



Division of Nuclear Chemistry and Technology
American Chemical Society

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

NEWSLETTER
July 2022

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FROM THE CHAIR

Nathalie Wall

Summer is here and offers an opportunity to slow down a bit. Well, there is always the hope to do so, at least.

Meanwhile, Fall national meeting is around the corner and we will have an exciting program this time again. While we have some traditional symposia, such as Young Investigators and General Topics, we are seeing newer topics around the subjects of AI and Careers at National Labs. The Spring meeting will take place in Indianapolis under the theme “Crossroads of Chemistry” and will offer interesting symposia as well; make sure you send you abstract on time.

The nuclear chemistry summer school is still in session as I write this piece and 24 students are being challenged at the Brookhaven and San Jose sites. We are grateful to the NCSS staff, the current program director—Lynn Francesconi—and the past directors for keeping this program active and well. On the related subject, we will celebrate the two last Kinard Award recipients, Dr. Mantica and Dr. Baisden during the Spring 23 meeting, for their efforts in keeping the NCSS in good health.

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DEBORAH PENCHOFF, 2021-2023

And speaking of Awards, I strongly encourage you to nominate yourself or your colleagues to the Awards Nomination Committee of the NUCL division. We have several awards to give out to both students (Coryell Award) and professionals (Seaborg Award, ACS Fellows, and ChemLuminary). Don't be shy!

And now, I am going to consider that slowing down business and see how that works.

Cheers!
NAW

LINKEDIN

Join the ACS NUCL Division LinkedIn Group to keep abreast of current Division information and job postings. The group can be found via the link below. Contact Deborah Penchoff (dpenchof@utk.edu) with questions.
<https://www.linkedin.com/groups/12060429/>

NATIONAL MEETING PROGRAMMING

FALL 2022 – Chicago, IL

August 21 - 25

Theme: Sustainability in a Changing World

The 264th ACS National Meeting & Exposition will be held August 21 - 25, 2022 in Chicago, IL and online. The abstract deadline has passed. Please contact Gian Surbella (robert.surbella@pnnl.gov) with questions.

- **Young Investigators in Nuclear and Radiochemistry**
Organizer: Jordan Stanberry
Presider: Vasileios Anagnostopoulos
- **General Topics in Nuclear Chemistry and Technology**
Organizer: Dominique Brager
Presider: Jordan A. Herder
- **Environmental Radiochemistry**
Organizers: Amy Hixon

(ahixon@nd.edu) and
Nicole DiBlasi (nicole.dibiasi@kit.edu)

- **Macromolecular, Supramolecular, and Solid-State Structural Chemistry of Actinides**
Organizers: Korey Carter
(korey-carter@uiowa.edu) and
Tori Forbes (tori-forbes@uiowa.edu)
- **Computational Methods of Lanthanides and Actinides**
Organizers: Theresa Windus,
(twindus@iastate.edu),
Deborah Penchoff (dpenchof@utk.edu),
and *Charles C. Peterson,*
(cpeterson@oarc.ucla.edu).
Cross-listed with: PHYS, COMP, and INOR
- **Artificial Intelligence Applications in Nuclear and Radiochemistry**
Organizers: Theresa Windus,
(twindus@iastate.edu),
Deborah Penchoff (dpenchof@utk.edu),
and *Charles C. Peterson,*
(cpeterson@oarc.ucla.edu).
Cross-listed with: PHYS, COMP, and INOR
- **Careers in NUCL at the National Labs**
Organizers: Amy Hixon
(ahixon@nd.edu) and *Ginger Sigmon*
(gsigmon@nd.edu).

SPRING 2023 – Indianapolis, IN

March 26 - 30

Theme: Crossroads of Chemistry

The 265th ACS National Meeting & Exposition will be held March 26 - 30, 2023 in Indianapolis, IN. We are looking for volunteers to organize symposia for this meeting. Please contact Tara Mastren (Tara.Mastren@utah.edu) with potential symposia topics or for more information.

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

Organizers: TBD

- **Facilitating Advances in Nuclear and Radiochemistry through Computational Science**

Organizers:

Deborah Penchoff (dpenchof@utk.edu),

Charles Peterson

(cpeterson@oarc.ucla.edu),

Ashley Shields (shieldsae@ornl.gov),

and Sarah Finkeldei

(sfinkeld@uci.edu)

- **Frank Kinard Awards**

Organizers: Nathalie Wall

- **Nuclear Forensics**

Organizers:

Amy Hixon (Amy.Hixon.2@nd.edu),

Tyler Spano (spanotl@ornl.gov),

Meena Said (said1@llnl.gov)

- **Radiochemical Separations**

Organizers: Dustin Demoin

(Dustin.Demoin@ezag.com)

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

Organizers:

Deborah Penchoff (dpenchof@utk.edu),

Charles C. Peterson

(Charles.Peterson@unt.edu) and

Theresa Windus (twindus@iastate.edu)

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. If you are interested in proposing symposia for this meeting, please contact Gian Surbella via email at

robert.surbella@pnnl.gov by the end of September, 2022.

