

# SEAC *communications*

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Available on the WWW at <http://electroanalytical.org>

## PRESIDENT'S MESSAGE

Dear SEAC Members,

I want to start with a few important reminders. For those who are interested in attending the next Pittcon (March 6-10, 2021 in New Orleans), the due date for abstract submission for the SEAC poster session is October 23. For those who work with undergraduate research assistants, please pay attention to the announcement for the Kolthoff Undergraduate Travel Awards from ACS Division of Analytical Chemistry. This is a very nice opportunity for supporting undergraduates to attend Pittcon or the ACS Spring Meeting. Please encourage your undergraduate students, graduate students, and postdocs to attend the Second Annual SEAC Student Group Meeting, organized by Lane Baker. The SEAC Student Group Meeting was a huge success at the last Pittcon. We greatly appreciate Lane's efforts in organizing the meeting!

We are delighted to hear about the wonderful awards our members have recently received. Robbyn Anand was selected for the 2020 Satinder Ahuja Award for Young Investigators in Separation Science and the Pittcon Achievement Award. Kathy Ayers was selected as an ECS Fellow this year. Hang Ren received the DARPA Young Faculty Award. Christian Amatore have been awarded the Gold Medal of *Electrochimica Acta* from the ISE. **Big congratulations to all of you!!!**

Last but not least, I encourage all of you to check out the Diversity, Equity, and Inclusion (DEI) in Analytical Chemistry Slack channel from Ashley Ross. The DEI in Analytical Chemistry is a very interesting forum to promote and support diversity, equity, and inclusion in Analytical Chemistry.

Sincerely,

Bo Zhang

President, 2019-2021

### In this issue--

#### President's Message

#### Pittcon 2021 – March 6~10, 2021

- SEAC Poster Session (March 10, 2021): **Abstract Submission Deadline: October 23, 2020**
- SEAC Student Group Meeting (SEAC-SGM) – March 6, 2021

#### Travel Awards for Undergraduate Students by ACS-DAC for Pittcon and Spring ACS Meeting Diversity, Equity, and Inclusion in Analytical Chemistry Slack

#### Obituary of Jean-Michel Savéant

#### Member News

- Robbyn Anand
- Kathy Ayers
- Hang Ren
- Christian Amatore
- Xiangqun Zeng/Zhe Wang
- Joseph Wang/Amay Bandodkar

#### Special Thanks to New Lifetime Members!

#### Meetings to Come

- 18<sup>th</sup> International Meeting on Chemical Sensors – May 30 ~ June 3, 2021

#### Job Openings

- Instrumentation Specialist at Creighton University
- Ten postdoc positions at the NSF Center for Synthetic Organic Electrochemistry
- Two postdoc positions at Southern Illinois University, Carbondale
- Postdoc position at Virginia Commonwealth University
- Postdoc position at Miami University, Ohio

#### Special Thanks to Our Sponsors!

#### How Easy it is to Become a SEAC Member

## PITTCON 2021 – March 6~10, 2021

*SEAC Poster Session (March 10, 2021)*

**Abstract Submission Deadline: October 23, 2020**

<https://pittcon.org/technical-program/call-for-papers/>

### SEAC Poster Session

**Wednesday, March 10, 2021**

We are pleased to announce that we will be offering a Poster session for Society for Electroanalytical Chemistry (SEAC) members. The poster session is scheduled for Wednesday, March 10.

*The location and time of the poster session will be announced at a later date.*

### *SEAC Student Group Meeting (SEAC-SGM) – March 6, 2021*



The SEAC Student Group Meeting (SEAC-SGM) will be held in conjunction with Pittcon 2021 in New Orleans, LA. Registration and information can be found here:

<https://docs.google.com/forms/d/e/1FAIpQLScEiZEaVzS42beIO2os9SHSeZqCa2UINL0AkXNjPouka9GiA/viewform>

In the event Pittcon 2021 goes virtual, the SEAC-SGM will also move to a virtual format.

