



Division of Nuclear Chemistry and Technology
American Chemical Society

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

NEWSLETTER

April 2012

Newsletter Editor: Lætitia Delmau

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Topics

- > FROM THE CHAIR
- > SEABORG AWARD
- > UPCOMING PROGRAMMING
- > SUMMER SCHOOL
- > TREASURER'S REPORT
- > ACS REGIONAL MEETINGS
- > CORYELL AWARD
- > COUNCILORS' REPORT
- > JOB OPENING

FROM THE CHAIR – *Ken Nash*

Ah Spring! As we scrape away the reminders of a winter that was generally mild across the country, the prospect of tulips and leaves on the trees is certainly a welcome change to the damp gray skies of winter (at least here in the Pacific Northwest).

To preview the pleasant days of summer yet to come, this year's 243rd Spring National Meeting in San Diego was a pleasure. The NUCL technical sessions were in general quite well-attended despite our location at the Westin, far more than 0.6 miles from the San Diego Convention Center. All symposia were well-attended, with the Seaborg Award symposium honoring Silvia Jurisson and the Lester Morss symposium achieving the milestone of more than 100 participants in attendance for several sessions. Thanks to one and all for your participation as speakers and as actively engaged members of the audience. The Al Ghiorso symposium was also very well attended, despite the Sunday morning scheduling (sorry Darleane and Dave!). Rounding out the program were symposia on Nuclear Medicine, Colloid Transport of Radionuclides and General Topic in Nuclear and Radiochemistry. To those of us who have been around a

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Members-at-Large, Executive Committee

SUZANNE LAPI, 2012-2014

DAVID MORISSEY, 2010-2012

while, it was very gratifying to see so many youthful faces in attendance. As to the meeting in general, it was rumored to be one of the largest ever for a National meeting, with nearly 12,000 talks presented and somewhere in the neighborhood of 18,000 in attendance.

Planning and organization for the upcoming 244th National Meeting (August 19-23 in Philadelphia) is nearly complete, with the last few abstracts being submitted as I write these notes. In Philadelphia we will have a symposium honoring Professor Sue Clark as recipient of the Garvin-Olin Award, a symposium commemorating the 100th anniversary of the birth of Glenn Seaborg and Charles Coryell, a reprise of Young Investigators in Nuclear and Radiochemistry, High Energy Density Physics and Chemistry, and General Topics in Nuclear and Radiochemistry. The abstract count for Philadelphia is near 100. In addition to this meeting, I would like to bring to your attention programming for the Northwest Regional Meeting (June 24-27 in Boise, Idaho) in a symposium titled Chemistry of the Nuclear Fuel Cycle, being organized by Dean Peterman. Abstracts are due for NORM April 18. With our Program Chair, Jen Braley, Bob Rundberg and I have been working on program targets for the 2013 national meetings (New Orleans in the Spring and Indianapolis in the Fall). The programmatic themes for these meetings are "Chemistry of Energy and Food" (New Orleans) and "Chemistry in Motion" (Indianapolis). Of particular note at present is a symposium entitled "Radiochemistry and Risk Assessment of Food and Potable Water Contaminated with Radionuclides" being organized by Catherine Franklin, Michael Arndt, William Cunningham, Thomas Semkow, and Lynn West for New Orleans. There is ample room available in both the New Orleans and Indianapolis programs for additional programming – your ideas are

welcome and we would be delighted to assist you with symposium organization.

From the Business meeting in San Diego, we have also developed a plan to adjust the timing of these newsletters to provide more timely reminders on deadlines for abstract submission for upcoming meeting. We are also trying to post more (and more timely) information to the NUCL Division website (<http://prosper.cofc.edu/~nuclear/?referrer=webcluster&>) to help keep you informed about activities and plans. At the Business meeting in San Diego, options were discussed regarding the funding of the Glenn T. Seaborg Award in Nuclear Science. A fundraising committee chaired by Mike Bronikowski is working on several ideas for future funding of this award. We gladly welcome your thoughts and ideas on this and other subjects of interest to the Division.