NUCLEAR CHEMISTRY SUMMER SCHOOL

Lynn Francesconi

The Nuclear Chemistry Summer School (NCSS) is in progress in its 38th year (June 13, 2022 – July 22, 2022). This year the NCSS is running on site after two years of virtual program. As in past years, 12 students are located at San Jose State University (SJSU), the west coast site and 12 students are located at Brookhaven National Laboratory (BNL), the east coast site. Moving to the on-site program certainly enhances the student experiences. For both sites, the students receive lectures in the mornings on fundamentals of nuclear chemistry and radiochemistry and in the afternoons, students participate in laboratories and guest lectures. Field trips to national laboratories and other institutions emphasizing nuclear chemistry and radiochemistry demonstrate the exciting applications. The guest lecture series, a hallmark of the program, is inspirational and allows students to meet scientists in the field.

We are grateful to the NCSS staff for organizing the lectures, laboratories, guest lectures, and field trips, and student presentations. The organizers are, for the BNL site, Melissa Deri, Vanessa Sanders, and Cathy Cutler. For the SJSU site, the organizers are Jeff Bryan, Trish Baisden, Hank Bechtel, Annalise Van Wyngarden, Melody Esfandiari, Victor Maraschin, and Nick Esker. Teaching Assistants for BNL are Rebecca Collins and Nicholas Wakefield and for SJSU are Johnathan Phillips and Jason Victor.

We anticipate that we will be soliciting applications for 2023 in November, 2022 for a February 1, 2023 deadline.

We are extremely grateful to the Department of Energy, Office of Science, Heavy Element Chemistry, and the Isotope Program for funding and for their unwavering support of the NCSS.

FRANK KINARD AWARD RECIPIENT

Thomas Albrecht-Schoenzart

On behalf of the Awards Nomination Committee of the NUCL division, it is my pleasure to announce that Prof. Paul Mantica is the 2022 recipient of the Frank Kinard Award for Distinguished Service to the Nuclear Division of the ACS. Paul is a University Distinguished Professor at Michigan State University on leave and serving as Technical Advisor at the US Department of Energy's Office of Nuclear Physics. A symposium will be held at the spring 2023 ACS meeting to honor Paul's contributions to nuclear chemistry as well as the other Kinard Award recipients that helped keep the Nuclear Chemistry Summer School running since Frank's passing. Please join me in congratulating Paul.

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>).

Charles D. Coryell Award

Any undergraduate who has been actively doing research in the nuclear chemistry field in the previous year is eligible for consideration of the Charles D. Coryell award. To nominate a student for this award (which

includes a certificate and a \$1000 check), please submit a sample of the student's work (in the form of a written report or a publication), together with a nomination letter from the research mentor that describes the extent and the nature of the student's involvement in the research. The nomination deadline is by June 1, 2023, and all application materials should be emailed to Thomas Albrecht-Schoenzart (talbrechtschoenzart@gmail.com).

JOB OPENINGS

POSTDOCTORAL OPENING AT SAVANNAH RIVER NATIONAL LAB

The Nuclear Measurements Group at Savannah River National Lab is interested in hiring multiple postdoctoral research associates with nuclear science/engineering backgrounds. This group performs R&D within two broad areas, Radiochemistry/Radioanalytical work and Nondestructive Assay (NDA). At this time, we have a particular interest in candidates for our NDA team, but the division between the groups is informal and many researchers regularly cross back and forth. More information and the job posting can be found [here](#). Contact Chris McGrath at christopher.mcgrath@srnl.doe.gov with any questions.

NUCLEAR SCIENTIST/ENGINEER OPENING AT BOOZ ALLEN HAMILTON

Booz Allen Hamilton is hiring a Nuclear Scientist/Engineer that will support clients across the life cycle of nuclear engineering Research and Development (R&D) programs as a nuclear engineering technical Science, Engineering, and Technology Adviser (SETA). More information and the job posting can be found [here](#).



The City University of New York

The Department of Chemistry at HUNTER COLLEGE OF THE CITY UNIVERSITY OF NEW YORK (CUNY) anticipates the imminent search for a tenure track faculty position in Radiochemistry at the Assistant, Associate, or Professor rank to start in Fall, 2023. The area of radiochemistry is flexible. A Ph.D. (or equivalent) degree in Chemistry, or an appropriate discipline, and strong research program is essential. Postdoctoral research experience is a plus. Candidates should have an outstanding record of scholarly publications commensurate with their career trajectory. The potential to obtain external funding is necessary for junior rank and a history of such funding is required for more senior candidates. Please contact Professor Lynn C. Francesconi, Lfrances@hunter.cuny.edu for more information.

