington retired at the end of 2019 as Editor-in-Chief of *Talanta*, after 30 years.

He wrote “It has been an interesting, challenging, and rewarding journey of three decades. I have seen the evolution from strictly snail mail submissions and reviewer solicitations to all digital, growth and stature of the journal, with an exponential increase in submissions and subsequent challenges to get expert reviewers, challenges of ethics violations (even an author who published 72 fake papers in 25 different journals), and more. (If you want to know more, I have an ethics talk I am happy to share.) SEAC members, of course, have been key contributors and reviewers for the journal. SEAC member Jean-Michel Kauffmann from Université Libre de Bruxelles will remain as Editor-in-Chief through this year.”.

Harry Finklea, West Virginia University, would like to contact any SEAC members who are working on desalination and/or treatment of waste water projects. I have read Dick Crook's papers on desalination via partitioning of flow into two micro-channels. My current project focuses on electrodialysis, one of several desalination methods that use electrochemistry. If you are interested in sharing information, please contact me by email: Harry.Finklea@mail.wvu.edu

Long Luo, Wayne State University, received the NSF CAREER Award this year.

Sadagopan Krishnan, Associate Professor at Oklahoma State University, enjoyed a productive sabbatical at the University of California San Diego (June-Dec 2019), in Prof. Joseph Wang's Nanoengineering Laboratory. He enjoyed the La Jolla beach and the San Diego City during his time. He coauthored in the Annual Analytical Chemistry review article with Joe Wang (*Anal. Chem.* 2020, 92, 1, 378-396, DOI: 10.1021/acs.analchem.9b04668), and published several of his own research group’s papers and reviews. More on the way for 2020!!

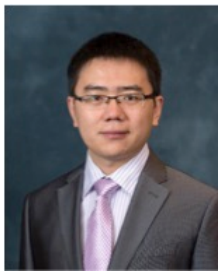
Right is a picture of Gopan (right) with Prof. Joe Wang (left) taken at the La Jolla beach:

Arzum Erdem, Ege University, Turkey, was re-elected as the Special Committee member of Association of Academies and Societies of Sciences in Asia (AASSA)-Women In Science and Engineering (WISE) in August, 2019 for the term of 2019-2021.

http://aassa.asia/about/special_committee_test4.php

Maryanne Collinson, Virginia Commonwealth Univ., introduces ***Xuewei Wang***, who has started as an assistant professor in analytical chemistry at Virginia Commonwealth University. Dr. Wang comes to VCU from Professor Mark Meyerhoff's group at the University of Michigan where he was a JDRF Advanced Postdoctoral Fellow. A major research focus of the Wang group at VCU is the development of portable, wearable, implantable, and microfluidic chemical sensors used for health monitoring and disease diagnosis outside of hospital settings.

https://chemistry.vcu.edu/people/faculty/wang-.html



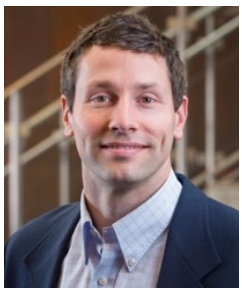
Dennis Johnson, Iowa State University, passed away on March 11, 2019.

https://cen.acs.org/people/obituaries/Obituary-Dennis-C-Johnson/97/i46

SPECIAL THANKS TO NEW LIFETIME MEMBERS! (September 2019 ~ January 2020)

Special thanks go to ***Joaquin Rodriguez-Lopez*** (Associate Professor, Department of Chemistry, University of Illinois, Urbana-Champaign), ***Alex Martinson*** (Chemist, Argonne National Lab), ***Ryan White*** (Associate Professor, Department of Chemistry, University of Cincinnati), ***Maryanne Collinson*** (Professor, Department of Chemistry, Virginia Commonwealth University) and ***Frédérique Deiss*** (Assistant Professor, Department of Chemistry & Chemical Biology, Indiana University–Purdue University Indianapolis), who has contributed with installments towards lifetime membership!

