



Division of Nuclear Chemistry and Technology
American Chemical Society

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

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NEWSLETTER

October 2006

Newsletter Editor: Lætitia Delmau

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Topics

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- > ELECTION RESULTS
- > ACS SPRING MEETING : CHICAGO 2007
- > COUNCILORS' REPORT
- > SUMMER SCHOOL
- > ANNOUNCEMENT: ISEC 2008

FROM THE CHAIR – J. David Robertson

I would like to begin by thanking all of those who helped to make the San Francisco meeting such a great success. The meeting topics reflected the great diversity of our division and were very well attended. Some of the highlights of the meeting included the plenary lecture by Al Ghiorso on nuclear forensics to lead off the Analytical Chemistry in Nuclear Technology symposium; the lively discussion about the successes and future of the Radiochemistry Education Award Program following the REAP symposium; and the standing room only crowds on Wednesday afternoon and Thursday morning (a record for the ACS?) for the Recent Advances in Molecular Imaging symposium.

As many of you may already know, DOE and NSF have requested that the Nuclear Science and Advisory Committee develop a long-range plan for nuclear science over the next decade. The charge letter to NSAC can be found at <http://www.er.doe.gov/np/nsac/nsac.html>. Many of you will be involved in the process of helping to develop input to the LRP through Town Meetings that are being set up by the Division of Nuclear Physics of the American Physical Society.

In addition to scientific issues, NSAC has requested that our Division work with the APS DNP to provide NSAC with information on education and the impact of nuclear science on society. As approved at the Business Meeting in San Francisco, I will be calling upon a number of you to help draft two white papers on these issues. The white papers will be posted on the Division website and open for comment prior to submission to NSAC.

Finally, as this is my last contribution to the newsletter as chair, I would simply remind you that the success of the Division depends upon the hard work of volunteers too numerous to list here. My thanks to those of you who are actively involved and I would encourage the rest of you to become involved. Our field and Division have much to contribute to the health, energy, and security challenges facing us today.

ELECTION RESULTS – Frank Kinard

The election results are:

Mark Stoyer (Lawrence Livermore National Laboratory) Vice-Chair Elect 2007 (will become Program Chair in 2009).

Dave Morissey (Michigan State University) Member-at-large, Executive Committee 2007 – 2009.

Once again, the elections were close. Over 150 members of the Division cast ballots. I would like to thank all of the candidates for participating and the election showed that all of the candidates had significant support in the Division.

FROM THE CHAIR-ELECT- Heino Nitsche

ACS SPRING MEETING- Chicago Chicago, IL, March 25 - 29, 2007

ACS Web Page for submission of Abstracts:
<http://oasys.acs.org/acs/233nm/nucl/papers/index.cgi>

The deadline for abstract submission is November 17, 2006.

ACS recently introduced "Presidential Thematic Programming" into their national meetings and one of the overarching multidivisional themes for the Chicago meeting is "Chemistry for a Sustainable Energy Future." DNCT has programmed eight symposia covering the closed nuclear fuel cycle. These symposia will cover both basic and applied science subjects. ACS promised scheduling coordination between the individual divisions, plenary lectures on the subject, as well as increased public exposure and press coverage.

President Bush has announced strong support for nuclear energy and the Global Nuclear Energy Partnership (GNEP) in his State of the Union address earlier this year. We are currently experiencing a renaissance of the field, and these are exciting times for nuclear and radiochemistry. In addition to the thematic programming, we also have some very exciting symposia scheduled. Please show your support by submitting abstracts, by attending the meeting, and by giving your students, postdocs, and staff the opportunity to attend. We look forward to seeing you in Chicago in March 2007.

A) ACS Presidential Thematic Programming of DNCT: Chemistry for a Sustainable Energy Future

1) Nuclear Fuels – Science, Development and Technology.

Organizer: Dr. Rudy Konings, European Institute for Transuranium Elements,

Karlsruhe, Germany,
Rudy.Konings@ec.europa.eu

2) Modern Nuclear Reactors - Improvements of Existing Technology and Generation IV Developments.

Organizers: Prof. Jasmina Vujic, University of California, Berkeley, Department of Nuclear Engineering, vujic@newton.berkeley.edu, Prof. Thomas J. Downar, Purdue University, Nuclear Engineering, thomas.j.downar.1@purdue.edu, and Prof. Brian D. Wirth, University of California, Berkeley, Department of Nuclear Engineering, bdwirth@nuc.berkeley.edu

3) Spent Nuclear Fuel Reprocessing - Future, Present, and Past National and International Experiences.