**Questions? Contact Lane Baker (lanbaker@indiana.edu).**

## TRAVEL AWARDS FOR UNDERGRADUATE STUDENTS

The American Chemical Society Division of Analytical Chemistry encourages undergraduate students to apply for this travel award to present their research in spring 2021 at either PITTCON or the spring ACS meeting. If meetings are held virtually, the award will be used to cover registration fees.

**Amount of Award:** up to \$750

**Deadline:** 2<sup>nd</sup> Monday in January 2021

**Award name:** I. M. Kolthoff Enrichment Awards for Undergraduate Students

**Instructions:**

[Click here](#) or go to the site below for further information and to access the online application.

<https://acsanalytical.org/kolthoff-travel-awards-for-undergraduate-students/>

*Preference will be given to undergraduate chemistry majors with strong academic records who have made significant research contributions in the analytical sciences for whom this would be their first national meeting presentation and who have access to limited other support mechanisms.*

**Questions? Contact Erin Gross ([ErinGross@creighton.edu](mailto:ErinGross@creighton.edu)).**

## DIVERSITY, EQUITY, AND INCLUSION IN ANALYTICAL CHEMISTRY SLACK



Ashley Ross at the University of Cincinnati has launched the Diversity, Equity, and Inclusion in Analytical Chemistry Slack channel. The goal of the DEI in Analytical Chemistry Slack is to provide a platform which enables communication between students, faculty, industry and government who identify themselves as analytical chemists to discuss important topics in improving equity and inclusion, promote the work of analytical scientists who are from underrepresented groups in STEM, and foster collaboration between diverse scientists in analytical chemistry. The Slack channel offers several forums for discussion on upcoming projects that need collaborators, an area to post job listings, discussion boards for topics centered around equity and inclusion in the classroom and beyond, a list of underrepresented scientists in analytical chemistry to invite for seminars, and a designated student channel.

To find out more please go to <https://diversityinanalyticalchemistry.com/>. To become a member, please email Ashley Ross at [diversityinanalyticalchemistry@gmail.com](mailto:diversityinanalyticalchemistry@gmail.com) with your name and a short description of your research area.



The DEI in Analytical Chemistry Slack has just launched a new virtual seminar series this fall called the Analytical Chemistry Diversity Colloquium (AC/DC)!! Our inaugural speaker was Prof. Shelley Minter from the University of Utah on September 21<sup>st</sup> who spoke on “Electroanalytical Techniques for Enzymology”. The seminar is on the 3<sup>rd</sup> Wednesday of every month at 1:00 pm EST

followed by an “Ask the Experts” panel featuring students and post-docs from the speaker’s lab. The Wednesday prior to the seminar (2<sup>nd</sup> Wednesday of the month) at 1:00 pm EST, the seminar speaker’s lab hosts a virtual literature meeting. The literature meeting is a great opportunity for students and post-docs to receive a primer on important topics that will be highlighted in the seminar. **To receive the links to the meeting and to be added to the AC/DC listserv for more information on upcoming talks, please register on the DEI in Analytical Chemistry Slack webpage: <https://diversityinanalyticalchemistry.com/underrepresented-scientists-in-analytical-chemistry-seminar-series/>** (scroll to the bottom of this page)

We look forward to virtually seeing you there!

Sincerely,

Prof. Ashley Ross, Matthew Lockett, and Ryan White

## **OBITUARY OF JEAN-MICHEL SAVÉANT**

*By Christian Amatore, Cyrille Costentin and Marc Robert*

*Adapted from their portrait for the International Society of Electrochemistry with their permission.*



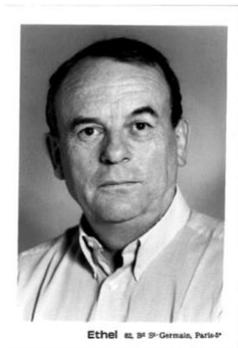
Jean-Michel Savéant, Emeritus Professor at University of Paris and former Research Director at French CNRS (National Center for Scientific Research) passed away on August 16th, 2020. He was a giant of electrochemistry, allying a strong personality, an extreme rigor and also elegance in his work, a deep creativity and a communicative enthusiasm for exploring without any rest the frontiers of knowledge and chemical sciences. He was a member of the French Academy of Sciences since 2000 and a Foreign Associate of the National Academy of Sciences of the United States of America since 2001.

