



Division of Nuclear Chemistry and Technology
American Chemical Society

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NEWSLETTER JULY 2005

Newsletter Editor: Lætitia Delmau
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CHAIR'S REPORT – Kim Thomas

SEABORG AWARD

The ACS Grants and Awards Committee is giving our request for the G. T. Seaborg Award to become an award sponsored by our Division serious consideration and I expect that our request will be approved. This means that the Seaborg Award will continue to be administered through the ACS selection process and be presented at the annual awards banquet, but will be funded from our Division treasury. This represents an expense on the order of \$6000 per year.

SUMMER SCHOOL DIRECTOR SEARCH

We have received five completed applications for Director of our summer schools. The Executive Committee will begin evaluating these applications with a goal of making a final decision at the Washington DC meeting. All the candidates are well qualified and reflect a strong dedication to educating the next generation in our field.

WASHINGTON DC TECHNICAL PROGRAM

While the number of symposia is down for this meeting, those that are on the agenda promise to be exciting and stimulating. The symposium on Applied Modeling and Computations in Nuclear Science will run for three days and has been accepted for publication. The symposium on Nuclear Forensics is both timely and broad reaching and we kick off the meeting with Additional Aspects. There are also a number of symposia with we are co-sponsoring: Radioactive Tank Waste Pretreatment (I&EC), Sensors and Instrumentation for Counterterrorism (ANYL), Preparing for the Bright Future of Neutron Scattering in the US (ANYL).

As usual, our Executive Committee meeting will be held Sunday evening and the Division Business Meeting and Social will be held on Monday evening. We hope to see you there!

Applied Modeling and Computations in Nuclear Chemistry

<http://www.cofc.edu/~nuclear/2005WashingtonComputationSymposium.pdf>

Thomas M Semkow, Wadsworth Center, New York State Department of Health and SUNY, PO Box 509, Albany, NY 12201, tms15@health.state.ny.us

Additional Aspects of Nuclear and Radiochemistry

Kim Thomas, Chemistry Division, Mail Stop J515, Los Alamos National Laboratory Los Alamos, NM 87545 kwthomas@lanl.gov

Nuclear Forensics

Ken Moody, Analytical and Nuclear Chemistry Division, Lawrence Livermore National Laboratory, 7000 East Ave., Livermore, CA 94550, moody3@llnl.gov

Martine Duff, Savannah River Technology Center, Westinghouse Savannah River Company, Aiken, SC 29808, martine.duff@srs.gov

UPCOMING PROGRAMMING

PACIFICHEM 2005 to be held in Honolulu, HI December 15-20. Please contact Suresh Srivastava for details.

Atlanta and San Francisco (2006) are just around the corner. Dave Robertson is soliciting your participation as a symposium organizer for these meetings;

Heino Nitsche would love to hear from you for our 2007 meetings in Chicago and Boston.

FUTURE ACS NATIONAL MEETINGS

Divisional members who would like to organize a symposium at an upcoming ACS National Meeting should contact the appropriate program chair.

Program Chair for 2006: J. David Robertson (robertsonjo@missouri.edu)

Atlanta, GA, March 26 – 30, 2006

***Meeting the diverse needs of the 21st century nuclear science workforce:
A symposium by graduate student researchers in nuclear chemistry***

Paul Mantica, Michigan State University
Department of Chemistry and National
Superconducting Cyclotron Lab, S. Shaw
Lane, East Lansing, MI 48824,
mantica@msu.edu

Susan Lever, Department of chemistry,
University of Missouri, 601 South College
Avenue, Columbia, MO 65211
LeverS@missouri.edu

***Archaeological Chemistry: Analytical
Techniques and Archaeological
Interpretation***

Mike Glascock, University of Missouri
Research Reactor Center, University of
Missouri, Research park, Columbia, MO
65211, glascockM@missouri.edu

Nuclear Chemistry in Context

Co-sponsored with the Division of Chemical
Education
Contact: Yet to be determined

San Francisco, CA, Sept. 10 – 14, 2006

Additional or modified topics are encouraged!

***Investing in the Future: Radiochemistry
Education Award Program***

Craig Williamson, South Carolina
Universities Research and Education
Foundation, 07-1 Wall Street, Clemson, SC
29631, wcraig@clemson.edu

***Radioisotopes for Microbatteries and
MEMS***

Amy Duwel, Charles Stark Draper
Laboratory, Inc., 555 Wilson Boulevard, Suite
501, Arlington, VA 22209,
ADuwel@draper.com

Chemistry of Imaging Agents

Silvia Jurisson, University of Missouri, 601
South College Avenue, Columbia, MO 65211,
JurissonS@missouri.edu

REPORT ON NSAC ACTIVITIES

By Dave Morrissey for Kim Thomas

A meeting of the Nuclear Science Advisory Committee was held on June 15th, 2005 to review the report of the subcommittee charged to provide guidance on how to implement the 2002 Long Range Plan for Nuclear Physics given the unexpected large cut to the DoE nuclear physics budget put forth in the President's mid-February submission. The President set the FY06 budget a level 8.4% below that in the FY05 budget and continuation at the reduced (constant dollar) level until 2011. We all need to realize the large effect that such a large cut in the budget and continued flat funding would have on our community. Also, there would be no additional funds for major construction during this period in the President's budget.

