



Division of Nuclear Chemistry and Technology
American Chemical Society

NUCL WWW Home Page – <http://www.nucl-acs.org>

NEWSLETTER
July 2015

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Topics

- > FROM THE CHAIR
- > NUCL MEMBER HIGHLIGHT
- > TREASURERS REPORT
- > UPCOMING PROGRAMMING
- > NOTICE OF VACANCY FOR THE DIRECTOR OF THE
NUCLEAR CHEMISTRY SUMMER SCHOOL
- > AWARD NOMINATIONS COMMITTEE OF NUCL

FROM THE CHAIR – *Dave Hobart*

The NUCL membership drive was a great success as reflected by the May Roster listing of 1,002 members, up from about 960 in January. This reflects a healthy resurgence of interest in nuclear and radiochemistry and it has allowed our Division to participate at a new level within the ACS – with more representation on the governing council and more funds available for Divisional activities. Shortly after the Denver ACS National meeting, NUCL Division organizers were busy arranging for the upcoming Boston National Meeting in August and the San Diego National meeting in April 2016. The 2015 Fall National ACS meeting for August 16-20, 2015 has the theme, “Innovation from Discovery to Application.” The NUCL symposium will be located at the Seaport World Trade Center near the Boston Convention Center. The NUCL 50th Anniversary celebration will continue in Boston with the following symposia: Analytical Chemistry in Nuclear Technology; General Topics in Nuclear and Radiochemistry; and Transformation and Transport of Radionuclides in the Environment.

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SILVIA JURISSON, 2014-2016

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Alternate Councilor

DAWN A. SHAUGHNESSY, 2015-2017

Members-at-Large, Executive Committee

SUZANNE LAPI, 2015-2017

RICHARD ROBERTS, 2013-2015

NUCL is also co-sponsoring the Division of Industrial & Engineering Chemistry Fellow Symposium in Honor of Kenneth L. Nash. The Program Chair for the Boston meeting is Jeff Terry (terryj@iit.edu). The Final Program for the Boston meeting can be found at:



<http://www.acs.org/content/acs/en/meetings/fall-2015.html>. The lapel pins dedicated to the NUCL 50th Anniversary were received shortly after the Denver meeting (see photo). Distribution of the pins will continue at the Boston meeting with one to a member.

The 2016 Spring National ACS meeting will be held in San Diego, California, March 13-17 with the theme, "Computers in Chemistry". The Program Chair for the San Diego meeting is Amy Hixon (amy.hixon.2@nd.edu). The symposium will include: Symposium in Honor of Richard Martin - Tackling the Challenging Electronic Structure of Actinides; Young Investigators in Nuclear & Radiochemistry; Heavy Element Inorganic Chemistry – Tribute to Al Sattelberger; and General Topics in Nuclear and Radiochemistry. The Call for Papers for the San Diego Meeting will be announced shortly in *Chemical and Engineering News*. The Fall National ACS meeting will be in Philadelphia, PA with the theme, "Chemistry of the People, by the People and for the People." Please contact Paul Benny, NUCL Chair-Elect (bennyp@wsu.edu) or Amy Hixon if you are interested in organizing a symposium for this meeting.

Additional Meeting Announcements

The 2015 ACS Combined Southeastern/Southwestern Regional (SERMACS/SWRM) meeting will be in Memphis, TN November 4-7 at the Sheraton

Memphis Downtown. <http://sermacs.org/meetings/index.html>. The Midwest Regional (MWRM) will be held October 21-24 in St. Joseph, MO.

The 2015 International Congress of Pacific Basin Societies (PACIFICHEM) will take place in Honolulu, Hawaii December 15-20, 2015. The program for the congress is available at:

www.pacificchem.org/symposiadesc2015/

Registration is currently open and will close October 15. Bursaries are available for students attending radiochemistry-related symposia. Please see the attached flyer at the end of the newsletter for more information.

The Plutonium Futures conference will be held in Baden-Baden, Germany, September 18-22, 2016. This conference is one in a series of conferences which aim to provide an international forum for the presentation and discussion of current research on the physical and chemical properties and environmental interactions of plutonium and closely-related actinide elements. The conference is co-sponsored by the European Commission (EU), the Commissariat à l'Energie Atomique et aux Energies (CEA), France and the Atomic Weapons Establishment (AWE), United Kingdom. For more information please visit: <http://www.pufutures2016.eu/>

Nuclear Science Advisory Committee (NSAC) Updates

I will be attending the NSAC scheduled to meet July 16th in Bethesda, MD. NSAC will be asked to vote on accepting the final draft of the "2015 Long Range Plan: Isotopes for the Nation's Future." Several NUCL members are participating on this subcommittee, including Suzanne Lapi, Dave Robertson, Mark Stoyer, and Scott Wilbur. The Subcommittee Chair is Larry Cardman (cardman@jlab.org). The draft was submitted

by the NSAC Isotope Subcommittee representing a broad range of members from the research, industrial and homeland security communities. The Subcommittee heard presentations and/or received written input from a large number of federal institutions, professional societies, industry trade groups and individual experts. The Subcommittee was asked: to identify and prioritize compelling research opportunities using isotopes; to study opportunities and priorities for ensuring a robust national program in isotope production and development; and to recommend a long-term strategic plan.

