



Division of Nuclear Chemistry and Technology
American Chemical Society

NUCL WWW Home Page – <http://www.cofc.edu/~nuclear>

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NEWSLETTER

January 2013

Newsletter Editor: Lætitia Delmau

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FROM THE CHAIR – *Bob Rundberg*

Happy New Year greetings to all the members of the Nuclear Chemistry Division.

There will be a Strategic Planning executive meeting at the Spring ACS National meeting in New Orleans. If any of the members of the Nuclear Division have thoughts on things that could be done to grow and improve the Nuclear Division please send suggestions to me or any member of the NUCL executive committee.

FROM THE PAST CHAIR– *Ken Nash*

Greetings All! Hard to imagine that another year is in the books. Last year it was my turn to be Chair of the Division – this year I am looking forward to the fresh challenges of being the Past Chair (I like the sound of that). I wish Bob Rundberg well in guiding our “ship of state” through 2013.

If I read the job description correctly, a principal responsibility of the Past Chair is identifying candidates willing to stand for election. Based on the present terms of office for current officers,

it appears that we will be searching for candidates willing to be considered as Treasurer, Secretary, Councilor and the Chair sequence (Chair in 2016). I will be contacting present office holders to assess their willingness to continue to serve. Volunteers would be most appreciated, otherwise I'll have to track you down...

The second duty for the Past Chair is to focus on advancing the fiscal and scientific health of the Seaborg Award. To stabilize the fiscal situation, we have taken what we believe are the necessary steps to secure the status of the Award as a national award for the next several years. The current plan includes NUCL as the sole sponsor of the award. The membership has responded positively to this structure as something of a matter of pride. The annual \$10,000 expense of the award is borne by the NUCL Division and is manageable with our current fiscal condition and the award cost structure. However, the financial security of the award would be much improved if we can identify willing external sponsors. Any and all suggestions for possible corporate sponsorships or charitable foundations that might be approached would be most welcome. Some volunteers have offered to assist with fundraising – more would be welcome. It is conceivable that we could identify corporations or individuals willing to join NUCL in cosponsoring the award. Elsewhere in this newsletter is a brief note reminding everyone of the “joy of giving”.

The other matter that I understand more fully following my year as Chair is the dynamic of making a nomination for this award. It is perhaps not widely understood that any member can nominate a deserving candidate for ACS National Awards. To ensure that deserving candidates are nominated in sufficient numbers, I again solicit your help with the suggestions of the names of candidates. I will even go so far as to offer aid, comfort and advice (for free) to

any member willing to bring forward viable candidates. If I remember correctly, nominations are due November 1, so we have some time.

NUCL IN NEW ORLEANS – LET’S GET TOGETHER!

We have just received (on Friday) confirmation of the scheduling for the meetings and technical sessions for New Orleans, as follows:

Sunday-Thursday, April 07-11, 2013 Technical Sessions Hampton Inn Convention Center

Sunday, April 07, 2013

**6:00 PM - 9:00 PM NUCL Executive Committee Meeting
Hampton Inn Convention Center
Reserved: 5:00 PM - 9:30 PM**

Monday, April 08, 2013

**6:00 PM - 7:00 PM NUCL Business Meeting
Hampton Inn Convention Center
Reserved: 5:00 PM - 7:30 PM**

Monday, April 08, 2013

**7:00 PM - 9:00 PM NUCL Social Hour
Reserved: 6:00 PM - 9:30 PM**

SEABORG AWARD- *Mike Bronikowski*

Just a small note, tax time is coming soon. Use the “Contribute to Seaborg Award” button on our division page and make a tax deductible donation via credit card. Just remember to write in “Seaborg Award”.

The award could use the funds. Interim funding is in place since the last meeting but the Seaborg award will need continued funding unless it is endowed (\$450,000). The awards funding committee would like to raise

\$100,000. So if you would like to help or you think your corporation would like to donate to (or potentially sponsor) the award get in touch with Ken, Mike, or Alice.

