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Division Councilor Emeritus ELLIOT S. PIERCE

Members-at-Large, Executive Committee ALICE C. MIGNEREY, 2006-2008 STEVEN W. YATES, 2004-2006

Division of Nuclear Chemistry and Technology American Chemical Society

DNCT WWW Home Page - http://www.cofc.edu/~nuclear

NEWSLETTER JANUARY 2006

Newsletter Editor: Lætitia Delmau Email: dnctnews-letter@yahoo.com

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FROM THE CHAIR - J. DAVID ROBERTSON

As the incoming Chair of the Division, I would first like to take the opportunity to thank my immediate predecessors Kim Thomas and David Morrissey for their leadership and for their assistance in helping me make the transition from Vice-Chair, to Chair-Elect, to Chair. In addition, I would remind us all that our volunteer organization depends upon the tireless efforts of individuals to numerous to list here. These volunteers make the organization work in everything from organizing symposia to coordinating programs at the summer school to making sure that the new Chair has input to the newsletter.

The program for the 231st National ACS meeting is set. Again, the diversity and strength of the Division is reflected in the full week of symposia with over 150 papers that range from archaeological chemistry to nuclear structure. Paul Garret has organized a symposium on Nuclear Structure in honor of the 2006 Glenn T. Seaborg award in Nuclear Chemistry being given to our colleague and former Division Chair, Steve Yates.

Paul Mantica and Susan Lever have put together a symposium that highlights the varied research of graduate students within our division and Mark Stoyer has organized a symposium that highlights the opportunities and challenges of the nuclear science workforce in the 21st century. And finally, Mike Glascock and colleagues have organized a symposium in archaeological chemistry that is cosponsored with the Division of the History of Chemistry.

The deadline for submission of abstracts for the 232nd National ACS meeting that will be held in San Francisco from September 10-14 is April 26. As in Atlanta, the Division will be sponsoring numerous symposia on a broad variety of topics and I hope to see many of you there.

ACS SPRING MEETING: ATLANTA 2006

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, 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, Research park, Columbia, MO 65211, glascockM@missouri.edu

21st Century Radiochemistry Opportunities: A Symposium Highlighting Nuclear Science Workforce Needs

Mark Stoyer, Lawrence Livermore National Laboratory, <u>mastoyer@llnl.gov</u>

Contemporary Frontiers in Nuclear Structure.

(Seaborg Award Symposium)
Paul Garrett, University of Guelph,
pgarrett@physics.uoguelph.ca.

In summary, I look forward to seeing many of you at the upcoming national meetings. Moreover, I hope to work with many more of you to ensure that we, the Division of Nuclear Chemistry and Technology, continue to support the needs of our members and respond to the opportunities and challenges presented to our field in the 21st century.

J. David Robertson, Chair, 2006

ELECTION RESULTS – FRANK KINARD

The elections were the closest since I have been Secretary of the Division. The election results are:

Roy A. Lacey (SUNY – Stony Brook) Vice-Chair Elect 2006 (will become Chair in 2008).

Jeff C. Bryan (University of Wisconsin- La Crosse)

Alternate Councilor 2006 - 2008.

Alice Mignerey (University of Maryland)
Member-at-large, Executive Committee 2006
– 2008.

The roster of Division officers is listed down the left edge of the front page, and is also available at

http://www.cofc.edu/~nuclear/officers.html

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Please refer to this roster whenever you wish to contact one of the division officers.

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.

CHANGES IN BYLAWS

In accordance with Bylaw IX of the Division of Nuclear Chemistry and Technology, the following proposed amendments to the Bylaws of the Division of Nuclear Chemistry and Technology are being distributed to the members of the Division. The Committee on Constitution and Bylaws of the American Chemical Society has examined the proposed amendments and finds them to be legal and consistent with the Society's documents. The primary motivation for the proposed amendments is to bring the titles of the officers of the Division of Nuclear Chemistry and Technology in line with the normal American Chemical Society titles for officers. The other proposed amendments were suggested by the Committee on Constitution and Bylaws to align the Division's bylaws with current Society documents.