Jean-Michel's scientific activity merges with the foundation and the development of molecular electrochemistry. He has pioneered and developed most aspects of this field, from instrumentation to theoretical aspects and practical applications. But he also pioneered the use of an ensuing enormous body of knowledge, tools and models to develop highly original and key contributions towards various sub-fields of chemistry and biochemistry, including electron and proton transfer chemistry, modelling of chemical reactivity, chemistry of free radicals, chemistry of metal complexes, photochemistry, physical chemistry of solids, enzymology, and finally catalytic activation of small molecules such as CO<sub>2</sub> and H<sub>2</sub>O, in a conceptual and practical effort to solve contemporary energy challenges.

Jean-Michel Savéant belonged to a glorious era of electrochemistry when Science was guided by the curiosity for understanding the world better and scientists were colorful personalities. He leaves an enormous scientific legacy with hundreds of papers shining there to reflect his enormous impact. Electrochemistry and Science as a whole have lost a giant and many of us will miss a friend and a mentor.

See also <https://www.electrochem.org/ecs-blog/ecs-mourns-jean-michel-saveant/#more-62893>

## Treasures Found When Francois Mavré Took Care of Savéant's Office

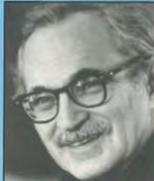
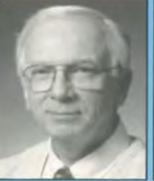


Young Jean-Michel Savéant

**CURRENT SEPARATIONS**

Vol. 17 No. 2  
Bioanalytical Systems / July 1998

Society for Electroanalytical Chemistry  
**SEAC**  
d 1984

					
Allen J. Bard - 1984	Ralph N. Adams - 1985	Fred C. Anson - 1986	Robert Osteryoung - 1987		
					
Royce W. Murray - 1988	Theodore Kuwana - 1989	Jean-Michel Savéant - 1990	Stanley Bruckenstein - 1991	Stephen Feldberg - 1992	
					
Dennis H. Evans - 1993	Barry Miller - 1994	William R. Heineman - 1995	R. Mark Wightman - 1996	Dennis C. Johnson - 1997	Larry R. Faulkner - 1998

**Charles N. Reilly Award Winners 1984 - 1998**

## MEMBER NEWS

The Subdivision on Chromatography and Separations Chemistry of the American Chemical Society's Division of Analytical Chemistry recently announced **Professor Robbyn K. Anand** as the recipient of the 2020 Satinder Ahuja Award for Young Investigators in Separation Science. This award recognizes and encourages outstanding contributions to the field of separation science by a young chemist or chemical engineer from academia, industry, or national laboratories.

**Prof. Anand** will also receive the 2021 Pittsburgh Conference Achievement Award, which is awarded in recognition of outstanding achievements in the fields of analytical chemistry and/or applied spectroscopy by the Society of Analytical Chemists of Pittsburgh. Both awards will be formally presented to Prof. Anand at Pittcon in March 2021.



**Kathy Ayers**, Vice President, Research and Development, Nel Hydrogen, was selected as an ECS Fellow this year.

<https://www.electrochem.org/prime2020/fellows>



**Hang Ren**, an Assistant Professor at Miami University, Ohio, received the DARPA Young Faculty Award to study the initiation and nucleation of corrosion.



**Christian Amatore** have been awarded the Gold Medal of Electrochimica Acta from the ISE. He should be receiving it during the 72<sup>nd</sup> Annual ISE Meeting to be held on August 29 - September 3, 2021, in Jeju Island, South Korea, provided the COVID-19 allows it.