At the April 2015 meeting NSAC was presented with new charges on Molybdenum-99 and Neutrinoless Double Beta Decay. Additionally, there were presentations of the results of the NSAC Isotope committee and Electron-Ion Collider (EIC) costing committee. The NSAC committee also discussed the Long Range Plan (LRP). Paul Mantica represented the NUCL division on the LRP writing group, and had responsibility for leading the chapter on Broader Impacts. The plan is for the LRP Writing Group to submit the final LRP document by October 2015. Updates on the LRP process will be provided on the American Physical Society's Division of Nuclear Physics website: www.aps.org/units/dnp/.

Volunteers Needed

The Division has many opportunities for members to serve on NUCL committees. These include some positions described in the Division Strategic Plan and on additional committees. If you are interested in learning more about ACS governance and playing an active role in your division this is an excellent way to expand your network and raise awareness on issues important to

NUCL members. Thank you to the volunteers who stepped up at the Denver meeting to assist with the Newsletter and the web page. Please contact Dave Hobart (dhobart15@gmail.com) or Chair-Elect Paul Benny (bennyp@wsu.edu) to volunteer.

ACS Fellows

Congratulations to NUCL Division member Alice Mignerey of the University of Maryland for being recognized as a 2015 ACS Fellow!

NUCL MEMBER HIGHLIGHT – *Alison Tamasi (editor)*



The member highlighted in this edition of the NUCL newsletter is Prof. Amy Hixon from the University of Notre Dame.

Amy got her first taste of nuclear science while working on her bachelor's in chemistry at Radford University - by taking a class on nuclear energy and then attending the Nuclear and Radiochemistry Summer School at Brookhaven National Laboratory. She continued by specializing in environmental radiochemistry and nuclear forensics while attending Clemson University for both her MS and PhD. She was hired right after graduation into a tenure-track assistant professorship at the University of Notre Dame. Amy now does research on the back-end of the nuclear fuel cycle. One of her most exciting projects involves the synthesis of homogeneous melt glass that simulates an urban matrix for use as a nuclear forensics standard. When she is not immersed in the hunt for nuclear forensics signatures and standards or puzzling out the environmental interactions of transuranics and mineral

phases, Amy enjoys spending quality time with her husband and 4-year-old daughter.

TREASURERS REPORT – Alice Murray

The NUCL Division currently has with \$80,651 in its checking account and \$76,931 in its savings account. To date in 2015, the NUCL Division has received \$14,911 from the ACS as its allotment and \$8,825 for the July-December 2014 dues. The Spring Meeting Expenses were \$9,011.92. The 50th NUCL Division Anniversary and Heavy Element Symposia received \$20,000 in support from the Argonne National Laboratory and the Los Alamos National Laboratory. That support was used to cover \$16,143 costs of registration and travel for speakers. The Seaborg Award Symposium Honoring Heino Nitsche was able to support \$11,559 costs of travel and registration of speakers as well as breaks during the symposium and the symposium dinner. The NUCL Division has also provided \$750 to the ACS Northwest Regional Meeting with another \$750 available for select costs as approved.

UPCOMING PROGRAMMING - Dave Hobart, Jeff Terry, Amy Hixon

Fall 2015 – Boston, MA – August 16-20, 2015. A History of Innovation: From Discovery to Application (Jeff Terry)

General Topics in Nuclear & Radiochemistry (Jenifer Braley, CSM, jbraley@mines.edu)

Analytical Chemistry in Nuclear Technology (Charles Coleman, SRNL, charles02.coleman@srnl.doe.gov; David Hobbs, SRNL, David.Hobbs@srnl.doe.gov; Herman Cho, PNNL, HM.Cho@PNL.gov; Dominic Peterson, LANL, dominicp@lanl.gov)

Transformation and Transport of Radionuclides in the Environment (Maxim Boyanov, ANL, mboyanov@anl.gov; Ken Kemner, ANL, kemner@anl.gov; Edward O'Loughlin, ANL, OLoughlin@anl.gov)

Co-sponsored with I&EC Division: Fellows Symposium in Honor of Kenneth Nash (Sue Clark, Washington State University, s_clark@wsu.edu)

Co-sponsored with FLUO and MEDI Divisions: Radiochemistry (Alan Packard Boston Children's Hospital, Alan.Packard@childrens.harvard.edu; Gilles Tamagnan, Yale, gilles.tamagnan@yale.edu; Neil Vasdev, Harvard Medical School, vasdev.neil@mgh.harvard.edu)

Spring 2016 – San Diego, CA – March 13 - 17, 2016 (Amy Hixon)

General Topics in Nuclear & Radiochemistry

Symposium in Honor of Richard Martin - Tackling the Challenging Electronic Structure of Actinides

Young Investigators in Nuclear & Radiochemistry

Heavy Element Inorganic Chemistry – Tribute to Al Sattelberger

Fall 2016 – Philadelphia, PA – August 21 – 25, 2016

The call for symposia papers will be submitted no later than December 1, 2015.

