



Industrial & Engineering Chemistry

Making Chemistry Work!

2020 Spring Newsletter

I&EC Executive Board

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Chair-Elect: Carter Abney

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Past-Chair: Glenn Fugate

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Treasurer 2020-2021: Kevin Charette

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Secretary 2019-2020: Maria Kriz (acting)

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Councilor 2018-2020: Mary Engelman

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Councilor 2019-2021: Leigh Martin

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Deputy Program Chair: vacant

Program Secretary: June Kowalski

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Awards: Leigh Martin

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SST Vice Chair: Shannon Mahurin

SST Vice Chair-Elect: Neil Williams

SST Secretary: Maria Kriz

Chair's Report

As you should all be aware 2020 has started off with some significant challenges for the country and the American Chemical Society. The Division is continuing to move forward with changes initiated in 2019 that will bring an updated, enhanced website that will allow the Division to more effectively share information and activities with you the members. We are in the process of rolling our new site out to the



Sam Morton
I&EC Chair

public and this will be the source of much of our current and archival information. The significant modifications to the By-laws that have occupied so much of our Division leadership time have been completed, ratified by the membership and are in effect at the time of this newsletter. As always, there will be future actions to improve both the By-laws and Divisional standing policies as we move forward with our efforts to increase the accessibility, transparency, and sustainability of operations and programming for the Industrial & Engineering Chemistry Division.

The delay in this newsletter was intended to allow for the cancellation and subsequent resolution of the Spring 2020 ACS National Meeting in Philadelphia, PA. At the time of this newsletter, we are anticipating a shift of Industrial & Engineering Chemistry Business meeting to the Fall 2020 ACS National Meeting in San Francisco, CA in August. As we all gain experience with remote meetings the division will look to increase our capacity for opening these meeting to a larger audience via remote connection. It is our intention to keep you informed of opportunities to participate in divisional programming as we learn what format that will take in the months to come.

I hope this message finds you in reasonably good spirits and good health. It goes without say that the next few year will be challenging for our various professions, the Industrial & Engineering Chemistry and the American Chemical Society. Our best recommendation for up to date information on impacts from this pandemic related to the Society is via ACS update e-mails and the main ACS website. I appreciate your continued commitment to the

division, the society, and the chemical profession. If you have an interest in participation in the governance of the Industrial & Engineering Chemistry Division, please reach out to any of the division officers and we will work to find opportunities that fit your interests and the needs of the division.

Councilor' Report

San Diego Meeting Attendance

The theme of the 258th ACS National Meeting was “Chemistry and Water.”
As of Tuesday evening, August 27, attendance was:

Attendees	7,488
Students	3,095
Exhibitors	995
Expo only	430
Guest	401
Total	12,409



Mary Engelman
I&EC Councilor

2019 Career Navigator live data

Participating Employers	31
Number of Open Positions	81
Job Seeker Profiles	239
Lightning Talk Attendees	270
Career Pathway Registrations	1,180
Career Consultant Interactions	555

ACS 2020 Spring Meeting Councilor Highlights

Remember to have your voice heard and Vote in the Fall 2020 ACS Elections!!

Council will vote to finalize the candidates for the 2021 President-Elect. Four nominees have been submitted by the Nominations and Election Committee. District III and District VI will also be voting for the District Directors.

Elections for ACS President Elect will be conducted after the Fall National ACS meeting 2020:

If you know of an individual that would be a great candidate for ACS President or Director. Please contact ACS Nominations and Elections.

Council will vote on Membership Dues for 2021. Membership dues for 2021 will be announced after the Spring ACS Meeting.

Future ACS Meetings and Themes:

Fall 2020-August 16–20, San Francisco, CA, “Moving Chemistry from Bench to Market”

Spring 2021-March 21-23, San Antonio, TX, “Bonding Through Chemistry”

Fall 2021-August 22-26, Atlanta, GA, “Resilience of Chemistry”

Spring 2022-March 20-24, San Diego, CA, “Evolving Biomolecular Sciences”

Fall 2022-August 21-25, Chicago, IL, Sustainability in a Changing World”

Spring 2023-March 26-30, Indianapolis, IN, TBD

Fall 2023 August 12-17, San Francisco, CA, TBD

Spring 2024 March 17-21, New Orleans, LA, TBD

Fall 2024 August 18-21, Denver, CO, TBD

Spring 2025 March 24-27, San Diego, CA, TBD

Fall 2025 August 17-21, Washington, DC, TBD

Communications Chair's Report

Greetings, I&EC members! I hope this message finds you safe and healthy. Like many, we are saddened by the cancellation of the Spring National Meeting, but we are looking forward to seeing many of you at the Fall National meeting in San Francisco.