The proposed amendments to the Bylaws will be voted on at the Business Meeting of the Division of Nuclear Chemistry and Technology which will be held at the 231st National Meeting of the American Chemical Society in Atlanta, GA. The Business Meeting will convene at 5:30 pm on Monday, March 27, 2006 in the Apollo room of the Wyndham Atlanta.

J. David Robertson, Chair, 2006

The revised bylaws are included in the following 8-page insert, and are also available at

http://www.nscl.msu.edu/~dnctnews/revisedbylaws.pdf in electronic form

*BYLAWS OF THE DIVISION OF NUCLEAR CHEMISTRY AND TECHNOLOGY OF THE AMERICAN CHEMICAL SOCIETY

November, 2005

BYLAW I Name and Objects

- 1. The name of this organization shall be the Division of Nuclear Chemistry and Technology of the AMERICAN CHEMICAL SOCIETY, respectively referred to hereinafter as the "Division" and the "SOCIETY."
- 2. The objects of the Division shall be those of the SOCIETY as specifically applicable in the field of nuclear chemistry and its technology. Nuclear chemistry is meant to include studies of nuclear properties and reactions, of interactions between nuclear phenomena and chemical systems, and of chemical properties of radioactive elements.
- 3. Nothing in these bylaws shall be inconsistent with the Charter, Constitution, and Bylaws of the SOCIETY.

BYLAW II Membership and Affiliation

- 1. Any member of the SOCIETY in good standing may become a Division member by submitting a written request to the Secretary of the Division and by payment of the established dues of the Division.
- 2. A National Society Affiliate of the SOCIETY may become a National and Affiliate of the Division upon written application to the Secretary of the Division and payment of the dues specified for National Society Affiliates. A National Society Affiliate shall have all the privileges of membership in the Division except voting for or holding an elective position of the Division, voting on articles of incorporation and bylaws, or serving as a member of the Division Executive Committee or equivalent policy-making body.
- 3. A person who is not a member or a National Society Affiliate of the SOCIETY may become a Division Affiliate upon written application to the Secretary of the Division and payment of the dues specified for Division Affiliates. A regularly matriculated student in chemical science may become a Division Affiliate upon written application to the Division Secretary and payment of any dues which that have been levied for this class of Division Affiliates. A person must reaffirm his full-time student status each year to retain this affiliation with the Division. A Division Affiliate shall have all the privileges of membership in the Division, as provided in the Division bylaws, except that of holding an elective position in the Division, voting on articles of incorporation and bylaws, or serving as a member of the Division Executive Committee or equivalent policy-making body, or voting for Councilor(s) or Alternate Councilor(s) of the Division.

^{*}Effective January 4, 1996. Approved, as amended, by the Committee on Constitution and Bylaws, acting for the Council of the American Chemical Society...

- 4. Division members may resign from the Division in good standing by submitting a written resignation to the Division Secretary during the year for which their dues are paid.
- 5. (A) A member of the Division who is in arrears in payment of dues for one (1) year shall be stricken from the rolls.
- (B) Divisions Affiliates and National Affiliates Society Affilities of the Division shall retain affiliate status only so long as payment is made of Division dues.
- 6. Members of the AMERICAN CHEMICAL SOCIETY who have emeritus status and who have been Division members for at least five years shall be continued as members of the Division, if they so desire, without payment of dues.

