



Division of Nuclear Chemistry and Technology  
*American Chemical Society*

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

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## NEWSLETTER

August 2023

*Newsletter Editor: Andrew Klose*  
*Email: [andrew.m.klose@gmail.com](mailto:andrew.m.klose@gmail.com)*

## Topics

- > FROM THE CHAIR
- > UPCOMING PROGRAMMING
- > AWARDS NOMINATIONS COMMITTEE
- > ANNOUNCEMENTS AND JOB OPENINGS

### FROM THE CHAIR

*Richard E. Wilson*

Happy Summer everyone! I will be brief as the meeting in San Francisco is just around the corner and as usual this should be an excellent meeting owing to the efforts of our programming committee and the volunteer from the division. Thank you!

One very important update on the business of the Division. Tyler Spano, ORNL, and Vanessa Sanders, BNL, are spearheading our division's Diversity, Equity, Inclusion and Belonging committee. This committee will report back to the executive committee prior to the Spring meeting in 2024. Please respond to their surveys, requests for information, feedback, and please consider assisting them in their endeavors. Their activities are focused on making our division more inclusive, welcoming, and responsive to the professional needs of our membership, and broadening our impact.

I hope that everyone is finding time to recharge a little this summer. I expect that the national meeting in San Francisco will be a success, and look forward to the excellent programming. As always, please consider volunteering your time to the Division in an area that interests you, whether it be in programming, outreach, or social media and communication. Our division functions best when we have an active and engaged membership.

Enjoy August!

## NATIONAL MEETING PROGRAMMING

**FALL 2023 – San Francisco, CA**  
**August 13 – 17**

*Theme: Harnessing the Power of Data*

The 266th ACS National Meeting & Exposition will be held August 13 - 17, 2023 in San Francisco, CA. Contact Fall Programming Chair Gian Surbella ([robert.surbella@pnnl.gov](mailto:robert.surbella@pnnl.gov)) with questions.

### **Advanced Materials and Strategies for Lanthanide and Actinide Separations (Invited)**

*Organizer: Amanda Carr ([carraj@anl.gov](mailto:carraj@anl.gov))*

### **Data Science and Artificial Intelligence Applications in Nuclear and Radiochemistry**

*Organizer: Deborah Penchoff ([dpenchof@utk.edu](mailto:dpenchof@utk.edu))*

### **Nuclear Forensics: The Measurements and Data**

*Organizers: Narek Gharibyan ([gharibyan1@llnl.gov](mailto:gharibyan1@llnl.gov)), Luther McDonald ([luther.mcdonald@utah.edu](mailto:luther.mcdonald@utah.edu)), Jennifer Shusterman ([shusterman1@llnl.gov](mailto:shusterman1@llnl.gov))*

### **Targetry for Nuclear Physics Measurements and Accelerator Applications**

*Organizers: Todd Bredeweg ([toddb@lanl.gov](mailto:toddb@lanl.gov)) and John Despotopulos ([despotop@unlv.nevada.edu](mailto:despotop@unlv.nevada.edu))*

### **Young Investigators in Nuclear and Radiochemistry**

*Organizer: Gian Surbella ([robert.surbella@pnnl.gov](mailto:robert.surbella@pnnl.gov))*

**SPRING 2024 – New Orleans, LA**  
**March 17-21**

*Theme: Many Flavors of Chemistry*

The 267th ACS National Meeting & Exposition will be held March 17 - 21, 2024 in New Orleans, La. Please contact Tara Mastren ([Tara.Mastren@utah.edu](mailto:Tara.Mastren@utah.edu)) for more information.

### **Panel Session/Contributed: Embracing Diversity in NUCL: The Many Flavors of LGBTQ+ Research in Nuclear Chemistry**

*Organizers: Tyler Spano ([spanotl@ornl.gov](mailto:spanotl@ornl.gov)), Brodie Barth ([bbarth@nd.edu](mailto:bbarth@nd.edu))*

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

*Organizers: Dustin Demoin ([Dustin.Demoin@ezag.com](mailto:Dustin.Demoin@ezag.com)) and Laetitia Delmau ([delmaulh@ornl.gov](mailto:delmaulh@ornl.gov))*

### **The Many Flavors of Radiochemical Separations**

*Organizers: Dustin Demoin ([Dustin.Demoin@ezag.com](mailto:Dustin.Demoin@ezag.com)) and Laetitia Delmau ([delmaulh@ornl.gov](mailto:delmaulh@ornl.gov))*

### **Computational Science Applications in Rare Earth Elements and Actinides**

*Organizers: Deborah Penchoff ([dpenchof@utk.edu](mailto:dpenchof@utk.edu)), Charles C. Peterson ([Charles.Peterson@unt.edu](mailto:Charles.Peterson@unt.edu)) and Theresa Windus ([twindus@iastate.edu](mailto:twindus@iastate.edu))*

