



Division of Nuclear Chemistry and Technology
American Chemical Society

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

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NEWSLETTER

April 2009

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Topics

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FROM THE CHAIR – *Mark Stoyer*

Thanks to all of the symposium organizers and speakers for making the Salt Lake City meeting such a success. We had many interesting symposia and a lot of great discussions during the week.



Dr. Mark A. Stoyer on stage presenting Dr. Kenton J. Moody with the 2009 Glenn T. Seaborg Award for Nuclear Chemistry “For discovering five elements and more than 30 isotopes, providing experimental evidence for the deformed nuclear shells at Z=108 and N=162, and developing nuclear forensics.”

By the time this newsletter reaches you, the Fall 2009 ACS program for Washington, DC (Aug. 16-20, 2009) will be mostly set. We are planning a very full and diverse program, with several symposia fitting into the overall meeting theme of "Chemistry and Global Security: Challenges and Opportunities". We currently have over 220 papers submitted in the NUCL program without including the additional papers in co-sponsored symposia. It will be a larger and energetic meeting. Here are the planned symposia:

[Actinide Chemistry](#)

Jun Li, WR Wiley Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory, Richland, WA 99352; Michael G. Bronikowski, Actinide Technology Section, Savannah River National Laboratory, Aiken, SC 29808; Charles L. Crawford, Savannah River National Laboratory, Building 773-41A, Rm. 180, Aiken, SC 29808; Ginger Sigmon, Department of Civil Engineering and Geological Sciences, University of Notre Dame, 156 Fitzpatrick Hall, South Bend, IN 46556; Peter C. Burns, Department of Civil Engineering and Geological Science, University of Notre Dame, South Bend, IN 46556; Kimberly Powell Crapse, Savannah River National Laboratory, Aiken, SC 29808

[Nuclear Chemistry in Neutrino Research](#)

Richard L. Hahn, Chemistry Department, Brookhaven National Laboratory,*, Building 555, Upton, NY 11973-5000, Phone: 631 344 4337, Fax: 631 344 5815, hahn1@bnl.gov. Minfang Yeh, Department of Chemistry, Brookhaven National Laboratory, Upton, NY 11973, Phone: 631-344-2870, Fax: 631-344-5815, yeh@bnl.gov

[Nuclear Chemistry's Academic Infrastructure](#)

Jeffrey C. Bryan, Department of Chemistry, University of Wisconsin – La Crosse, La Crosse, WI 54601, Phone: 608-785-8271, bryan.jeff@uwlax.edu

[Nuclear Diagnostics in Fusion Energy Research](#)

T. Craig Sangster, Laboratory for Laser Energetics, Rochester, NY 14623, Phone: (585) 273-2350, csan@lle.rochester.edu. Mark A. Stoyer, Physics Division, Lawrence Livermore National Laboratory, L-414, Livermore, CA 94550, Phone: 925-423-3079, mastoyer@llnl.gov

[Nuclear Energy and the Environment](#)

Chien M Wai, Department of Chemistry, University of Idaho, Moscow, ID 83844-2343, Phone: 208-885-6787, Fax: 208-885-6173, cwai@uidaho.edu. Linfeng Rao, Actinide Chemistry Group, The Glenn T. Seaborg Center, Chemical Sciences Division, Lawrence Berkeley National Laboratory, 1 Cyclotron Road, MS 70A-1150, Berkeley, CA 94720, Phone: 510-486-5427, LRao@lbl.gov. Bruce J. Mincher, Aqueous Separations and Radiochemistry Department, Idaho National Laboratory, P.O. Box 1625, Idaho Falls, ID 83415-7113, Phone: 208-533-4449, Fax: 208 533-4207, bruce.mincher@inl.gov. Marsha J. Lambregts, Nuclear Programs, Idaho National Laboratory, PO Box 1625, Idaho Falls, ID 83403, Phone: 208-533-7051, Fax: 208-533-7755, Marsha.Lambregts@inl.gov

[Probe Development in Molecular Imaging and Therapy](#)

Cosponsored with INOR[‡]

Alan B. Packard, Division of Nuclear Medicine and Department of Radiology, Children's Hospital Boston/Harvard Medical School, 300 Longwood Ave, Boston, MA 02115, Phone: 617-355-7539, Fax: 617-730-0619, alan.packard@childrens.harvard.edu

[Radioactive Nuclear Beams](#)

Walter Loveland, Department of Chemistry, Oregon State University, 100 Radiation Center, Corvallis, OR 97331

[Recent Advances and Future Directions in Modern Nuclear Science: Graduate Student Research](#)