Spring 2017 – San Francisco, CA - April 2 – 6, 2017

The call for symposia papers will be in July 2016.

NOTICE OF VACANCY FOR THE DIRECTOR OF THE NUCLEAR CHEMISTRY SUMMER SCHOOL

The NUCL division is seeking applications for the **Director** of the **Nuclear Chemistry Summer School**. The summer school has been a long-standing program to help introduce the concepts radio and nuclear chemistry to undergraduate students in a 6 week summer program. This program has been instrumental in helping train the next generation of scientists in nuclear science. The **Director** will be responsible for the preparation and submission of the grant requesting funding for the continuation of the summer school in Fall 2015. During the term of the grant, the Director will be responsible for advertising the program, recruiting students, and selecting students for the program; arranging the travel for the students; supervising the overall performance of the two sites; and managing the financial aspects of the summer school grant. To apply for the position, please send your CV and a 1 page plan for the grant renewal submission to the search committee chair (Paul Benny at bennyp@wsu.edu) by August 10, 2015. The committee will be conducting interviews, either in person or via phone, at the Boston ACS meeting.

AWARD NOMINATIONS COMMITTEE OF NUCL – *Steve Yates*

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

(<http://www.acs.org/content/acs/en/funding-and-awards/awards/national.html>).

Glenn T. Seaborg Award for Nuclear Chemistry

(<http://www.acs.org/content/acs/en/funding-and-awards/awards/national/bytopic/glenn-t-seaborg-award-for-nuclear-chemistry.html>) -- Nominations are initiated by individuals and the procedures are given on the ACS website. The next deadline is **November 1, 2015**.

ACS Fellows

(<http://www.acs.org/content/acs/en/funding-and-awards/fellows.html>) -- Nominations can be initiated by individuals; however, the Division can nominate up to four individuals as ACS Fellows annually. Nominations for the 2016 class of Fellows are scheduled to **open February 1, 2016** and **close April 1, 2016**.

W. Frank Kinard Distinguished Service Award, established in 2014, recognizes NUCL members for outstanding service to the Division and the field of nuclear science -- Nomination procedures are given on the NUCL website (http://www.nucl.acs.org/?page_id=611) and the next deadline is **July 1, 2016**.

Suggestions and questions should be addressed to Steve Yates (yates@uky.edu; 859-257-4005).

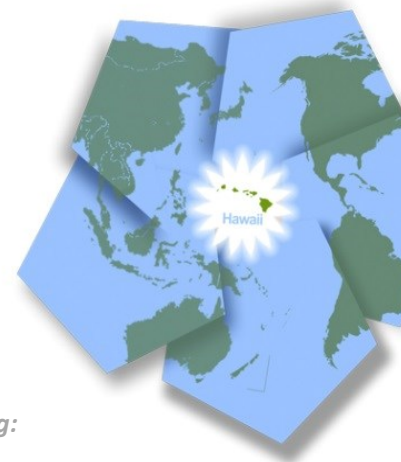
WWW.PACIFICHEM.ORG

Pacificchem 2015

January 1 –April 3 | Call for Abstracts

February 2 | Housing Opens

June 25 | Early Registration



Chemical Networking:

Building Bridges Across the Pacific

Student Bursaries Available for Attending Radiochemistry-Related Symposia

Financial Assistance: Funds have become available from the DOE Office of Science to help offset costs for students/trainees to attend selected radiochemistry-related symposia at Pacificchem 2015. Those symposia are: **#363, Isotope production-Providing Important Materials for Research and Applications; #215, Chemistry of Molecular Imaging, and #11, Chemistry for Development of Theranostic Radiopharmaceuticals.** The funds will be provided as bursaries of \$1000 per student award. The bursaries will be distributed to awardees after submission of copies of expense receipts from the meeting.

Eligibility: Financial assistance is available to those who are undergraduate students, graduate students or Postdoctoral Fellows during the time of the Pacificchem 2015 meeting. Preference will be given to students/trainees from US institutions.

Requirements: Applicants must provide: (1) a resume or curriculum vitae, (2) a letter from your supervisor indicating your status as a student or Postdoctoral Fellow at the time of the meeting, and that you will be able to attend the meeting if given the award, and (3) a brief statement of why you want to attend the symposia and how the bursary will help you attend.

Send Applications To: (mail) Pacificchem 2015 Bursary Committee; c/o Prof. D. Scott Wilbur, Department of Radiation Oncology, Box 355016, University of Washington, Seattle, WA 98105; or (email) dswilbur@uw.edu

Applications should be received no later than September 1, 2015

For additional information please contact: D. Scott Wilbur, dswilbur@uw.edu



THE INTERNATIONAL CHEMICAL CONGRESS OF
PACIFIC BASIN SOCIETIES

Honolulu, Hawaii, USA • DECEMBER 15-20, 2015

