



Division of Nuclear Chemistry and Technology
American Chemical Society

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

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NEWSLETTER

July 2009

Newsletter Editor: Lætitia Delmau

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Topics

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FROM THE CHAIR – *Mark Stoyer*

Upcoming 238th National ACS meeting in Washington, DC
Aug. 16-20, 2009

Please plan to attend the Fall 2009 ACS meeting. 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”.

The Fall meeting will have approximately 230 speakers. The technical program will occur in the Renaissance Washington DC Hotel. All abstracts are on-line now—visit:
<http://oasys2.confex.com/acs/238nm/techprogram/NUCL.HTM>

Here are the scheduled 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](#)

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[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](#)

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[Nuclear Energy and the Environment](#)

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

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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,
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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.

UPCOMING NATIONAL MEETINGS

The program for the Spring ACS meeting in San Francisco is shaping up. 4 symposia are scheduled so far.

(1) Lanthanides and Actinides. Organizers Lynn Francesconi and Cathy Cutler

(2) The Seaborg Award Symposium

(3) Analytical Chemistry in Nuclear Technology. Organizers: David Hobart, David Hobbs and Chuck Coleman

(4) The Nuclear Fuel Cycle, in Memory of Dr. Charles Madic. Organizers: Lætitia Delmau and Patricia Paviet-Hartmann

Please contact Silvia Jurisson for symposia suggestions for both the Spring and the Fall ACS meetings.

As always we continue to look for programming suggestions for future meetings. Feel free to contact 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

In addition to the usual reports from Society officers and committee chairs, elections will be conducted for the Committee on Committees, the Council Policy Committee, and the Committee on Nominations and Elections. Only Councilors may serve on these elected committees. The agenda for the ACS Council meeting includes the following items.

- An urgent (requiring a three-fourths vote of the Council that sufficient urgency exists) petition would amend the section of the Society Constitution dealing with the selection of candidates for President-Elect, Directors-at-Large, and District Directors. If enacted, the selection of candidates would continue to occur through a) a screening process conducted by the Committee on Nominations and Elections or b) direct

selection by the petition process, but eligible persons selected by members through petition would appear as candidates on the final ballot without further screening.

- Presented for action is a petition to change the timelines for ACS national elections. If this petition is approved, the length of time between when candidates are asked to run and the time of the actual election would be decreased. Additional changes are designed to provide a fair, consistent, and equitable process, which balances the concerns and needs of all participants, as requested by the Councilors and candidates.

- A request to dissolve the Division of Chemical Technicians (TECH) has been put forward by TECH. Recent changes in membership qualifications and requirements allow technicians to become full members of the ACS, thus they are now more integrated into other divisions.

- As a result of changes to the Constitution and Bylaws by the recently approved Petition on Membership Categories and Requirements Revisions, the Council is being asked to approve affected sections in the Bylaws for divisions in probationary status and in the Charter Bylaws for Local Sections and International Chemical Sciences Chapters.

- A revised petition on removing the Admissions Committee from the Bylaws and transferring those functions to the Committee on Membership Affairs will also be considered.

Steve continues his service on the ACS Committee on Divisional Activities (DAC), and Elliot continues to perform conscientiously his duties as Division Councilor Emeritus.

SUMMER SCHOOL

From Paul Mantica:

The 2009 ACS Nuclear and Radiochemistry Summer Schools are underway. Twelve students were selected to participate at each of the two site locations, as identified in the previous newsletter.

Prof. Herb Silber is Site Director at San Jose State University, and Prof. Frank Kinard is serving as primary lecturer.

Information on the San Jose program is available at:

<http://www.cofc.edu/~kinard/NuclearSummerSchool/NSSHomepage.htm>

Dr. Richard Ferrieri serves as Site Director at Brookhaven National Laboratory. The lecture assignments are divided weekly among visiting instructors.

The 2009 lecturer lineup includes Paul Mantica (Michigan State U.), Dave Robertson (U. Missouri), Jiangyong Jia (SUNY Stony Brook), Paul Karol (Carnegie Mellon) and Ken Czerwinski (U. Nevada - Las Vegas).