ELECTION RESULTS – *Frank Kinard*

The results of the 2013 NUCL election are as follows:

Dave Hobart (LANL-Ret.) was elected as Vice-Chair Elect (Chair 2015) and Richard Roberts (Covidien) was elected as Member-at-Large Executive Committee. The Division saved nearly \$1,500 by doing a secure electronic balloting. Only about 50 members of the Division list no email address so they were sent paper ballots. Membership participation was just up slightly from the snail mail ballots with about 13.5% of the Division's 1026 members voting.

UPCOMING PROGRAMMING - *Jenifer Braley*

Courtesy of the efforts of some wonderful organizers, and possibly the help of an enjoyable site, the New Orleans meeting received 228 abstract submissions. This represents the largest number of contributions to the NUCL division since at least 2004 (PACS and OASYS only track submissions from 2004 onward). Programming for New Orleans is stacked from Sunday morning to Thursday Afternoon. I encourage you to account for this in your travel for the meeting. Bob Rundberg (Chair, 2013), Paul Mantica (Chair, 2014) and other helpful parties have been key in developing programming for the Fall 2013 meeting in Indianapolis and the 2014 meetings. One more symposium could possibly be squeezed into the Dallas 2014 meeting. If you have interest in programming further out, ample room exists for the 2015 Spring (Denver) and Fall (Boston) meetings. The theme for the Denver

meeting, "Chemical Resources: Extraction, Refining and Conservation", could fit very well with some divisional interests. Thank you to all current and future organizers for their programming contributions.

Spring 2013 – New Orleans – Chemistry of Energy and Food (energy from food)

– Seaborg Award Symposium Honoring Richard G. Haire (Organizers: Chuck Alexander, John Gibson, and Lætitia Delmau)

– Analytical Chemistry in Nuclear Technology (Organizers: Charles Coleman, Dave Hobart and others)

– Nuclear Forensics (Organizers: Glenn Fugate and others) – (NUCL primary – co-sponsored with I&EC/SS&T)

– Radiochemistry and risk assessment of food and water contaminated with radionuclides (Organizers: Thomas Semkow, Chair, New York State Department of Health,

tms15@health.state.ny.us, 518-474-6071, Michael Arndt, Wisconsin State Laboratory of Hygiene, michael.arndt@slh.wisc.edu, 608-224-6227, Lynn West, Wisconsin State Laboratory of Hygiene,

lynn.west@slh.wisc.edu 608-224-6227,

William Cunningham, FDA Center for Food Safety and Nutrition,

William.Cunningham@fda.hhs.gov, 301-975-6271)

– General Topics in Nuclear and Radiochemistry (Organizers Ken Nash and Jenifer Braley)

– Isotope Production—Past, Present, and Future: A Symposium Honoring the Legacy of Michael J. Welch (Organizers Dennis Phillips, Suzy Lapi, Silvia Jurisson)

Fall 2013 – Indianapolis – Chemistry in Motion (transportation)

– Actinide Materials (Organizers Peter Burns, Ginger Sigmon)

– Young Investigators (Organizers: Suzy Lapi, Mikael Nilsson)

- Nuclear Reactions (Title TBD) (Organizers: Walt Loveland, other organizers welcome)
- General Topics in Nuclear and Radiochemistry (Organizers: Ken Nash and Jenifer Braley)
- Recent advances in the inorganic chemistry of technetium and rhenium (Organizers: Ken Czerwinski, Lynn Francesconi, Silvia Jurisson)

Spring 2014 – Dallas – *Chemistry of Power and Advanced Materials*

- Seaborg Award Symposium (Organizer: TBD)
- Global Status of Nuclear Energy (Organizer: Ken Nash, WSU, knash@wsu.edu)
- Symposium in Honor of Norman Edelstein: A Distinguished and Diverse Scientific Career in Actinide Chemistry (Organizers: David Shuh, LBNL, dkshuh@lbl.gov; David Clark, LANL, dlclark@lanl.gov; Lynda Soderholm, ANL, soderholm@anl.gov; Al Sattelberger, ANL, asattelberger@anl.gov)
- Novel Materials and Applications in Radiation Detection (Organizer: TBD)
 - Nuclear Batteries and Radioisotope Micropower Sources (Organizer: David Meier, PNNL, david.meier@pnnl.gov)