Organizers: Dr. Monica C. Regalbuto, Argonne National Laboratory (ANL), regalbuto@cmt.anl.gov, Dr. Bruce A Moyer, Oak Ridge National Laboratory (ORNL) moyerba@ornl.gov, and Dr. Michael Bronikowski, Savannah River National Laboratory, michael.bronikowski@srnl.doe.gov

4) Nuclear Transmutation - A Solution for Long-Lived Waste?

Organizers: Dr. Kimberly W. Thomas, Los Alamos National Laboratory (LANL), kwthomas@lanl.gov, and Dr. Sara Scott, LANL, sscott@lanl.gov

5) Nuclear Waste Forms - Current Solutions and Future Challenges.

Organizers: Prof. Sue B. Clark, Washington State University, Pullman, s_clark@mail.wsu.edu, Prof. Rodney C. Ewing, University of Michigan, Ann Arbor, rodewing@umich.edu, and Dr. William J. Weber, Pacific Northwest National Laboratory (PNNL), bill.weber@pnl.gov

6) Understanding Radionuclide Transport in the Environment -

Remediation, Nuclear Waste Disposal, and Long-term Stewardship.

Organizer: Dr. Daniel Kaplan, Savannah River National Laboratory (SRNL), daniel.kaplan@srnl.doe.gov, and Mavrik Zavarin, Lawrence Livermore National Laboratory (LLNL), zavarin1@llnl.gov, Cosponsored by Geochemistry Division.

7) Proliferation Issues Related to Advanced Nuclear Fuel Cycles

Organizers: Dr. Christine L. Hartmann-Siantar, Lawrence Livermore National Laboratory (LLNL), L-179, PO Box 808, 7000 East Avenue, Livermore, CA 94550, hartmannsiantar1@llnl.gov and Prof. Allison McFarlane, Dept. of Environmental Science and Policy, George Mason University, MS 5F2, 4400 University Drive, Fairfax, VA 22030, amacfarl@gmu.edu

8) Actinide and Fission Product Isotope Needs for Energy and National Security Programs

Organizer: Dr. Charles W. Alexander, Oak Ridge National Laboratory (ORNL), alexandercw@ornl.gov and Dr. Christopher McGrath, Idaho National Laboratory, PO Box 1625 MS-7113, Idaho Falls, ID 83415-7113, christopher.mcgrath@inl.gov

B) Divisional Programming:

9) Glenn T. Seaborg Award for Nuclear Chemistry Symposium, honoring Dr. Norbert Trautmann, Johannes Gutenberg University, Mainz, Germany.

Organizers: Prof. Jens-Volker Kratz, Johannes Gutenberg University Mainz, Institute of Nuclear Chemistry, Germany, jvkratz@uni-mainz.de and Prof. Heino Nitsche, University of California, Berkeley, Department of Chemistry and Lawrence Berkeley National Laboratory (LBNL), Nuclear Science Division, hnitsche@lbl.gov

10) Fast Automated Radiochemistry Separations In Fundamental and Applied Nuclear Chemistry.

Organizers: Dr. Dawn Shaughnessy, Lawrence Livermore National Laboratory (LLNL), shaughnessy2@llnl.gov, and Prof. Ralf Sudowe, University of Nevada, Las Vegas, Ralf.Sudowe@unlv.edu

11) Calixarenes: State of The Art and Perspectives.

Organizers: Dr. Lætitia Delmau, Oak Ridge National Laboratory, delmaulh@ornl.gov, and Dr. Dean Peterman, Idaho National Laboratory, dean.peterman@inl.gov, Sponsored by I&EC Division, Separation Science and Technology subdivision; cosponsored by Division of Nuclear Chemistry & Technology.

12) Chemical Evolution I: Chemical Change Across Space and Time

Organizer: Lori Zaikowski, Department of Chemistry, Dowling College, Idle Hour Boulevard, Oakdale, NY 11769; Jon M. Friedrich, Department of Earth and Planetary Sciences, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.

Sponsored by the Division of Chemical Education, cosponsored by Division of Geochemistry, and Division of Nuclear Chemistry & Technology.

Boston, MA, August 19 – 23, 2007

Nuclear Structure and Reactions in the Era of Radioactive Beams

Dr. Larry Phair (LBNL), LWPhair@lbl.gov, and Prof. Romualdo T. de Souza (Indiana U.) desouza@indiana.edu

Don't forget to send Roy Lacey your suggestions for our 2008 meetings in New Orleans, and Philadelphia.