Brian A. Powell, Department of Environmental Engineering and Science,

Clemson University, 342 Computer Court, Anderson, SC 29625, Phone: (864)656-1004, bpowell@clemson.edu. Corina Andreoiu, Nuclear Science, Simon Fraser University, 8888 University Drive, Vancouver, BC V5A-1S6, Phone: 778-782-3946, Fax: 778-782-3765, corina_andreoiu@sfu.ca. Jiangyong Jia, Department of Chemistry, State University of New York at Stony Brook, Stony Brook, NY 11794-3400, Phone: 631-632-7905, jjia@bnl.gov

Symposium in Honor of P. Jeffrey Hay

Aurora Clark, Department of Chemistry, Washington State University, PO Box 644630, Pullman, WA 99164-4630, Phone: (509) 335-3362, auclark@wsu.edu

Nuclear Chemistry Summer Schools:

There have been encouraging signs from funding agencies to establish a third summer school site. To this end, the executive committee will be developing a process to evaluate the needs for and efficacy of establishing a third Nuclear and Radiochemistry Summer School. The timeline for such a process is determined by the term of the present summer school grant. We have just started year 3 of the 5 year renewal grant. The next grant application will require submission of a pre-application around May 2011. Stay tuned to future newsletters for details of the process and characteristics of successful petitions for hosting a third summer school. It is envisioned that the executive committee will be charged with evaluating those petitions.

In line with the above discussions, a search for a new National Director of the summer schools will begin in early 2010. The term of Paul Mantica, the present National Director, will expire in January 2012. We would like to have a new national director in place to overlap with the end of Paul's tenure. The new director will have primary responsibility for submission of the grant paperwork for

renewal of the contract for operation of the summer schools.

ACS Fellows Program:

The American Chemical Society is starting a Fellows Program. Information about the program, nomination forms, and instructions on submitting nominations can be found at the website www.acs.org/fellows. The deadline for nominations this year is April 15, 2009.

Future programming:

As always we continue to look for programming suggestions for future meetings. Feel free to contact Silva Jurisson with your ideas for 2010 and Mike Bronikowski with your ideas for 2011! Also 2011 is the International Year of Chemistry. Several "Marie Curie" events are planned in coordination with this year

I look forward to seeing everyone in Washington, DC in August.

Mark A. Stoyer
2009 Chair, DNCT

COUNCILOR'S REPORT

From Steve Yates

The following summary is provided by the Office of the Secretary and General Counsel on key actions of the ACS Council and Board of Directors at the 2009 spring fall national meeting.

ACTIONS OF THE COUNCIL

Election Results

- The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2010: Berkeley W. Cue, Jr., Nancy B. Jackson, Cheryl A. Martin, and Dorothy J. Phillips. By electronic ballot, the Council selected Nancy B. Jackson and Cheryl A. Martin as

candidates for 2010 President-Elect. These two candidates, along with any candidates selected via petitions, will stand for election in the Fall National Election.

- The Committee on Nominations and Elections 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 2010-2012. Nominees for District I included: D. Richard Cobb, Neil D. Jespersen, Wayne E. Jones, and James L. Kallmerten. Nominees for District V included Thomas J. Barton, Judith L. Benham, Peter K. Dorhout, and John W. Moore. By mail ballot, the Councilors from these districts selected D. Richard Cobb and Neil D. Jespersen as District I candidates; and as District V candidates, Judith L. Benham and Peter K. Dorhout. Ballots will be mailed on or before October 10 to all members in District I and District V for election of a Director from each District.

Candidates for Directors-at-Large

- The Committee on Nominations and Elections announced the selection of the following candidates for Directors-at-Large for a 2010-2012 term: Dennis Chamot, H. N. Cheng, Ray A. Dickie, and Valerie J. Kuck. The election of two Directors-at-Large will be conducted in the fall. Ballots will be mailed to the Council on or before October 10.

Committee Elections

- The Committee on Nominations and Elections presented Roger F. Bartholomew and Roland F. Hirsch to Council as candidates for election to the Committee on Committees (ConC) to fill a vacancy created by a committee member's resignation. By written ballot, the Council elected Roland F. Hirsch.

- Candidates Carol B. Libby and Robert A. Pribush were presented to Council for election to the Committee on Nominations and Elections (N&E) to fill a vacancy created

by a committee member's resignation. By written ballot, the Council elected Robert A. Pribush.

Petition to Amend Bylaws

(For Consideration)

- The Council received one petition for consideration: the Petition on Election Timelines 2009. According to the proposing committee, this petition presents election procedure refinements that are intended to provide a fair, consistent, and equitable process, which balances the concerns and needs of participants, as requested by Councilors and candidates. Action is expected on the petition at the fall Council meeting.

Change in Committee Charge

- The Council VOTED to permit the Committee on Chemistry and Public Affairs to amend a portion of its charge from: "a. Identify and analyze legislative, regulatory, research and other science policy issues that impact upon the chemical sciences and technologies" to "a. Identify and analyze legislative; regulatory; research; Science, Technology, Engineering, and Math (STEM) education funding; and other science policy issues that impact upon the chemical sciences and technologies."