**Xiangqun Zeng** introduces **Zhe Wang**, who has joined as an Assistant Professor of Chemistry at Oakland University in 2020. He served as a postdoctoral fellow at the University of California Los Angeles and Oakland University, where he worked on the multifunctional materials and electrochemistry sensor projects. Before joining Oakland University, he held an Assistant Professor position at Xavier University of Louisiana. He has more than 60 publications and 2 patents. Currently, he is leading the multiple projects supported by NSF, DOD, and NIH studying interfacial materials and phenomena, particularly focusing on the molecular reactions at the electrode/liquid/gas interface using electrochemical and spectroscopic methods, including:



1. Studies of small molecules electrochemical syntheses and conversions derived in the ionic liquids.
2. Using the predictable and tuneable bio-interfaces to design a highly specific small molecule and biomarker quantification methods for in vivo and in vitro testing.
3. Sensor array systems and detection integration.

**Joseph Wang** introduces **Amay Bandodkar**, who will start as a tenure-track Assistant Professor in Electrical and Computer Engineering at North Carolina State University in January 2021. He received his PhD from Prof. Joseph Wang's lab at UCSD in 2016, and then worked as a postdoc with Prof. John Rogers at Northwestern University. He will continue his pioneering research on wearable electrochemical sensors and energy devices.



## **SPECIAL THANKS TO NEW LIFETIME MEMBERS! (July 2020 ~ September 2020)**

Special thanks go to **Lisandro Cunci** (Associate Professor, Department of Chemistry, Universidad Ana G. Mendez: Gurabo) and **Yangguang Ou** (Assistant Professor, Department of Chemistry, University of Vermont), who have contributed with installments towards lifetime membership!



Lisandro Cunci



Yangguang Ou

## MEETINGS TO COME

Meetings of interest to our SEAC members abound during the coming year, with symposia being organized by some among us.

<b>Meeting</b>	<b>When</b>	<b>Where</b>	<b>Link for More Information</b>
<b>Pittcon 2021 w/ SEAC Student Group Meeting</b>	2021, March 6–10	New Orleans, LA	<a href="https://pittcon.org/">https://pittcon.org/</a>
ACS National Meeting & Expo – Macromolecular Chemistry: The Second Century	2021, March 21–25	San Antonio, TX	<a href="https://www.acs.org/content/acs/en/meetings/national-meeting/about/future-meetings.html">https://www.acs.org/content/acs/en/meetings/national-meeting/about/future-meetings.html</a>
28 <sup>th</sup> ISE Topical Meeting “Challenges in Molecular Electrochemistry and Surface Reactivity”	2021, March 29–April 1	Santiago, Chile	<a href="https://www.ise-online.org/ise-conferences/next_ISE-meetings.php">https://www.ise-online.org/ise-conferences/next_ISE-meetings.php</a>
29 <sup>th</sup> ISE Topical Meeting “Energy and Water: Electrochemistry in Securing the Sustainable Society Development”	2021, April 18–21	Mikulov, Czech Republic	<a href="https://www.ise-online.org/ise-conferences/next_ISE-meetings.php">https://www.ise-online.org/ise-conferences/next_ISE-meetings.php</a>
239 <sup>th</sup> ECS Meeting	2021, May 30–June 3	Chicago, IL	<a href="https://www.electrochem.org/239">https://www.electrochem.org/239</a>
<b>18th International Meeting on Chemical Sensors (IMCS)</b>	2021, May 30–June 3	Chicago, IL	<a href="https://imcs2020.gatech.edu/">https://imcs2020.gatech.edu/</a>
Gordon Research Conference – Electrochemical Interfaces in Energy Conversion and Storage: Understanding Electrochemical Interfaces at the Atomic Scale	2021, June 27–July 2	Ventura, CA	<a href="https://www.grc.org/electrochemical-interfaces-in-energy-conversion-and-storage-conference/2021/">https://www.grc.org/electrochemical-interfaces-in-energy-conversion-and-storage-conference/2021/</a>
Gordon Research Conference – Electrochemical Interfaces in Energy Conversion and Storage: Electrochemical Interfaces in Energy Conversion and Storage (rescheduled from 2020)	2021, July 18–23	Hong Kong, China	<a href="https://www.grc.org/electrochemical-interfaces-in-energy-conversion-and-storage-conference/2020/">https://www.grc.org/electrochemical-interfaces-in-energy-conversion-and-storage-conference/2020/</a>
ACS National Meeting & Expo – Resilience of Chemistry	2021, Aug 22–26	Atlanta, GA	<a href="https://www.acs.org/content/acs/en/meetings/national-meeting/about/future-meetings.html">https://www.acs.org/content/acs/en/meetings/national-meeting/about/future-meetings.html</a>
72 <sup>nd</sup> ISE Annual Meeting	2021, Aug 29–Sept 3	Jeju Island, South Korea	<a href="https://www.ise-online.org/ise-conferences/next_ISE-meetings.php">https://www.ise-online.org/ise-conferences/next_ISE-meetings.php</a>
ISEAC41 Environmental and Food Monitoring	2021, Sept 13–17	Regensburg, Germany	<a href="http://www.iseac-conferences.org/">http://www.iseac-conferences.org/</a>
240 <sup>th</sup> ECS Meeting	2021, Oct 10–15	Orlando, FL	<a href="https://www.electrochem.org/240">https://www.electrochem.org/240</a>