The BNL program is available for viewing at:
<http://www.bnl.gov/ncss>

We anticipate accepting applications for the 2010 ACS Nuclear and Radiochemistry Summer School program beginning in November 2009.

Any questions regarding the Summer School program should be directed to:

Paul Mantica
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

Separation for application to the nuclear fuel cycle, Symposium in Memory of Dr. Charles Madic

**239th American Chemical Society National Meeting
San Francisco, CA March 21-25, 2010**

A symposium entitled “Separation for application to the nuclear fuel cycle, in Memory of Dr. Charles Madic” is going to be held at the 239th American Chemical Society National Meeting in San Francisco, CA March 21-25, 2010. As more countries consider nuclear power, it is important that key topics such as R&D on future fuel cycles, waste management and integrated science repository being presented and discussed for a sustainable development of nuclear energy.

One of the major objectives of this symposium is not only to bring nuclear scientists but also to promote networking between countries, institutions, graduate students and potential next generation leaders. To raise awareness of activities and capabilities within the international actinides/radionuclides science community, this symposium will cover research topics that encompass nuclear fuel fabrication, nuclear fuel treatment and reprocessing as well as a comprehensive understanding of processes governing the behavior of nuclear wastes in storage and final disposal. Researchers and engineers involved in advanced research in actinide sciences for further development of a dynamic, competitive and sustainable knowledge-based nuclear industry are encouraged to attend.

Organized by: Laetitia Delmau, Oak Ridge National Laboratory, delmaulh@ornl.gov
Patricia Paviet-Hartmann, University Nevada Las Vegas, patricia.paviet-hartmann@unlv.edu

Please submit your abstract using Online Abstract Submittal Form System (OASys) at <http://oasys.acs.org>. In the meantime, please feel free to contact any one of the organizers if you have questions.

Sixteenth Symposium on Separation Science and Technology for Energy Applications

Park Vista Hotel Gatlinburg, Tennessee October 18-22, 2009



CALL FOR ABSTRACTS

Sixteenth Symposium on Separation Science and Technology for Energy Applications

You are invited to participate in the 16th Symposium on Separation Science and Technology for Energy Applications.

The symposium is October 18-22, 2009, at The Park Vista Resort Hotel in Gatlinburg, Tennessee. The hotel's location, on the edge of the Great Smoky Mountains National Park, allows participants to experience the beauty of the colorful fall foliage in the park, both from hotel rooms and during hikes, drives, or bike rides through the mountains. You are welcome to come early and stay late, as the weather and the views are spectacular during October.

The topical focus of the symposium is on separations key to the development of sustainable energy systems and energy-efficient processes. Presentations (either oral or poster session) are encouraged in a wide range of fundamental and applied separations topics, including:

- Adsorption and Ion Exchange
- Novel Separation Methods
- Nuclear Fuel Cycle Separations
- Membrane Separations
- Solvent Extraction
- Department of Energy Applications

Of particular interest are papers that illustrate new ideas, describe novel applications, identify newly-recognized needs, and generate lively scientific/technical discussions on separations science and technology.

You are invited to submit a 200- to 250-word abstract through the online submittal form on the symposium website at <http://sst.ornl.gov> BEFORE JULY 15, 2009. Authors of all papers presented at the symposium are invited to submit full-length manuscripts describing their work in the proceedings volume, which is published in *Separation Science and Technology*. **A discounted registration fee is available for students.** See website for details.

New this year!
Student Poster Session with award

Oral sessions are conducted without concurrent sessions to facilitate cross-discipline discussion among participants. The single-evening poster session, which offers refreshments and is structured less formally than oral sessions, is a featured event at this meeting and typically attracts full participation from attendees. The poster session is a particularly effective way to present recent developments and fosters in-depth discussions on complex studies. Papers in poster and oral sessions receive equal consideration for inclusion in the special proceedings issue.

Please share announcement with associates and friends. Regularly visit <http://sst.ornl.gov> for updates in information. If you have questions, email sstconf@ornl.gov or contact one of us. We look forward to seeing you in October.

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