The Communication Committee has multiple exciting opportunities for members who are savvy in social media navigation. Strengthening our presence in the Social media is a focus this year for the Division. Please contact me directly at samina.azad@gmail.com if you are interested in joining the Communication team.

One of the key accomplishments this year is our new website! Please check it out and give us your feedback.

<https://acs-iec.org/>

Enjoy the warmer weather and be safe!



Samina Azad
I&EC
Communication/PR
Chair

Call for Nominations for the 2020 I&EC Elections

Annual I&EC elections are upcoming. The I&EC is seeking candidates for the positions:

Chair-elect (3 year commitment);

Secretary (2 year commitment);

2 Councilors (one 2 year and one 3 year commitments).

If interested in more details, please contact Glenn Fugate (fugatega@ORNL.gov). The ballot will be locked in by 1 June for the election.

Member Announcements

We are beginning a new section of the Newsletter "Member Announcements". Please send any news you would like your colleagues to know (promotion, first job, award, paper published, new patent, position available, position wanted, ...) to Newsletter Editor Dr. Maria Kriz at Maria.Kriz@srnl.doe.gov.

ACS Innovation Hub

The ACS Innovation Hub looks to bring together members and nonmembers who are working in start-ups, technology, innovation, entrepreneurship, and consulting in order to facilitate dialogue, identify synergies, and find opportunities for collaboration. It is open to all ACS members.



Programming Chair's Report

Dear I&EC Committee, though we were unable to all meet in Philadelphia for the Spring Meeting, I hope all of you and your families are staying safe and healthy during this time. Given that Spring Meeting was cancelled, we are working closely with the symposia organizers as to rescheduling the symposia that were supposed to take place in Philadelphia. However, we hope to have a great meeting in San Francisco!

We've had several changes in the Programming Committee in terms of personnel and below are the new contacts.



Anna C. Ivashko
I&EC Programming
Chair

John Clegg – Assistant Programming Chair

John Clegg is a postdoctoral fellow at the Wyss Institute and John A. Paulson School of Engineering and Applied Sciences, both at Harvard University. His current research, in the lab of Samir Mitragotri, focusses on new drug delivery systems for the treatment of neurological diseases. John received his Ph.D. in Biomedical Engineering at the University of Texas at Austin (2019) and has BS in Biomedical Engineering at the University of South Carolina (2014). During his Ph.D. study, John was an NSF Graduate Research Fellow in the laboratory of Nicholas Peppas.

John's research uses engineering design principles to develop new vehicles (i.e. particles, depots, or implants) for drug delivery which (1) traverse biological barriers and (2) respond to the physiological environment. In addition to serving as new devices for practical applications, these drug delivery systems are an enabling technology for probing fundamental questions in autoimmune diseases, neurological conditions, and cancer.

June Kowalski - I&EC Programming Committee Secretary, Chair of ACTS

June Kowalski is a PR&D Scientist for Patheon, part of Thermo Fisher Scientific's API Pharma Services. She joined the company in September 2018 where she focuses on small to large scale process development for non-GMP/cGMP API manufacturing. Prior to her current employment, she earned a B.S. degree in Chemistry (ACS Certified) at Northern Michigan University in May 2016. During her undergrad at NMU, her role as a Chemistry Research Assistant involved HPLC method development for the purification of vanadium (IV) oxide-based MRI contrast agents. After graduation, in January 2017, she began working in the environmental testing industry as a Wet Chemistry Analyst at Trace Analytical Labs. It has always been her goal to use chemistry to create positive change in our world's communities and environment; "I know I can further achieve that goal working with the I&EC technical division of ACS!"

Welcome both John and June to Programming!

For any questions and ideas in regards to I&EC Programming please contact any of us on the Programming Committee!

Anna C. Ivashko

I&EC Programming Chair

Treasurer Report

2019 Books were closed and the annual financial report filed by the previous Treasurer Janet Smith and treasurer duties have been transferred to myself, Kevin Charette.

The below table shows 2019 financials and 2020 budget submitted to ACS. Dividends and investment expenses were not budgeted for this year because of the treasurer transition, but I plan on investing part of I&EC funds in the coming weeks.