Fall 2014 – San Francisco – *Chemistry for a Sustainable World*

- Comprehensive Test Ban Treaty Verification (Organizer: Sean Liddick, MSU, liddick@nscl.msu.edu)
- High-Level Waste Storage (Organizer: Nathalie Wall, WSU, nawall@wsu.edu)
- Nuclear Fusion, from NIF to the Stars (Organizers: Mark Stoyer, LLNL, stoyer1@llnl.gov; Lee Bernstein, LLNL, laberstein@llnl.gov)
- Environmental Radiochemistry Symposium (Organizers: Don Reed, LANL, dreed@lanl.gov; Ralf Sudowe, UNLV,

- ralf.sudowe@unlv.edu; Brian Powell, Clemson, bpowell@clemson.edu)
- Young Investigators (Organizers: Cody Folden, TAMU, folden@comp.tamu.edu; Jeff Terry, IIT, terryj@iit.edu)
- General Topics in Nuclear Chemistry and Technology (Organizers: Paul Mantica, MSU, mantica@msu.edu; Jen Braley, CSM, jbraley@mines.edu)

If you are interested in any of the 2014 topics and would like to serve as a Symposium Co-Organizer, please contact Paul Mantica, 2014 NUCL Chair (mantica@msu.edu), or Jenifer Braley, NUCL Program Chair (jbraley@mines.edu)

Spring 2015 – Denver, CO – March 22-26, 2015 - *Chemical Resources: Extraction, Refining and Conservation*

- Seaborg Award Symposium (Organizer: TBD)

Fall 2015 – Boston, MA – August 16-20, 2015 - *A History of Innovation: From Discovery to Application*

- Young Investigators (Organizer: TBD)

If you are interested in organizing a symposium for 2015, please contact Dave Hobart, 2015 NUCL Chair (dhobart15@gmail.com), or Jenifer Braley, NUCL Program Chair (jbraley@mines.edu).

Several other concepts in development

Radiochemistry Infrastructure – cooperative with the Health Physics Society

Archaeometry (contact Dave Robertson)

SUMMER SCHOOL – *Dave Robertson*

The 2013 Nuclear Chemistry Summer Schools will be held June 17 through July 26. The announcement and application form for the 2013 program are at

<http://chemistry.missouri.edu/nucsummer/index.shtml>

The deadline for receiving all application materials is February 1. Please encourage students to apply.

A supplemental application for additional funding for the Summer Schools was submitted to the Department of Energy in November. The additional funds were needed to keep the number of participants in the program at 12 students per site. I am pleased to report that we received notification of the additional funds for the remaining 4 years of the 5-year grant.

We will recognize the outstanding students from the 2012 program, Justin Vadas (BNL) and John Gray (SJSU), at the NUCL Business Meeting in New Orleans.

Questions, comments, or concerns regarding the summer school program should be directed to:

Prof. J. David Robertson
National Director, ACS Nuclear and
Radiochemistry Summer Schools
University of Missouri
Columbia, MO 65211-7600
Phone 573-882-2240
robertsonjo@missouri.edu

TREASURER'S REPORT – *Alice Murray*

The NUCL Division closed 2012 with \$55,864 in its checking account and \$76,851 in its savings account. The 2012 Income was \$49,575 and the 2012 Expenses were \$76,438. There were two major expenses: \$26,633 of unspent funding for the Nuclear Summer School returned to the ACS and \$20,000 sent to the ACS Office of

Development for the Glenn T. Seaborg Award. The NUCL Division received \$32,762 from the ACS for its allotments, dues, and councilor travel. The NUCL Division is managing donations collected for the Lester Morss Symposium (\$9,000 received in 2012 and \$5,052 spent in 2012) as well as receiving donations for the Charles D. Coryell Award and for the Seaborg Award Symposium honoring Dick Haire at the 2013 Spring ACS National Meeting.

CORYELL AWARD – *Graham Peaslee*

If you have undergraduates engaged in research, please remember to nominate them for the Coryell Award in the Spring. The nomination deadline this year will be April 26 and the DNCT website will be updated with information about the award soon. Please contact Graham Peaslee if you have any questions.