Joaquin Rodriguez-Lopez



Alex Martinson

Ryan White

Maryanne Collinson

Frédérique Deiss

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*
2020 CEC Annual Workshop on Electrochemistry	**2020, Feb. 22–23**	**Austin, TX**	http://cec.cm.utexas.edu/2020-cec-annual-workshop-electrochemistry
Pittcon 2020	**2020, March 1–5**	**Chicago, IL**	https://pittcon.org/
26th ISE Topical Meeting: Metal Deposition for Semiconductor and Green Energy	2020, March 29–April 1	Tainan, Taiwan	https://topical26.ise-online.org/
237th ECS Meeting with the 18th International Meeting on Chemical Sensors (IMCS 2020)	**2020, May 10–15**	**Montreal, Canada**	**https://www.electrochem.org/237**
27th ISE Topical Meeting: Electroanalytical Chemistry and Bioelectroanalysis	2020, May 18–20	Salt Lake City, UT	https://topical27.ise-online.org/
9th meeting of Electrochemistry in Nanoscience (ElecNano9)	2020, May 25–27	Paris, France	www.elecnano.fr
Biosensors 2020 (30th Anniversary World Congress on Biosensors)	2020, May 26–29	Busan, South Korea	https://www.elsevier.com/events/conferences/world-congress-on-biosensors
18th International Conference on Electroanalysis (ESEAC 2020)	2020, June 14–18	Vilnius, Lithuania	www.eseac2020.com
71st ISE Annual Meeting: Electrochemistry towards Excellence	2020, Aug 30–Sept 4	Belgrade, Serbia	https://annual71.ise-online.org/
ISEAC41 Environmental and Food Monitoring	**2020, Sept 7–11**	**Regensburg, Germany**	**http://www.iseac-conferences.org/**
Electrochemistry 2020	2020, Sept 23–25	Berlin, Germany	http://www.gdch.de/electrochemistry2020
PRiME 2020	2020, Oct 4–9	Honolulu, HI	https://www.electrochem.org/prime2020
Nanopore Electrochemistry Meeting	2020, Oct 10–12	Nanjing, China	http://hysz.nju.edu.cn/ytlong/Data/List/meeting
11th International Frumkin Symposium on Electrochemistry	**2020, Oct 19–23**	**Moscow, Russia**	http://frumkinsymp.ru/
28th ISE Topical Meeting "Challenges in Molecular Electrochemistry and Surface Reactivity"	2021, March 29–April 1	Santiago, Chile	https://www.ise-online.org/ise-conferences/next_ISE-meetings.php
Pittcon 2021	2021, March 7-11	New Orleans, LA	https://pittcon.org/

Meeting	*When*	*Where*	*Link for More Information*
239th ECS Meeting	2021, May 30–June 3	Chicago, IL	https://www.electrochem.org/upcoming-meetings/
72nd ISE Annual Meeting	2021, Aug 29–Sept 3	Jeju Island, South Korea	https://www.ise-online.org/ise-conferences/next_ISE-meetings.php
240th ECS Meeting	2021, Oct 10–15	Orlando, FL	https://www.electrochem.org/upcoming-meetings/
Pittcon 2022	2022, March 6-10	Atlanta, GA	https://pittcon.org/

2020 CEC Annual Workshop on Electrochemistry — Feb. 22~23, 2020

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 2020 CEC Annual Workshop on Electrochemistry will be held February 22–23, 2020, on the University of Texas campus in Austin, Texas. The Workshop will focus on four main topics: *Electrochemistry in Clinical and Medicinal Studies, Photoelectrochemistry, Electrical Energy Storage, and New Advances in Electrochemistry.* The program follows below.

Registration and Workshop information **details:** Available beginning Nov. 1, 2019, at http://cec.cm.utexas.edu/2020-cec-annual-workshop-electrochemistry.