<b>Meeting</b>	<b>When</b>	<b>Where</b>	<b>Link for More Information</b>
11 <sup>th</sup> International Frumkin Symposium on Electrochemistry	2021, Oct 18–22	Moscow, Russia	<a href="http://frumkinsymp.ru/">http://frumkinsymp.ru/</a>
Pacificchem 2021: A Creative Vision for the Future	2021, Dec 16–21	Honolulu, HI	<a href="https://pacificchem.org/">https://pacificchem.org/</a>

### 18th International Meeting on Chemical Sensors (IMCS) — May 30 ~ June 3, 2021

The 18th IMCS meeting (International meeting on Chemical Sensors) will be held at Chicago on May 30-June 3rd. It will be held jointly with the ECS meeting. The organizers are so far planning to hold the meeting in person and hope the pandemic will be over by that time. Abstract submission is open as well. The call for papers can be found at the following web site: [imcs2021.gatech.edu](http://imcs2021.gatech.edu)

## 18th International Meeting on Chemical Sensors (IMCS)

Chicago Illinois, USA, May 30- June 3rd, 2021

Chicago Hilton Hotel, Michigan Avenue, Chicago, IL, USA

Co-located with the 239th Meeting of the Electrochemical Society

Plenary Speakers

<p><b>Elizabeth (Lisa) Hall</b>, “From Gene to Device: The Route to Diagnostics in Low Resource Countries,” Department of Chemical Engineering and Biotechnology, University of Cambridge, UK.</p>	<p><b>Mark Meyerhoff</b>, “Electrochemical/Optical Sensors in Medicine - Meeting Needs for the 21st Century,” Department of Chemistry, University of Michigan, Ann Arbor, MI, USA.</p>
<p><b>Jong-Heun Lee</b>, “Design Strategies for High Performance Oxide Semiconductor Gas Sensors,” Department of Materials Science, Korea University, Seoul, S. Korea</p>	<p><b>Joseph Wang</b>, “Wearable Electrochemical Sensors,” Department of Nanoengineering, University of California, San Diego, CA, USA</p>

### Technical Programs

- Artificial Intelligence, Machine Learning, Chemometrics, Sensor Arrays
- Chemical and Biosensors, Medical/Health and Wearables
- Electrochemical and Metal Oxide Sensors

- Sensors for Agriculture and Environmental Applications
- COVID19, Pathogen Related Research, Development, Engineering in Sensors and Sensor Systems
- IOT, Infrastructure, Electronics and Signal Processing for Sensors

- MEMS/NEMS Sensors, Materials
- Microfluidic Devices and Sensors
- Optical Sensors and Plasmonics
- Sensors for Breath Analysis, Biomimetic Taste and Olfaction Sensing
- Chemical and Biosensing Materials and Sensing Interface Design