Although 2019 showed a net loss of \$10477.15, this was budgeted for and both income and expenses came within 3% of the overall budget for 2019.

Income	2019 Actual	2020 Budget
grants/awards	\$ 11,000.00	\$ 13,500.00
councilor reimbursement	\$ 8,316.14	\$ 9,300.00
dues	\$ 18,432.00	\$ 21,000.00
allotment	\$ 21,040.59	\$ 21,000.00
interest	\$ 11.35	\$ 700.00
dividends	\$ 3,107.65	\$ -
royalties	\$ 254.39	\$ 400.00
misc	\$ 412.21	\$ 100.00
sub total	\$ 62,574.33	\$ 66,000.00

Expenses		
grants/awards	\$ 5,513.72	\$ 15,000.00
speaker fees & expenses	\$ 4,853.87	\$ 1,400.00
registrations	\$ 1,180.00	\$ 2,250.00
meeting expenses	\$ 7,661.98	\$ 4,000.00
investment expenses	\$ 1,671.41	\$ -
ballots,newsletter, postage	\$ 5,357.63	\$ 4,000.00
conferences	\$ 5,750.00	\$ 2,000.00
admin	\$ 3,890.90	\$ 2,500.00
Dinner meetings/Receptions	\$ 4,955.25	\$ 4,500.00
councilor travel	\$ 12,252.63	\$ 11,000.00
exec travel	\$ 19,708.16	\$ 19,000.00
other	\$ 255.93	\$ 350.00
sub total	\$ 73,051.48	\$ 66,000.00

Net Gain (Loss) \$(10,477.15)

SS&T Subdivision

I'm sure everyone was as disappointed as I was to hear of the canceling of the Spring National Meeting, where we will miss hearing from the excellent line-up of speakers who had planned to present in our Third Annual Joint Symposium of the Separation Subdivisions. This is an annual symposium co-organized by the Subdivision of Chromatography and Separations of the Analytical Division and our own Separation Science and Technology subdivision, and is designed to highlight overlapping areas of interest in separations and facilitate interactions between researchers with shared interests across divisions.

Looking ahead, we are always looking for new ideas for separations related symposia. If you have any ideas for future programming, are interested in organizing a symposium at a future national meeting, or are interested in becoming more involved in the subdivision, please reach out to me or any of the other subdivision officers.

Hopefully, we'll see everyone in San Francisco.



Kathryn Taylor-Pashow
SS&T Subdivision
Chair

2020 Actinide Separations Conference Rescheduled

Due to current events, the Actinide Separations Conference will not be held this year. The Actinide Separations Conference has been rescheduled for May 18-20, 2021. If you registered for the 2020 conference, your registration will be refunded in the full amount.

Industry Workshop at NSLS-II

The Workshop for Industrial Researchers, originally scheduled for May 2020, has been postponed to a later time this year. We look forward to seeing you then!

The purpose is to increase awareness of the capabilities available at NSLS-II for industry, as well as the removal of perceived barriers to using this technology by industry.

<https://www.bnl.gov/industryworkshop2020/>

A promotional poster for the 'Workshop for Industrial Researchers' at Brookhaven National Laboratory. The background is a blue-tinted image of a modern laboratory interior with glass walls and structural beams. The text is white and blue. The main title 'INDUSTRIAL RESEARCHERS' is in large, bold, blue letters. Below it, the text reads: 'Come and see how to advance your research with Brookhaven's world-leading facilities'. The date 'May 28, 2020' and location 'Brookhaven National Laboratory' are listed. A paragraph asks if the reader has an R&D challenge and offers expertise. Another paragraph describes access to unique x-ray, electron, and optical techniques. A note at the bottom asks for sample information. The Brookhaven National Laboratory logo is in the bottom right corner.

Workshop for
INDUSTRIAL RESEARCHERS
Come and see how to advance your research with Brookhaven's world-leading facilities

May 28, 2020
Brookhaven National Laboratory

Do you have an R&D challenge that you can't solve with traditional commercial techniques?

We have the expertise to address your R&D questions with unique capabilities offering exquisite sensitivity and resolution.

In this specialized workshop, we offer access to unique x-ray, electron and optical techniques, which are designed for understanding materials in unprecedented ways.

Let's work together to solve your R&D challenges!

www.bnl.gov/industryworkshop2020

Note: If you are interested in attending the workshop and would like to analyze a sample, please send an email to the workshop Experiments Committee for further details and coordination.

BROOKHAVEN
NATIONAL LABORATORY