COUNCILORS' REPORT- Joe Peterson
Councilors: Joseph R. Peterson and Elliot S. Pierce (Emeritus)
Alternate Councilor: Jeff Bryan

The ACS Council in San Francisco had a relatively light agenda, as there were no petitions for action to amend the Society's Constitution or Bylaws. As usual for fall meetings, Councilors elected members to serve on the Committee on Committees (ConC), the Council Policy Committee (CPC), and the Committee on Nominations and Elections (N&E). Council also heard reports from all the national officers and then from the elected committees, standing committees, and some of the other committees.

Council was officially informed that the final slate for 2007 President-Elect consists of Bruce E. Bursten (Univ. Tennessee, Knoxville), Bassam Z. Shakhshiri (Univ. of Wisconsin, Madison), Yorke E. Rhodes (New York Univ., retired), and James A. Walsh (John Carroll Univ., retired). The first two named candidates were selected by Council vote from the original list of four nominees submitted by N&E; the second two named candidates were added to the ballot via the petition process this past summer. Therefore the fall 2006 ACS national election will include four candidates for 2007 President-Elect, along with candidates vying for Directors from Districts I and V and for three Director-at-Large positions. Only Councilors will vote for the latter, because Directors-at-Large represent Council on the Board.

Council voted to accept the ConC recommendations, following their normal performance reviews, to continue the Committee on Public Relations and Communications, the Committee on Environmental Improvement, and the Committee on International Activities. In addition Council voted to change the status, with a modified charge, of the Committee on Community Activities from a Board

committee to a joint Board-Council committee. The Board had already approved this status change in June, but Council approval was required for it to take place.

The 30-minute Council discussion topic for this meeting was on ensuring the future of volunteer leaders in the Society and how to engage tomorrow's leaders today. The emphasis was on ways to get younger members more involved in the many leadership roles required to keep the Society moving forward.

The three petitions up for consideration only (no Council action taken) concerned bylaw changes to modify election procedures, permit prepayment of dues up to three years, and preclude members of N&E from becoming candidates for Director and President-Elect positions until at least one year after they leave N&E service. Unless withdrawn, these petitions will be voted on at the next Council meeting in spring 2007.

Joe continues his Society service as Chair of the Membership Affairs Committee (MAC), a member of the Members Insurance Trust Board, Chair of the Editorial Advisory Board of CHEMISTRY, and a member of the Board-Council Policy Committee Governance Review Task Force. He has been reappointed by 2006 President-Elect Katie Hunt as MAC Chair for 2007. This will coincide with his final year of service as your divisional Councilor (self-imposed term limit). Councilor Emeritus Elliot Pierce is still available for limited tasks in the DC area and confirms his heartfelt enthusiasm for the division.

SUMMER SCHOOL

From Ken Nash and Paul Mantica:

The renewal grant for the summer schools was submitted to DOE the first week of August. The dates for the Summer 2007

school (pending successful renewal of DOE funding) will be June 18-July 27. Flyers advertising the summer school will be distributed via email to Division Members in November. I would encourage all members to help recruit outstanding students to attend the summer schools.

ISEC 2008

International Solvent Extraction Conference ISEC 2008

The International Solvent Extraction Conference (ISEC) is the premier meeting of solvent extraction experts, bringing together scientists and engineers from around the globe every three years. The ISEC meetings began in 1962 and have been held worldwide in the USA, UK, Israel, Netherlands, France, Canada, Belgium, Germany, Russia, Japan, Australia, Spain, South Africa, and, most recently, in China in 2005. The North America meetings were held in Gatlinburg, Tennessee, USA in 1963; Toronto, Canada in 1977; and Denver, Colorado, USA in 1983. The ISEC 2008 will be held in Tucson, Arizona, USA, from 15-19 September 2008 and promises to continue the high standard set by these triennial meetings. Eight major topics that will be covered which will have multiple sessions are: Fundamentals; Novel Reagents, Materials, and Techniques; Nuclear Fuel Reprocessing; Hydrometallurgy and Metals Extraction; Analytical Applications; Biotechnology, Pharmaceuticals, Life-Science Products, and Organic Products; Process Chemistry and Engineering; and Petrochemical Applications. Conference tours to mining, and nuclear, pharmaceutical and other industrial sites are planned. Interested participants can access the conference web site for further details at www.isec2008.org or send an email to isec2008@ecs.syr.edu. Abstracts will be due by June 2007; information about abstract submission is also available on the website