The Society's Finances

- The Council and Board of Directors received extensive briefings on the Society's finances, which showed that in spite of the economic challenges faced in 2008, the Society's operating performance held up well. Total revenue was approximately \$450 million, up just over 3% from 2007. The Society's Net from Operations was \$9.7 million, and \$560,000 favorable to budget. This is the fifth consecutive year of positive operating results.

However, in 2008 ACS was adversely impacted by the historic collapse in the

capital markets, which resulted in a sharp decline in the Society's unrestricted net assets from \$212 million at December 31, 2007, to \$60 million at December 31, 2008. There were two factors driving this decrease, both related to the poor performance in the capital markets. These are substantial investment losses and a sizable increase in pension liability from the Society's Defined Benefit Pension Plan. For this and other reasons, action was taken in 2007 to close the Defined Benefit Pension Plan, and, in 2008, to freeze benefit accruals for all Defined Benefit Pension Plan participants in 2009.

It is in this context that the Board received a detailed briefing from management at this meeting on the framework of the 2009 Contingency Plan. In 2006, the Society had the foresight to develop a robust Contingency Plan that contemplated potential threats from many different sources, their probability of occurrence, likely duration and financial impact. The updated 2009 Plan covers all operating and administrative units as well as member programs, and identifies new and emerging threats. ACS management has also updated the mitigation strategies to respond to the threats and ensure the Society's long-term financial sustainability.

Society management and the Board of Directors are closely monitoring financial performance versus the budget. In addition, significant reductions in discretionary spending have already been implemented and additional cost control measures are under consideration. However, despite the adverse impact of the economic downturn, the Society remains highly liquid with more than \$275 million in cash and investments, and limited debt of \$30 million.

2010 Member Dues

- After a lengthy discussion and rejection of two amendments, the Council VOTED to set the member dues for 2010 at the fully escalated rate of \$145. This rate is established pursuant to an inflation-

adjustment formula in the ACS Constitution and Bylaws. The vote was 348 to 70.

Member Statistics

- At the close of 2008, Society membership totaled 154,024, compared to 160,052 for year-end 2007. In 2008, ACS completed the transition of its 15 year-old membership fulfillment system to a new, more robust system. The year-end 2008 membership numbers reflect a drop in membership of approximately 2% due to the economy and a correction to the counts of 2,589 Emeritus members whom ACS has not been able to reach for many years. Compared to its sister societies, ACS experienced a smaller loss of members in 2008.

Special Discussion Item

- A special discussion item was again put on the Council agenda for this meeting. ACS President Thomas H. Lane invited the Chair of the Committee on Membership Affairs to present the results of a Councilor survey as a preface to the discussion on what can ACS do to attract new members while better serving our membership during these challenging economic times. Following the presentation, President Lane led Councilors in a lively discussion that focused on the value of ACS membership and on growth opportunities among students, international scientists, high school teachers, technicians, diverse ethnic groups and others.

Attendance Report

- As of March 25, 2009, the ACS spring national meeting had attracted 10,668 registrants as follows: Regular attendees 5,781; Students 3,439; Exhibitors 780; Exposition only 411; and Guests 257.

Professional Employment Guidelines

- The Council VOTED to approve the Professional Employment Guidelines, as submitted by the Committee on Economic and Professional Affairs. These guidelines offer a broad spectrum of recommended

practices in employment for professional scientists and their employers.

ACTIONS OF THE BOARD OF DIRECTORS

Committee Actions

- The Board received reports from its Executive Committee, Committees on Grants and Awards (G&A), Committee on Planning, and the Committee on Professional and Member Relations (P&MR).

On the recommendation of the Committee on Grants and Awards, the Board VOTED to delegate oversight authority for the new ACS Fellows Program to G&A. G&A also presented the Board with a screened list of nominees for the 2010 Priestley Medal and the Volunteer Service Award. The Board VOTED to accept the committee's lists and agreed to announce the winners of the 2010 Priestley Medal and the Volunteer Service Award after its June meeting.

On the recommendation of the Committee on Professional and Member Relations, the Board VOTED to amend its Regulations to reflect P&MR's responsibility to review and approve requests for international alliances under delegated authority from the Board. The Board also VOTED to eliminate the requirement that an individual have a Pubs/CAS subscription authentication in order to be eligible for participation in the Network as an ACS global partner.

The Executive Director/CEO Report

- The Executive Director/CEO, along with several of her direct reports, updated the Board on the activities of Chemical Abstracts Service, the Publications Division, and the Society's General Counsel. The Board VOTED to approve a co-editor appointment and two reappointments of journal editors.

Compensation of Society Staff

- 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.