### **Bridging Computational and Experimental Research in NUCL**

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

**The Many Flavors of  
Radiopharmaceutical Chemistry – from  
Academia to Industry**

*Organizers:*

*Ivis Chaple ([ichaple@utk.edu](mailto:ichaple@utk.edu)),*

*Suzanne Lapi ([lapi@uab.edu](mailto:lapi@uab.edu))*

*and Neil Vasdev ([neil.vasdev@utoronto.ca](mailto:neil.vasdev@utoronto.ca))*

**f-Element Reactivity at Interfaces**

*Organizers:*

*Juilia Neumann ([jneumann@anl.gov](mailto:jneumann@anl.gov))*

*Amanda J. Carr ([carraj@anl.gov](mailto:carraj@anl.gov))*

**AWARDS NOMINATIONS COMMITTEE  
OF NUCL**

*Thomas Albrecht-Schoenzart*

The Awards Nominations Committee of the Division was formed to encourage and facilitate nominations for national ACS awards. Please nominate a colleague for one of the awards given below or another ACS award (<https://www.acs.org/content/acs/en/funding-and-awards/awards/national.html>).

## ANNOUNCEMENT



### TICKLE COLLEGE OF ENGINEERING FACULTY POSITION AVAILABLE

The Tickle College of Engineering (TCE) at the University of Tennessee, Knoxville (UTK) is seeking applications to fill a faculty position at the Assistant, Associate, and/or Full Professor level in 2024. This initiative is part of an approved cluster hire to bolster UTK's strength in the development and use of radioisotopes in all related fields, such as but not limited to, radiochemistry, isotope production, and chemical modification of isotopes. Preference will be given to candidates with demonstrated research success in one or more of these areas with the vision to develop collaborative research activities, and are committed to high-quality undergraduate and graduate student education.

The radioisotopes cluster hire aligns well with the current initiatives at Oak Ridge National Laboratory (ORNL) and UT-Oak Ridge Innovation Institute (UT-ORII). At ORNL, \$158M has recently been appropriated to construct a Stable Isotope Production and Research Center as well as a Radioisotope Processing Facility to expand domestic production of critical isotopes vital to the mission of many federal agencies, such as NIH, NASA, DoD, ODNI, NIST, DHS, NNSA, NSF, and others. The selected candidate(s) will choose which TCE department they will join and partake in filling the remaining position(s). The long-term plan for hires within this cluster include 1) development of new radiochemistry labs, 2) development of enhanced radioisotope curriculum and establishment of a summer school in collaboration with partners at ORNL and UT-ORII, 3) expand partnerships with local hospitals, veterinary centers, and/or businesses with interests in isotope use and research, and 4) establishment of transformational campus-based research center(s).

Applicants must have a doctorate degree in a related field and relevant experience to be hired at the Assistant, Associate, or Full level. Applicants must be able to contribute to existing courses in the chosen TCE department, advise/train graduate students in the production and/or use of radioisotopes, provide service to the university and community, contribute to current research activities in radioisotopes, and develop new avenues of research and teaching. Applications should be submitted electronically at <https://apply.interfolio.com/125766>. Applications should include (1) a curriculum vitae, (2) a select subset of publications, (3) a research statement outlining previous and future directions, (4) a teaching and mentoring statement, (5) a letter articulating the applicant's interest in and qualifications for this position, and (6) the names of three to five references. A statement of how the applicant will support diversity and inclusion at UTK is not required but is highly recommended. Applications will be reviewed continuously, and the first position may be filled as early as January 2024. Any additional questions may be sent to Dr. Eric Lukosi (search committee chair) at [elukosi@utk.edu](mailto:elukosi@utk.edu).

The University of Tennessee Tickle College of Engineering has the fastest growing PhD program among the Top 40 public colleges of engineering and is ranked 32<sup>nd</sup> amongst public institutions in 2022. The departments of TCE are nationally recognized, with a US News ranking of 7 for nuclear engineering. The TCE recently opened a new \$129M building that house 27 new nuclear engineering laboratories, which includes a radiochemical teaching and research laboratory suite that will be available to the successful candidate(s). UTK has close collaborations with ORNL and Y-12 and is located close to the beautiful Smoky Mountains. The TCE is committed to cultivating work/life balance and a family-friendly work environment for faculty, staff, and students.