SEABORG AWARD– *Mike Bronikowski*

Progress to date on setting up a Seaborg Award Funding Committee was reported at the National ACS meeting in Anaheim. The committee is part of our division's response to the ACS Awards Review Committee. We still would like to have a few more people to help especially someone with corporate connections. We have begun to solicit funds starting with a pledge card that will be handed out at the 100th Birthday celebration symposium for Glenn Seaborg on April 21st being held at the UC Berkeley. Much thanks goes to Art Poskanzer and Heino Nitsche for helping set this up. The question was asked at the business meeting on how much people were willing to add to the dues in case we didn't obtain enough outside funding. I will put the list of the committee on the division web site with their contact information soon. We discussed adding a tally or goal and more importantly recognition of donors on the web page. Finally, if you want to make a

donation or know someone who does please make checks out to:

American Chemical Society
Division of Nuclear Chemistry and Technology
c/o Dr. Alice M. Murray/ Treasurer
40 Hemlock Ct
Aiken SC 29803

UPCOMING PROGRAMMING

Fall 2012 – Philadelphia – Materials for Health and Medicine

- Frances P. Garvin-John M. Olin Medal: Award Symposium in honor of Sue B. Clark - *Environmental Radiochemistry: Recent Advances and Interesting Careers* (Organizers Chris Armstrong, SRNL, Andrew Sowder, Electric Power Research Institute)
- Celebrating the 100th Anniversary of the birth of Glenn T. Seaborg and Charles Coryell (Organizers: Walter Loveland Romualdo deSouza, Todd A. Bredeweg, other organizers welcome)
- Young Investigators in Nuclear Science (Organizers: Nathalie Wall, Justin Walensky)
- High Energy Density Physics and Chemistry (Bob Rundberg, LANL, Dawn Shaughnessy, LLNL)
- Thermodynamics and Kinetics: The Basic Science of Separations (Organizers: Leigh Martin, Peter Zalupski) – cosponsored with I&EC/SS&T (primary)

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

- Seaborg Award Symposium
- Analytical Chemistry in Nuclear Technology (Organizers: Charles Coleman, Dave Hobart et al.)
- Nuclear Forensics (Organizers: Glenn Fugate et al.) – (NUCL primary – co-sponsored with I&EC/SS&T)
- Radiochemistry and risk assessment of food and water contaminated with radionuclides (Organizers: Michael

Arndt, michael.arndt@slh.wisc.edu, 608.224.6227, Catherine Franklin, catherine.franklin@doh.wa.gov, 206.418.5448, Thomas Semkow, tms15@health.state.ny.us, 518.474.6071, Lynn West, lynn.west@slh.wisc.edu, 608.224.6227, William Cunningham, 301-975-6271, William.Cunningham@fda.hhs.gov)

- General Topics in Nuclear and Radiochemistry – Ken Nash and Jenifer Braley

Fall 2013 – Indianapolis – Chemistry in Motion (transportation)

- Actinide Materials – Peter Burns, Ginger Sigmon
- Young Investigators – (Organizers: Nathalie Wall, other TBD)
- Archaeometry – Michael D. Glascock (GlascockM@missouri.edu), Jeffrey R. Ferguson (fergusonje@missouri.edu)
- General Topics in Nuclear and Radiochemistry – Ken Nash and Jenifer Braley

Spring 2014 – Dallas – Chemistry of Power and Advanced Materials

- Seaborg Award Symposium
- Global Status of Nuclear Energy (responding to thematic programming) (organizer: Ken Nash et al. – others welcome)

Fall 2014 – San Francisco – Chemistry for a Sustainable World

- Open

Several other concepts in development

Radiochemistry Infrastructure – cooperative with the Health Physics Society

Environmental Radiochemistry (Ralf Sodowe, UNLV, Spring 2013?)

SUMMER SCHOOL – Dave Robertson

The competition for participation in this year's Nuclear Chemistry Summer School was intense. We received over 200 applications from highly qualified students. I would like to extend my thanks to Suzy Lapi (Washington University of St. Louis), Richard Wilson (Argonne National Lab), Sue Clark (Washington State University), and Lav Tandon (Los Alamos National Lab) for serving on the selection committee. The 24 students selected to participate in the San Jose and Brookhaven National programs are:

At San José State University

Amanda Lathem, Huntingdon College; Joelle Reiser, Jamestown College; John Gray, Georgia Institute of Technology; Amer Al-khouja, Carnegie Mellon University; Christopher Minter, The College of St. Scholastica; Annie Bonaccorso, Brown University; Michael Delcau, Truman State University; John Herr, University of Iowa; Regina DiScipio, Baldwin-Wallace College; Kara McCullough, South Carolina State University; Bernadette Schneider, Oberlin College; Jonathan Gish, Utah State University