The budget-response subcommittee was chaired by Prof. Robert Tribble (Texas A&M) and contained twenty-two members from across the nuclear physics community. The subcommittee was not charged to go through a traditional Long Range planning process. Rather, they collected information on the current status of the major thrusts of nuclear physics including programs at the major DoE facilities. The subcommittee worked rapidly to provide a report to NSAC and met the strict deadline of mid-June set by the agencies.

Paraphrasing from the Transmittal Letter: the Report states that in the last two decades major investments in scientific

infrastructure have made nuclear science in the U.S. the best in the world, with extraordinary new opportunities for research during the coming decade. The pre-eminence of U.S. nuclear science has also had a profound positive impact on our national security and has led to advances in medical science and other applications. The Report provides a survey of the physics at the frontiers of nuclear science, discussing recent achievements and the challenges for the future. The Report addresses the dire budget scenarios, finding that the two bleakest budgets (one of which is that put forward by the President) would lead to the near-term closing of RHIC or CEBAF without any scientific rationale. With deep misgivings, the subcommittee provides criteria for choosing between these two unique facilities, if circumstances beyond our control mandate such extraordinarily severe and irreversible measures. The Report emphasizes that such a development would constitute a major blow to the scientific competitiveness of our nation.

NSAC strongly urged the Office of Science to try to work to find the funds to avoid these dire prospects and, in fact, to restore nuclear science funding to the level of effort embodied in the 2002 Long Range Plan. More information including the actual charge to NSAC is available on the NSAC website: <http://www.sc.doe.gov/henp/np/nsac/nsac.html> and the full report of the Tribble-subcommittee will be available by the end of June, 2005.

NSAC plans to meet again before the end of the summer to receive a report from another advisory committee called NuSAG (neutrino science assessment group, joint with high-energy physics advisory panel) on its recommendations for the future of neutrino physics. The charge had requested a complete report by July of this year. Only the subcommittee that studies the large double

beta decay experiments will be ready to report at that time.

SERMACS 2006

Programming of interest to Division members is being organized by David Hobbs (David.Hobbs@srs.gov) for the 2006 ACS Southeast Regional Meeting (SERMACS 2006). SERMACS 2006 will be held in Augusta, Georgia on November 1-4, 2006 (Fri. - Sat.). Two of the planned symposia are "Recent Developments in Nuclear Fuel Cycle Processing" and "Radiochemical Separations in Nuclear Technology". These should be of specific interest to Division members at Savannah River but should also be of interest to many other members in the US and abroad. For more information on these two or other planned symposia please contact David or for general information see the SERMACS 2006 web site:

<http://www.sermacs2006.org/>

FROM THE ACS

The Committee on Nominations and Elections (N&E) is pleased to announce the slate of candidates that will appear on the fall 2005 ballot. They are:

For President-Elect – 2006

Mr. George E. Heinze, Retired, Robert Wood Johnson Pharmaceutical Research Institute, New Jersey

Dr. Catherine T. Hunt, Rohm and Haas Company, Leader, Technology Partnerships, Pennsylvania

Dr. John W. Kozarich, ActivX Biosciences, Chairman & President, California

For Directors-at-Large - 2006-2008

Dr. James D. Burke, Retired, Rohm and Haas, Pennsylvania

Dr. Edwin A. Chandross, Bell Labs, New Jersey

Dr. C. Gordon McCarty, Retired, Bayer Corporation; Adjunct Professor, University of South Carolina

Dr. Frankie K. Wood-Black, Conoco Phillips Incorporated, Oklahoma

For Director, District III - 2006-2008

Dr. Catherine C. Fenselau, University of Maryland, Professor of Chemistry

Dr. Madeleine M. Joullié, University of Pennsylvania, Professor

For Director, District VI – 2006-2008

Dr. Bonnie A. Charpentier, Genitope Corporation, Vice President Regulatory, California

Dr. Stanley H. Pine, California State University, Professor

FROM DNCT: CALL FOR NOMINATIONS

We are soliciting nominations of individuals interested in being on the ballot for the positions of "Executive Committee at Large" and for "Alternate Councilor". We welcome self nominations as well as conscriptions! Please send nominations to Kim Thomas as soon as possible!