Other Society Issues

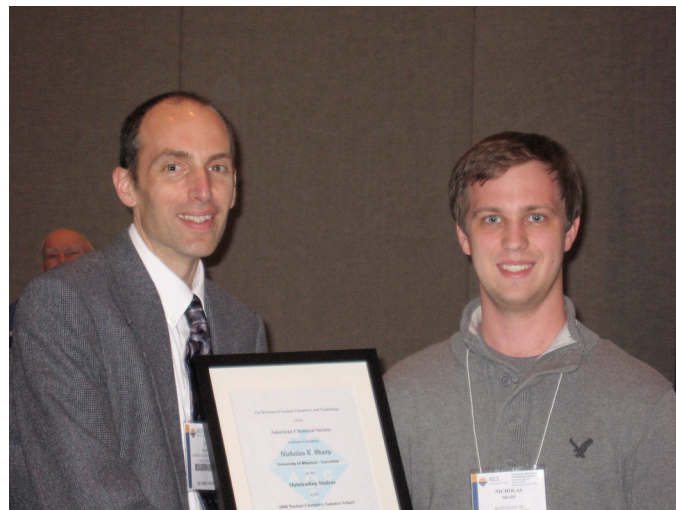
- The Board was briefed by its working group monitoring the 2009 Plan for Continuous Improvement. This plan, which currently includes four broad topic areas and subtopics, is designed to enhance overall Board effectiveness.

SUMMER SCHOOL

From Paul Mantica:

2008 top student awards

Julie Spector of Brown University (BNL) and Nick Sharp of University of Missouri (SJSU) were the 2008 Nuclear and Radiochemistry Summer School Outstanding Student Awardees.



Nick attended the ACS National Meeting in Salt Lake City and was recognized for his accomplishments at the DNCT Business Meeting.

Selection of 2009 Class

More than 90 applications were received for the 2009 Summer School program. A committee comprised of Susan Lever (U. Missouri - Columbia), Chris McGrath (INEL),

Alena Paulenova (Oregon State U), and Michael Bronikowski (Savannah River) reviewed the applications and provided a ranked ordering of students.

The list of participating students is given below:

2009 NCSS - BNL

Thomas Allen - University of North Carolina
Jennifer Beveridge - Indiana University of Pennsylvania

Melissa Deri - New York University
Marc Fitzgerald - University of Maryland
Hunter Fontenot - Loyola University (LA)
Joseph Jablonski - Fairleigh Dickinson University (NJ)

Jennifer Luther - Purdue University (IN)
Kristen Meyer - Gonzaga University (WA)
Anthony Schneider - Ohio Northern University

Jennifer Shusterman - Tufts University (MA)
Kyle Sutherlin - Washington University, St. Louis (MO)

Jennifer Wong - University of California, Berkeley

2009 NCSS - SJSU

John Auxier - Adams State College (CO)
Jennifer Erchinger - Texas A&M University
Lauren Garofalo - Baylor University (TX)
Lindsey Gilman - Valparaiso University (IN)
Lauren Grabstanowicz - Lewis University (IL)

Lauren Heilborn - Hillsdale College (MI)
Phyllis Ko - Rutgers University (NJ)
Jeff Rolfes - Newman University (KS)
Eric Rutledge - Rice University (TX)
Mathew Snow - Brigham Young University, Idaho

Scott Suchyta - The Ohio State University
Ben Williams - Southern Arkansas University

The 2009 Summer Schools will begin Monday, June 15 and run through Friday, July 24. Herb Silber and Rich Ferrieri will continue their roles as Site Directors at SJSU and BNL, respectively.

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

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National Director, ACS Nuclear and Radiochemistry Summer Schools
Michigan State University
East Lansing, MI 48824
Phone 517-333-6456
FAX 517-353-5967
email mantica@msu.edu

ANNOUNCEMENTS

From Donovan Porterfield

The Division will be a sponsor for a one-woman dramatic presentation about "Madame Curie" at the 2009 ACS Northwest Regional Meeting (NORM) in Tacoma, WA on Monday, June 29. NORM 2009 will be held during the dates of June 28 to July 1 at Pacific Lutheran University in Tacoma. Please see the meeting web site for more information:

<http://www.chem.plu.edu/norm2009>. The "Madame Curie" presentation will be a public event so registration for the meeting will not be required to attend.

On the topic of Marie Curie, 2011 will mark the 100th anniversary of her receiving the 1911 Nobel Prize (her second Nobel) for discovery of the elements radium and polonium. That anniversary will be a key event to be celebrated as part of the International Year of Chemistry in 2011 - www.chemistry2011.org.

The Division is also contributing monetary support to a session on "Nuclear Chemistry and Repository Science" being organized by Don Reed (LANL - Carlsbad) for the 2009 ACS Southwest Regional Meeting in El Paso, TX on November 4-7, 2009. For more information on that session please contact Don at dreed@lanl.gov or for general meeting information the web site is www.swrm.info.