At Brookhaven National Laboratory

Jaimie Daum, Westminster College; Amanda Haymond, George Mason University; Justin Vadas, Earlham College; Daniel Mast, Saint Martin's University; Sarah Forman, Brown University; Steven Truong, St John's University; Scott Smith, East Stroudsburg University; Daniel Grigsby, University of Iowa; Julia Nell, Trine University; Steven Clark, Brigham Young University-Idaho; Anton Cottrill, Vanderbilt University; Clayton Dietz, Central Washington University

2011 Outstanding Students:

Congratulations to Andrew Sonnenberger (Illinois Wesleyan University) and Jeff Kwarsick (Michigan State University). Both were recognized at the ACS National Meeting in San Diego



Jeff Kwarsick of Michigan State University being presented his award by Paul Mantica as the 2011 Outstanding Student at the San José State University site.



Andrew Sonnenberger of Illinois Wesleyan University being presented his award by Paul Mantica as the 2011 Outstanding Student at the Brookhaven National Laboratory site.

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 2012 budget is forecasting an income of \$38,580 which is primarily from the ACS (allotment, dues, and Councilor travel) and anticipated donations to support special symposia such as additional support for the Lester Morss Symposium at the ACS 2012 Spring National Meeting. The projected expenses are \$53230 which includes expenses associated with the Lester Morss Symposium at the ACS 2012 Spring National Meeting, the Nuclear and Radiochemistry Summer School, other national meeting activities, Innovative Project Grant programs, and administrative activities.

ACS REGIONAL MEETINGS

Our Division will be supporting symposium at the following two upcoming ACS Regional Meetings. Through such sponsored regional meeting programming it is our intent to provide more convenient meeting venues for all of our members.

The 2012 ACS Northwest Regional Meeting (NORM 2012) will feature a symposium on "Chemistry of the Nuclear Fuel Cycle" that is being organized by Dean R. Peterman (Dean.Peterman@inl.gov) and Jack Law (Jack.Law@inl.gov). Confirmed speakers for that symposium include Ken Nash (Washington State University) and Terry Todd (Idaho National Lab). NORM 2012 will be held in Boise, Idaho at the Boise Center on the Grove over June 24-27, 2012. The meeting abstract deadline is April 18, 2012 and submissions can be made through the meeting web site: <http://www.snakeriveracs.com/norm2012.html>

The 2012 ACS Rocky Mountain Regional Meeting will also feature a symposium on Nuclear Chemistry. RMRM 2012 will be held at the Westin hotel in Westminster, Colorado over October 17-20, 2012. For information on participating in that symposium please contact Donivan Porterfield (dporterfield@lanl.gov).

CORYELL AWARD

The Coryell Award for undergraduate research has nominations due at the end of April. If any division member has an undergraduate research project that is worthy of nomination, please see the DNCT website for details

<http://prosper.cofc.edu/~nuclear/coryell.htm>

or contact Graham Peaslee (peaslee@hope.edu) for details.

COUNCILORS' REPORT – *Steve Yates and Graham Peaslee*

After eight years with only one Councilor, the Division now has sufficient membership that we are represented by two Councilors. You are encouraged to contact either of us. The following edited summary was provided by the Office of the Secretary and General Counsel on key actions and discussions of the ACS Council and Board of Directors at the 2012 Spring National Meeting in San Diego.

ACTIONS OF THE COUNCIL

Election Results

- The Committee on Nominations and Elections (N&E) presented to the Council the following nominees for selection as candidates for President-Elect, 2013: Thomas J. Barton, Luis A. Echegoyen, William A. Lester, Jr., and Barry M. Trost. The Council selected Thomas J. Barton and Luis A. Echegoyen as candidates for 2013 President-

Elect. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall National Election.

- N&E announced the results of the election to select candidates from the list of nominees to represent District I and District V on the Board of Directors for the term 2013-2015. Nominees for District I included Barbara J. Garrison, Thomas R. Gilbert, Neil D. Jespersen, and Julianne M. D. Smist. Nominees for District V included John E. Adams, Frank D. Blum, Peter K. Dorhout, and Frankie K. Wood-Black. By mail ballot, the Councilors from these districts selected Thomas R. Gilbert and Neil D. Jespersen as District I candidates; and John E. Adams and Peter K. Dorhout as District V candidates.