Posters*:* Attendees are invited to present posters at the poster session/reception scheduled for Saturday, February 22, 2020 from 5:30 – 8 pm. *To present a poster, you must register for the Workshop and submit your poster title during your registration session.*

Exhibition*:* If your company is a CEC Industrial Affiliate in good standing or wish to become a CEC Industrial Affiliate, 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.

2020 CEC Annual Workshop on Electrochemistry

February 22–23, 2020

Electrochemistry in Clinical and Medicinal Studies

Shana Kelley, *University of Toronto***,** Electrochemical Biomolecular Sensors: Striving for Simplicity

Leslie Sombers, *North Carolina State University*, Advancing Voltammetry and Analysis Strategies for Neurochemical Measurements with Enhanced Functionality, Chemical Diversity, and Selectivity

Dipankar Koley, *Oregon State University*, Scanning Electrochemical Microscopy (SECM) and Electrochemical Sensors: New Tools to Study Biomaterials and Associated Biofilms

Photoelectrochemistry

Nathan Lewis, *California Institute of Technology*, The Direct Production of Fuels from Sunlight by Semiconductor Photoelectrochemistry

Shannon Boettcher, *University of Oregon***,** Nanoscale Probes of Carrier-Selective Catalyst-Semiconductor Contacts in Water-Splitting Photoelectrodes

David Ginger, *University of Washington*, Solar Surfaces: Passivating Perovskite Interfaces for High Efficiency Solar Cells

Electrical Energy Storage

Chungsheng Wang, *University of Maryland,* Water-in-Salt Electrolyte (WISE) Li-ion Batteries
William Chueh, *Stanford University,* Characterizing Insertion Compounds: Defects, Reaction, Transport and Phase Transformations
Christopher Johnson, *Argonne National Lab,* Na-ion Batteries: The Best Option for Beyond Li-Ion Batteries?

New Advances in Electrochemistry

Pat Unwin, *University of Warwick*, Correlative Electrochemical Multi-Microscopy: Building an Understanding of Electrochemical Interfaces From Local to Global
Yogesh Surendranath, *Massachusetts Institute of Technology,* Understanding Inner-Sphere Electrochemical Reactions at the Molecular Level

Student Travel Awards for the 18th International Meeting on Chemical Sensors (IMCS) — May 10~14, 2020

The 18th International Meeting on Chemical Sensors (IMCS) will be held on May 10-14 in parallel with 237th ECS meeting in Montreal, Canada. IMCS will have an extended program compared to prior IMCS Meetings due to enthusiastic response from the community. Over 635 abstracts were received for the meeting. There will be parallel sessions for four days, and two parallel sessions on Sunday May 10th. **Students travel awards are available**. Students travel award application deadline is **February 10, 2020**. Please contact ***Prof. Xiangqun Zeng***, Oakland University (zeng@oakland.edu) if you have any questions. The meeting link is:

https://imcs2020.gatech.edu/call-for-papers/?utm_source=ActiveCampaign&utm_medium=email&utm_content=Call+for+papers+-+December+2nd&utm_campaign=IMCS+conference+-+exhibition+1

ISEAC41 Environmental and Food Monitoring — Sept. 7~11, 2020

ISEAC41 Environmental and Food Monitoring will take place in Regensburg, Germany, Sept. 7 - 11, 2020, organized by SEAC member, ***Antje Baeumner***. This conference will bring together researchers from academia, industry and regulatory agencies to discuss most current research and challenges facing our societies related to the environmental and food safety. Visit http://www.iseac-conferences.org/ to find out more about program, invited speakers, sponsors, registration deadlines, the World Food Forum, etc.

International Frumkin Symposium on Electrochemistry — Oct. 19~23, 2020

The international Frumkin Symposium on electrochemistry will be organized in Moscow. The approximate dates are October 19-23. The main idea of this Symposium is to bring together people participating different electroanalytical conferences: ESEAC, ISEAC, Matrafured conference, Russian electroanalytical conference (Electrochemical methods of analysis, EMA).

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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.