



Division of Nuclear Chemistry and Technology
American Chemical Society

NUCL Webpage – <http://www.nucl-acs.org>

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NEWSLETTER

April 2020

Newsletter Editor: Andrew Klose

Email: andrew.klose@augie.edu

Topics

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FROM THE CHAIR

Tori Forbes

First and foremost, I hope that all the members of the NUCL division and their family members are safe and healthy amid this global pandemic. These are challenging times as we all navigate health concerns, social distancing, shelter-in-place orders, remote work, research laboratory shut-downs, virtual instruction, and home-schooling. During these times, it is nice to pause and remind ourselves that we are part of a larger scientific community and we are going through this together. I have always been impressed with the inclusiveness of the NUCL division and I see this sense of community more than ever as we navigate these uncharted waters together.

Typically, this is the newsletter where we highlight the events of the Spring National ACS Meeting, but the event was terminated this year due to concerns regarding the spread of the COVID-19 virus. We worked with the national ACS leadership to either cancel or reschedule the technical sessions from this meeting.

I want to thank the Programming Team (Glenn Fugate, Amy Hixon, John Auxier, Gian Surbella, and Tara Mastren) for their hard work in rescheduling events. There are additional details in the newsletter regarding the technical programming and the rescheduling of these sessions. If you have any questions about our changes in symposia or other issues with the national meeting, please feel free to contact me.

One important point: the symposium to honor our Seaborg Award recipient, Professor Sue Clark, will be rescheduled for the Fall 2020 National ACS meeting in San Francisco. We hope you will all be able to join us in celebrating Sue's achievements at this future event. The abstract deadline has been extended until April 20 for all technical sessions scheduled for the Fall meeting.

At this moment, the Fall ACS meeting is still scheduled to go on as planned. The National ACS leadership has taken steps to virtualize, postpone, or terminate large national and global meetings/events scheduled through June 2020. They will be sending out additional information regarding the scheduling revisions and you can also stay up-to-date on how ACS is responding to the event at the following website: <https://www.acs.org/content/acs/en/covid-19.html>.

Cancellation of the Spring meeting also meant we were not able to conduct the NUCL strategic planning workshop. We have also rescheduled this event for the Fall ACS meeting, and we hope to have a draft document completed at that point. This means we will be soliciting feedback from the NUCL members on the draft strategic plan during the fall 2020 and will vote on the final document at the Spring 2021 business meeting.

If you have any questions, comments, or concerns regarding rescheduling of NUCL or

ACS events, please feel free to reach out (tori-forbes@uiowa.edu). Again, hope that everyone continues to stay safe and healthy.

NATIONAL MEETING PROGRAMMING

FALL 2020 – San Francisco, CA

August 16-20, 2020

Theme: Chemistry from Bench to Market

The 260th ACS National Meeting & Exposition will be held August 16-20, 2020 in San Francisco, California. Abstracts for the following symposia are due April 20, 2020, and they can be submitted here: <https://callforpapers.acs.org/sanfrancisco2020/NUCL>. If you have questions, please contact John D. Auxier, II (jauxier@lanl.gov).

- **Seaborg Award Symposium in honor of Sue B. Clark**
Organizers: Janet Bryant (janetsbliss@hotmail.com), Amares Chatt (A.Chatt@dal.ca), Aurora Clark (auclark@wsu.edu), Nathalie Wall (nathalie.wall@ufl.edu)
- **Computational Methods in Actinide Chemistry**
Organizers: Deborah Penchoff (dpenchof@utk.edu), Charles C. Peterson (Charles.Peterson@unt.edu), and Theresa L. Windus (twindus@iastate.edu)
This symposium has been well attended in the past where it seeks to find the interface between benchtop chemistry and computational chemistry to promote predictive chemical methods that can be used to jointly improve our computational methods and also provide theoretical insights into the reactions that are observed in the lab.

- **General Topics in Nuclear and Radiochemistry**

Organizer: *Tori Forbes* (tori-forbes@uiowa.edu)

This is an excellent symposium for all things nuclear chemistry and an excellent place for student presentations. This is one of the longest running symposia in the nuclear division and often provides the most variety.

- **Solid State Material and Nuclear Fuels**

Organizers: *Sarah Finkeldei* (sfinkeld@uci.edu) and *Ashley Shields* (shieldsae@ornl.gov)

This symposium is focused on the advancements in materials science to support nuclear fuels both on the laboratory scale but also on the large scale efforts that are current in industry. This symposium has a strong focus on the ACS National Theme: Moving Chemistry from Bench to Market.

- **Heavy Element Chemistry Relevant to Nuclear Waste Disposal**

Organizers: *Thomas Albrecht-Schmitt* (talbrechtschmitt@fsu.edu), *David Hobart* (dhobart@fsu.edu), *Brian Powell* (bpowell@clemsun.edu), and *Hans Conrad Zur Loye* (zurloye@mailbox.sc.edu)

In addition to being within the theme of the meeting Moving Chemistry from Bench to Market, this symposium is organized to look into how the research from the heavy element community can be used to support an on-going scientific and technical area of nuclear waste.

- **Nuclear Forensics**

Organizers: *John Auxier* (jauxier@lanl.gov), *Jennifer Erchinger* (jerchinger@lanl.gov), and *Jeffery Rolfes* (Jeffery.rolfes@noblis.org)

This symposium will focus on the broad applications of nuclear forensics but with a new focus on detection with gamma-ray and neutron capabilities and the overlap of detection by traditional and advanced counting, with detection and laboratory radioanalytical methods. Note on this symposium is that all of the organizers are graduates of the 2009 San Jose Nuclear Summer School.