Candidates for Directors-at-Large

- N&E announced the selection of the following candidates for Directors-at-Large for a 2013-2015 term: Carol A. Duane, Valerie J. Kuck, Helen (Bonnie) A. Lawlor, and Ingrid Montes. The election of two Directors-at-Large will be conducted in the fall.

The Society's Finances

- Despite the sluggish economy, ACS generated strong operating results in 2011. Total revenue was \$472.0 million, up 1.8% over 2010. The Net from Operations was \$20.9 million, or \$7.7 million favorable to budget. This result was attributable to better-than-expected performance by the ACS Publications Division and careful expense management across the Society. While operating results were favorable, Unrestricted Net Assets declined from \$130.5 million to \$102 million. The decline was primarily due to a sizable accounting charge related to the Society's closed postretirement benefit plans. ACS ended the year in compliance with four of the five Board-established financial guidelines.

2013 Member Dues

- The Council VOTED to set the member dues for 2013 at \$151. This rate is established with an inflation-adjustment formula in the ACS Constitution and Bylaws.

Petitions to Amend the Constitution and Bylaws

- The Council took action on two amendments (petitions) to the ACS Constitution and Bylaws: The Petition to Amend Recorded Vote Request Procedure and the Petition on Market Data Collection. The Council VOTED overwhelmingly to approve both petitions. The Petition on Market Data Collection seeks to add a provision to allow for controlled market testing and the collection of data before the Society changes benefits, dues, or membership categories. The Board of Directors will vote within 90 days on whether to ratify the approved petitions.

Member Statistics

- Membership recruitment and retention efforts were very successful last year. The Society ended 2011 with 164,215 members, the highest number in Society history, including 24,249 new members, of whom 16,092 are Regular Members and 8,157 are Undergraduate Members.

Attendance Report

- As of March 28, 2012, the ACS spring national meeting had attracted 16,921 registrants including 8,974 regular attendees and 5,742 students.

Special Discussion Item

- A special discussion item was placed on the Council agenda for this meeting by

ACS President Bassam Shakhashiri, who presented and moderated a discussion on “What is your reaction to the proposed topics for the ACS Climate Science Toolkit?” President Shakhashiri’s working group on ACS Climate Science has developed a preliminary web-based toolkit (see link below) that ACS members will be able to use as a resource for understanding and communicating the basic science behind climate change. Following a short presentation, from which it became clear that many ACS councilors were insufficiently informed to answer climate science questions, Councilors engaged in a robust discussion on the proposed toolkit and its use, and offered numerous suggestions for consideration. As you might expect, support was not unanimous for the toolkit, but the discussion of the role of the ACS in helping to disseminate the actual chemistry involved in climate science discussions was enthusiastic. A revised version of the toolkit should be available to all ACS members later this year.

ACTIONS OF THE BOARD OF DIRECTORS

At this meeting, the ACS Board of Directors considered a number of key strategic issues and responded with several actions.

The Board’s Committees

- The Committee on Grants and Awards presented the Board with a screened list of nominees for the 2013 Priestley Medal, Charles Lathrop Parsons Award, and the Award for Volunteer Service to the ACS. The Board VOTED to approve the screened lists, and will now vote on, and announce, the winners of these three awards after its June meeting. The Board also VOTED to approve a Society nominee for the National Medal of Science.

- On the recommendation of the Committee on Executive Compensation, the Board VOTED to approve several actions

relative to compensation for the Society's executive staff. The compensation of the Society's executive staff receives regular review from the Board of Directors.

The Executive Director/CEO Report

- Madeleine Jacobs, the Executive Director and CEO, updated the Board on the activities of Chemical Abstracts Service, the ACS Publications Division, and the Society's General Counsel.

ACS vs. Leadscope Litigation

- The General Counsel report included a briefing on the ACS vs. Leadscope litigation.

As previously reported, ACS has appealed to the Ohio Supreme Court, and the Court agreed to hear the case. Briefs have been filed in support of our position by several prestigious organizations, including the Ohio Attorney General, the Ohio Chamber of Commerce, the Ohio Manufacturers' Association and the Ohio State Bar Association. On September 7, the Supreme Court heard oral arguments in the case, and a link to the arguments can be found on acs.org. A ruling has not been issued but could come at any time.