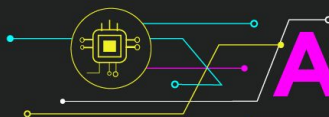
## ANNOUNCEMENT



DEPARTMENT OF NUCLEAR  
ENGINEERING

*All qualified applicants will receive equal consideration for employment and admission without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, genetic information, veteran status, and parental status, or any other characteristic protected by federal or state law. In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, the University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the university. Inquiries and charges of violation of Title VI (race, color, and national origin), Title IX (sex), Section 504 (disability), the ADA (disability), the Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Equity and Diversity, 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone 865-974-2498. Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Equity and Diversity.*





## PANEL

# DO I HAVE USEFUL SKILLS? HOW TO FIND YOUR FIT WITH THE JOB THAT IS ADVERTISED

During recent decades, nuclear and radiochemistry fields have suffered a workforce shortage. In this panel discussion, individuals involved in hiring for positions across academic and industry positions will share information about jobs that are offered and how to tell if you have the skills necessary to be successful in that position. There will be ample opportunity for attendees to ask questions of the panelists, and questions can be submitted ahead of time.

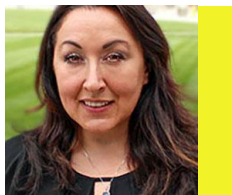
**August 14, 2023**  
**10:20 AM - Noon PDT**

**Hilton Parc 55**  
**Powell I/II (3<sup>rd</sup> Floor)**  
**& Available Online (Hybrid session)**

## PANELISTS



**Henry VanBrocklin, PhD**  
PROFESSOR  
Department of Radiology and Biomedical Imaging,  
University of California San Francisco



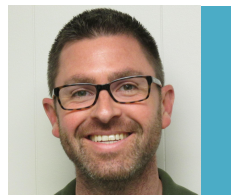
**Deborah Penchoff, PhD**  
ASSOCIATE DIRECTOR  
Innovative Computing  
Laboratory at the University of Tennessee



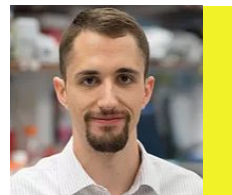
**June Slaton, PHR**  
SENIOR HUMAN RESOURCES ADMINISTRATOR  
Eckert & Ziegler Isotope Products - California



**Lea Nyiranshuti, PhD**  
SCIENTIST II,  
RADIOCHEMISTRY/  
CHEMISTRY  
RayzeBio - San Diego



**Dustin W. Demoin, PhD**  
DIRECTOR OF  
RADIOCHEMISTRY  
Eckert & Ziegler Isotope Products - California



**Brendon E. Cook, PhD**  
IMAGING BIOMARKERS  
SCIENTIST  
Biogen - Massachusetts



## MODERATOR

**Vanessa Sanders, PhD**  
ASSOCIATE SCIENTIST  
Medical Isotope Research and Production Group  
Collider-Accelerator Department  
Brookhaven National Lab



# ACS

**Fall 2023**  
*Harnessing the Power of Data*

ACS  
Chemistry for Life®  
AMERICAN CHEMICAL SOCIETY  
MEETINGS & EVENTS

## Panel: Interested in Internships, Postdoctoral Fellowships, or Career Jobs at National Laboratories?

**August 15, 2023**  
**10:40 AM - Noon PDT**

**Hilton Parc 55**  
**Powell I/II (3<sup>rd</sup> Floor) &**  
**Available Online**  
**(Hybrid session)**

Come learn more about actinide research opportunities at the National Laboratories. The five Seaborg Institute & Center directors will be hosting a session to talk about their particular research areas, and discuss job opportunities for students, postdocs, and career hires. Come and learn more about their research focus, specialized facilities, and career opportunities. The session will have ample time for audience members to ask questions.

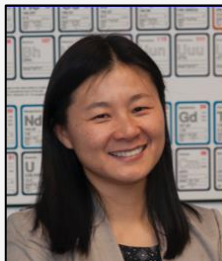
### PANELISTS



**Rory Kennedy, PhD**  
Director, GTSI  
Idaho National  
Laboratory  
<https://gtsi.inl.gov>



**Frankie White, PhD**  
Outreach  
Coordinator, GTSI  
Oakridge National  
Laboratory  
<https://gtsi.ornl.gov>



**Ping Yang, PhD**  
Deputy director, GTSI  
Los Alamos National  
Laboratory  
<http://seaborg.lanl.gov>



**Rebecca Abergel, PhD**  
Director GTSC  
Lawrence Berkeley  
National Laboratory  
<http://gtsc.lbl.gov>



**Mavrik Zavarin, PhD**  
Director, GTSI  
Lawrence Livermore  
National Laboratory  
<https://seaborg.llnl.gov>

### MODERATOR

**Annie Kersting, PhD**  
Visiting Scientist  
Lawrence Livermore  
National Laboratory