### Deadlines

- Abstract submission opens September 2020
- Abstracts due in December 4<sup>th</sup> 2020
- Abstracts accepted in February 2021

- Meeting registration opens in December 2020
- Meeting Sponsor and Exhibitor Deadline in March 2021

### Chairs

**Peter J. Hesketh**, Georgia Institute of Technology, email: [hesketh@gatech.edu](mailto:hesketh@gatech.edu); **Xiangqun Zeng**, Oakland University, email [zeng@oakland.edu](mailto:zeng@oakland.edu)

**Joseph R. Stetter**, KWJ Engineering Inc, email: [jrstetter@gmail.com](mailto:jrstetter@gmail.com)

<http://imcs2021.gatech.edu>

## JOB OPENINGS

### **Instrumentation Specialist at the Department of Chemistry, Creighton University**

The Creighton University Department of Chemistry is hiring an Instrumentation Specialist. Anyone interested in this position can read more at the following link:

<https://chemistryjobs.acs.org/job/29483/instrument-specialist-/?LinkSource=PromotedJob>

### **Ten Postdoc Positions at the National Science Foundation Center for Synthetic Organic Electrochemistry**

Ten post-doctoral positions supported by the **National Science Foundation Center for Synthetic Organic Electrochemistry** (<http://cci.utah.edu>) are immediately available at the University of Utah, California Institute of Technology, Cornell University, University of Minnesota, Brown University, and University of Michigan. Positions are available for candidates with organic synthesis, electrocatalysis, materials electrochemistry, physical electrochemistry, surface science, electroanalytical chemistry, and computational chemistry experience. Candidates must have PhD in chemistry or related field with a strong background in one or more of the areas above. Candidates should submit their complete CV and a cover letter to [csoe@chem.utah.edu](mailto:csoe@chem.utah.edu). Applications will be reviewed immediately upon receipt. We are equal opportunity employers and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

### **Two Postdoctoral Scientist in Electrochemical Biosensors at the Department of Chemistry, Southern Illinois University, Carbondale**

The laboratory of Dr. Mohtashim Shamsi is seeking to fill **two** postdoctoral scientist positions immediately. The field of Microfluidic Electrochemical Biosensors has flourished in recent years and will revolutionize point-of-care health diagnostics in many different ways. The new direction in the field is to fabricate ultra-low cost diagnostic chips using printing methods. The successful applicant will join a well-equipped and vibrant research group for developing low-cost and sensitive sensors for the detection of neurodegenerative disease biomarkers.

A PhD in chemistry or chemical engineering (or a university certificate stating that all requirements for the corresponding PhD degree have been met). Experience within at least **three** following areas is highly preferred and will be judged by publications, i.e., device fabrication, electrochemical sensing/biosensing, surface chemistry, protein assays, and nucleic acid assays. Good publication record with desire to learn new skills is essential.

Candidates should send a detailed CV (including lists of publications, presentations, and professional references) and a cover letter describing their research interests (attention Dr. Mohtashim Shamsi) to: [mshamsi@chem.siu.edu](mailto:mshamsi@chem.siu.edu). Additional information may be found at: [www.mshamsi.com](http://www.mshamsi.com).

### **Postdoc Position at the Department of Chemistry, Virginia Commonwealth University**

A postdoctoral research associate with experience in liquid chromatography and interested in the fabrication and characterization of new stationary phase materials is being sought. Attention to detail, good experimental and record-keeping skills, and a desire to learn new things are required. Please contact Maryanne M. Collinson, Professor of Chemistry, Virginia Commonwealth University, Richmond, VA at [mmcollinson@vcu.edu](mailto:mmcollinson@vcu.edu). <https://chemistry.vcu.edu/people/faculty/collinson.html>

### **Postdoc Position at the Department of Chemistry, Miami University, Ohio**

Hang Ren's lab currently has one postdoc position available for studying nanoelectrochemistry using scanning electrochemical probe techniques, including SECCM. Please email [renhang@miamioh.edu](mailto:renhang@miamioh.edu) for more details.

## 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.