Other Society Business

The Board received the following:

- a briefing on current virtual and hybrid meeting strategies using the Virtual Career Fair and Virtual Exposition;
- a report from the Committee on Professional Training-Committee on Education (CPT-SOCED) Task Force on the American Association of Medical Colleges and the Howard Hughes Medical Institute report Scientific Foundations for Future Physicians – wherein the CPT-SOCED task force is considering the implications of chemistry-related recommendations contained in the report;

- a report from the President-Elect on plans and priorities during her presidential year; and a discussion on presidential succession budgets - particularly in light of increasing international and domestic travel demands.

The Board approved:

- the 2015 Pacificchem budget and authorized reimbursement, on a pro rata basis, to the participating ACS Divisions for expenditures in support of the Pacificchem program and activities;
- changes to Board Regulations regarding the composition of the Planning Committee and the appointment of canvassing and award committees;
- a proposal to administer and present the AkzoNobel North American Science Award as recommended by the Committee on Grants and Awards; and
- proclamations recognizing the 100th Anniversary of the South African Chemical Institute and the 80th anniversary of the Chinese Chemical Society.

The Society's International Activities and its Open Session

The Board welcomed and received reports from several international guests representing the following scientific societies: the Canadian Society for Chemistry, the German Chemical Society, the Hungarian Chemical Society, the International Union of Pure and Applied Chemistry, the Mexican Chemical Society, and the Royal Society of Chemistry.

The Board held a lively, well-attended open session that featured a special forum on "The Future of Graduate Education and Research in the Chemical Sciences." Members attending this standing-room only session received an overview and update from the chair and executive director of the ACS

Presidential Commission on Graduate Education in the Chemical Sciences.

The following is a list of URLs and email addresses presented on slides at the Council meeting.

Safety

safety@acs.org – email address for sharing ideas on “How can ACS best cultivate a culture of safety in US universities and colleges?”

www.acs.org/safety - information on the Committee on Chemical Safety including “Creating Safety Cultures in Academic Institutions”

Employment/Careers

www.acs.org/careers - information on ACS career resources

www.acs.org/ei - information on the ACS Entrepreneurial Initiative (Training and Resources)

Local Section Resources

www.acs.org/getinvolved : grant information, important deadlines, officer resources

www.acs.org/forms: submit annual reports, record meetings, activities and events year round

speakers@acs.org: nominate speakers for the Online Speaker Directory

Other

www.acs.org/strategicplan - information on the new ACS Strategic Plan for 2012 and Beyond

www.acs.org/bulletin5: location of the Society's governing documents and unit bylaws, and information on the petition process to amend the Society's governing documents

bylaws@acs.org: email address for questions to the Committee on Constitution and Bylaws

www.acs.org/climatescience: information on the Climate Science Toolkit

JOB OPENING

NUCLEAR CHEMISTRY NSCL/FRIB Laboratory

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Status: Downloaded
Mime-type:application/pdf
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NSCL (National Superconducting Cyclotron Laboratory) invites applications for a position in Nuclear Chemistry in the continuing appointment system and is expected to have a joint appointment in the Chemistry Department at MSU. The position is expected to be filled at the Assistant Professor level; a more advanced level may be possible depending on the qualifications of the candidate. The successful candidate will join the faculty in the Fall, 2012 and teach Chemistry, mentor undergraduate, graduate and post-graduate students, and initiate a strong, internationally successful experimental research program that complements the existing program at NSCL that will continue in the future at the Facility for Rare Isotope Beams (FRIB). Additional information is available on the NSCL web site at: <http://www.nscl.msu.edu/ourlab/employment/1601>.

For immediate consideration, please go to www.jobs.msu.edu and apply for posting number 5867. Applicants should also send a cover letter with a CV, a two-page research plan, and a list of at least three references to **Prof. David Morrissey, Nuclear Chemistry Search, NSCL/FRIB Laboratory, Michigan State University, 640 S. Shaw Lane, East Lansing, MI 48824.**

Michigan State University is committed to achieving excellence through cultural diversity. The university actively encourages applications and/or nominations of women, persons of color, veterans and persons with disabilities.