- **Radioisotope Production**

Organizers: *Kristian Myhre* (myhreckg@ornl.gov) and *Luke Sadergaski* (sadergaskilr@ornl.gov)

This symposium is also in the meeting theme Moving Chemistry from Bench to Market since it not only highlights the new radioisotopes that are on the horizon for therapy, but new and improved methods for production of well-known isotopes that are regularly used in industry today. This will represent large multi-disciplinary groups from chemistry, bio-chemistry, and chemical engineering. Not to be missed.

- **Macromolecular Actinide Chemistry**

Organizers: *Peter C. Burns* (pburns@nd.edu) and *Ginger E. Sigmon* (gsigmon@nd.edu)

SPRING 2021 – San Antonio, TX
March 21-25, 2021

Theme: Bonding Through Chemistry

The 261st ACS National Meeting & Exposition will be held March 21-25, 2021 in San Antonio, Texas. We are in the early planning stages for the Spring 2021 National Meeting. Symposia are listed below. We are looking for additional symposia topics and organizers. Please contact Tara Mastren to create or organize a session. (email: Tara.Mastren@utah.edu)

- **Radiotherapeutics: From Isotope Production to Targeted Delivery**

Organizers: Rebecca Abergel
(abergel@berkeley.edu), *Ethan Balkin*
(Ethan.Balkin@science.doe.gov), and
Stosh Kozimor (stosh@lanl.gov)

- **Young Investigators in Nuclear and Radiochemistry**

Organizers: Deborah Penchoff
(dpenchof@utk.edu) and *TBD*

- **Computational Methods for Lanthanides and Actinides**

Organizers: Deborah Penchoff
(dpenchof@utk.edu) and *TBD*

- **General Topics in Nuclear Chemistry and Technology**

Organizers needed

**NUCLEAR AND RADIOCHEMISTRY
SUMMER SCHOOL UPDATE**

Lynn C. Francesconi

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Due to the Coronavirus pandemic, the Nuclear and Radiochemistry Summer Schools (NCSS) will be run as an online course this summer, 2020. We realize that an online program will not have the same impact as the on-site program but given the unfortunate circumstances, we need to go online for

summer, 2020. The site directors and primary instructors, Annalise Van Wyngarden, Louis Pena and Trish Baisden are planning the program. Melody Esfandiari, a SJSU faculty, is helping to put the program online. We intend to generate interactive lectures and to engage the visiting lecturers as well. We plan to have online laboratories and are working out these details. We anticipate that we can maintain the intense, communicative experience for the students that is a hallmark of the program.

If you have any suggestions, comments, etc. please contact me.

**NATIONAL MEETING STRATEGIC
PROGRAMMING**

Glenn A. Fugate

I am working to establish a committee to develop a committee to suggest programming for future national meetings for the Division. The goal is to form a robust, inclusive committee and have them develop a three-year forecast of the programming for future national meetings.

There are several reasons to move to a three-year programming plan.

1. In recent memory, programming has fallen entirely on the shoulders of our Spring and Fall Programming Chairs. For anyone unfamiliar with the Programming Chair duties, they are very time consuming and require a lot of effort to handle abstracts and other scheduling concerns around a current meeting. The goal is to let these persons focus on execution of the pending meeting.

2. In an era of changing ACS policy, having a program plan allows for the Division to be more proactive in

working with other divisions to co-sponsor programming

3. The Division is having to adapt to changing meeting schedules and room restrictions that are coming from the ACS. Having an advance plan should allow us to navigate these issues more easily.

I have already solicited several members to join the committee and we will be working on our plan soon. Please contact me if you are interested in participating in the planning committee or if you have ideas for future symposium.

ACS COMMITTEE ON SCIENCE

Jenifer Shafer

Small Division Representative

The ACS Committee on Science held an abbreviated virtual congress courtesy the cancellation of the Spring National Meeting. The ACS Committee on Science has four subcommittees focusing on Science & Technology, Awards, Communications and Policy. I will be serving on the Policy subcommittee. One of the central tasks of the Policy subcommittee is developing [ACS Policy Statements](#) that provide guidance for our legislative and executive representatives in the Federal Government. Policy Statements are reviewed every three years for currency and general input. I will be taking point on reviewing the [Energy Policy](#) statement this year. I recognize this is an area of significant interest for many of our members and I encourage you to reach out to me with suggestions that you might have regarding the Policy Statement. The edits to the Policy Statement will be disseminated for discussion at the Fall ACS National Meeting. I will have a hard deadline for comments in the July 2020 newsletter.

AWARDS NOMINATIONS COMMITTEE OF NUCL

Thomas Albrecht-Schmitt

The Awards Nominations Committee is seeking nominations for the Frank Kinar Distinguished Service Award in Nuclear Chemistry. This award seeks to recognize individuals that have provided significant and sustained service to the NUCL division and nuclear sciences in the broadest sense. Please send nominations to the chair of the Awards Nominations Committee, Thomas Albrecht-Schmitt at albrecht-schmitt@chem.fsu.edu.

Call for Papers

Symposium on Heavy Element Chemistry Relevant to Nuclear Waste Disposal

Division of Nuclear Chemistry and Technology Symposium
American Chemical Society Fall National Meeting
"Moving Chemistry from Bench to Market"
San Francisco, CA August 16-20, 2020



The deadline for abstract submission is April 20th, 2020.

The symposium will cover all aspects of heavy element chemistry relevant to nuclear waste disposal issues, including solubility; complexation; speciation; separations; waste form matrices; migration in the far-field; radiolysis effects; geochemistry; etc.

Organizers:

Thomas E. Albrecht-Schmitt (talbrechtschmitt@fsu.edu)

Hanno zur Loye (zurloye@mailbox.sc.edu)

Brian Powell (bpowell@clemson.edu)

David E. Hobart (dhobart@fsu.edu)