Sales Engineer – Isotrak (Atlanta, GA)

Company Benefits

- 100% employer paid medical and dental coverage
- 401(k) matching contribution
- Generous PTO and paid holidays
- Short-term and long-term disability
- Life and AD&D
- Health Care and Dependent Care Flex Spending
- Tuition reimbursement
- Profit-sharing program

Company Overview

Contributing to Saving Lives

Eckert & Ziegler Analytics, a subsidiary of Eckert & Ziegler AG, is one of the world's largest manufacturer of isotope technology for medical, scientific, and industrial use. Based in Atlanta, the customer service and sales group provides nuclear power, government, university and commercial laboratories with reference and calibration standards, sources, and proficiency tests to support quality measurements traceable to national standards.

The Job

Eckert & Ziegler Analytics seeks a **Sales Engineer - Isotrak**. This position qualifies non-price list leads and develops proposals for the Isotrak™ line of reference and calibration sources, and proficiency test materials. Coordinating with the reporting manager, this position will solidify specifications of new products and variations of existing products through engagement with production, quality, and technical groups. As products are manufactured at the Atlanta, California and German facilities, familiarity of each location's capabilities is essential to select the best option for the customer. Position shall be knowledgeable of the ISO 9001, ISO 17025 and ISO 17043 standard requirements and ensure departmental responsibilities to the standards are met. This position will maintain web, catalog, and literature content for new and existing products.

Duties:

- Develop proposals for non-standard Isotrak References and Calibration Sources.
- Update content in websites, catalogs and other literature with new product offerings and changes to existing products.
- Take part in industry exhibits and trade shows.
- Occasional travel (up to 10%) to customer sites for sales and technical discussions.
- Provide surge capacity to quote standard products as directed.
- Familiarity with all Isotrak catalogs and products including the product codes, descriptions, and source applications.

- Follow all written procedures related to job performance.
- Knowledge of the ISO 9001, ISO 17025, and ISO 17043 standard requirements, and ensures respective departmental responsibilities to the standards are met.

Requirements:

- **Minimum education (or substitute experience) required:** A 4-year college degree in a physical science or engineering or equivalent experience working in the nuclear industry. An advanced degree a plus.
- **Minimum experience required:** At least three years of experience operating or marketing nuclear measurement equipment.
- **Abilities and skills required:**
 - Communicate professionally with customers including identifying and fulfilling their needs and resolving any issues.
 - Communicate effectively with peers and management. Proven flexibility and ability to work as part of a small but busy team.
 - Ability and experience in selecting or identifying the correct technical product.
 - Ability to work under strict regulatory controls and attention to detail a must.
 - Skilled at unit conversion (i.e., 1000 ml = 1 l, 37 Bq = 1 nCi)
 - Inquisitive with strong reasoning skills, enjoys learning and teaching.
 - Experience using WordPress or similar web content management system. Proficient in software programs including Excel and Word. Knowledge in other programs such as Microsoft Dynamics 365 or other enterprise software a plus.

We are an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, or protected veteran status and will not be discriminated against on the basis of disability.

To apply please click on the link below or copy and paste into your browser.

https://workforcenow.adp.com/mascsr/default/mdf/recruitment/recruitment.html?cid=9c980abd-e7ad-4b5f-9517-39477f587807&ccld=19000101_000001&jobId=447987&source=CC2&lang=en_US

Alternatively, you can use the QR code to access the application.

QR Code – Use your camera to scan the QR code and you can apply from your phone.





Dear Colleagues, Friends, Sponsors, and Exhibitors,

On behalf of the Organizing Committee, it is my pleasure to invite you to attend the 2023 Southeast Regional Meeting of the American Chemical Society (SERMACS) to be hosted by the North Carolina Section of the American Chemical Society. The conference will be in Durham, NC from October 25-28, 2023 and will feature a vibrant, diverse program featuring researchers from all disciplines of chemistry and a theme of “Chemistry Con – A Confluence of Innovation, Creativity, and Chemistry”. This fully in-person conference will provide a welcome opportunity to network and grow together while we reinvigorate science.

Returning to the Research Triangle Park region for the first time since 2012, SERMACS 2023 will be held at the Durham Convention Center and adjoining Durham Arts Council. The venue is in the heart of the Research Triangle Park, a national hub of scientific research and innovation that brings together researchers from all areas and every sector of industry, academia, and government. The conference venue is also convenient to the Raleigh-Durham-Chapel Hill area, which boasts a range of nationally recognized attractions and sports teams, shopping, and one of the most exciting and varied dining scenes in the Southern United States.

This exciting conference will highlight all the creativity, diversity, and technical innovation that this region brings to the ACS and the broader chemical community. We are planning a full program with oral and poster presentations, specialized symposia, and professional development opportunities including a full slate of pre-conference workshops and networking events leveraging the broader Raleigh-Durham community. The conference will also feature chemistry education workshops, programming aimed at undergraduate and high school students and educators. SERMACS 2023 will also be held in conjunction with the Southeast Magnetic Resonance Conference, drawing on these complementary professional communities.

We’re looking forward to seeing all of you at the 2023 SERMACS in Durham, NC! Keep an eye on <http://www.sermacs2023.org/> and follow us on Twitter (@sermacs2023) for updates including upcoming calls for symposia and abstracts.

Sincerely,

Katherine Glasgow

Chair, Sermacs 2023

kglasgow@vertellus.com