BYLAW III Officers

- 1. The officers of the Division shall be MEMBERS of the SOCIETY and shall consist of a Chair, a Vice-Chair-Elect, a Vice-Chair, a Secretary, a Treasurer, Councilors, and Alternate Councilors, all of whom shall be members of an Executive Committee, as provided for in the next section.these bylaws.. In the case of the Secretary and the Treasurer, the same person may hold these posts simultaneously.
- 2. (A) The duties of the Chair shall be to convene the Executive Committee at such times as are necessary to carry out the objectives of the Division, to preside over the meetings of the Executive Committee and to put into effect its decisions, to preside over general business meetings of the Division, to serve as chair of the Program Committee, and to appoint members of standing and special committees.
- (B) The duties of the Vice-Chair-Elect shall be to serve as Co-Chair of the Program Committee, to assist the Chair in whatever way the Chair or the Executive Committee may determine, and to assume the Chair's responsibilities in the event of the latter's absence from a meeting or inability to carry out the duties of Chair.
- (C) The duties of the Vice-Chair-Elect shall be to serve as Vice-Chair of the Program Committee, to assist the Chair and Vice-Chair-Elect in whatever way they or the Executive Committee may determine, and to assume the Vice-Chair-Elect's responsibilities in the event of the latter's absence from a meeting or inability to carry out the duties of Vice-Chair-Elect.
- (D) The duties of the Secretary shall be to keep a record of the proceedings of the Division and of the Executive Committee; to maintain a list of members; to notify members of Division meetings, committee meetings, election ballots, dues assessments, and other appropriate business; to carry out all assignments and responsibilities of that office as stated in the Constitution and Bylaws of the SOCIETY; and to assume the duties of the Chair, Vice-Chair-Elect, and Vice-Chair-Elect, and Vice-Chair in the event of their simultaneous absence from a meeting or inability to carry out their duties of office. The Councilors of the Division for the following year are to be certified by the Secretary to the Executive Director of the SOCIETY by December 1st each year. In the event a Councilor cannot attend a SOCIETY Council meeting, an Alternate Councilor must be certified by the Secretary to represent the Division.

- (E) The duties of the Treasurer shall be to collect, save, and disburse all Division funds and dues subject to Executive Committee approval; to maintain financial records of the Division; and to present a written financial report at the Annual Meeting of the Division. The Division financial records are to be available for an audit whenever so ordered by the Executive Committee.
- (F) The duties of the Councilors and Alternate Councilors shall be to represent the Division on the Council of the SOCIETY and to serve as members of the Executive Committee of the Division.

3. The Executive Committee

- (A) The Executive Committee shall be comprised of the administrative officers described in the previous section, these bylaws, two elected Members-at-Large, and the Immediate Past Chair. Subdivision chairs, if any, may serve as non-voting *ex officio* members of the Executive Committee.
- (B) The Executive Committee is responsible for setting the policy, directing the affairs, and arranging the meetings of the Division, subject to the action of the membership at business meetings or by mail ballots. The Executive Committee shall handle all affairs of the Division except amendments of bylaws, elections of officers, and other affairs specified in these bylaws. The Executive Committee is entrusted with any properties and assets that are owned by the Division.
- (C) The Executive Committee shall be convened one or more times a year by the Chair following appropriate notification by the Secretary of the time and place of such meetings.
- (D) The Chair shall convene the Executive Committee whenever requested by three or more of its members.
- (E) All actions of the Executive Committee shall be governed by a simple majority of its voting members present. If the same person is serving as Secretary and Treasurer, that person shall have only one vote in the Executive Committee.
- (F) A quorum of at least four of its members shall be necessary for the Executive Committee to conduct business. If at least three members do not agree to any action, the dissenting members may call for amail poll of the complete Committee, and a majority of the ballots received within a specified period not to exceed two weeks shall be necessary to support such action.

4. Terms of Office

- (A) The Chair, Vice-Chair-Elect, and Vice-Chair-Elect Chair-Elect and Vice-Chair shall serve in their respective offices for one year, at the end of which time the Vice-Chair-Elect and Vice-Chair-Elect Chair-Elect and Vice-Chair shall automatically succeed to the positions of Chair and Vice-Chair-Elect, respectively, while the Chair shall retire to serve on the Executive Committee for one year as the Immediate Past Chair.
 - (B) The Secretary and the Treasurer shall hold their offices for simultaneous periods of three years.
- (C) The Councilors, the Alternate Councilors, and the two Members-at-Large of the Executive Committee shall serve for three years and are eligible for reelection, the terms of office to be staggered to the maximum extent possible.

- (D) The Executive Committee shall fill by appointment for the remaining term of service any vacancy in office, other than that of Councilor and Alternate Councilor, which may arise for reasons other than the normal retirement of the incumbent. Vacancies in the positions of Councilor and Alternate Councilor shall be filled by the Executive Committee by interim appointment for the period up to the next annual election, at which time the Division shall choose a MEMBER to fill out the unexpired term, if any.
- (E) All terms of service <u>of elected officers of the Division</u> shall be based on <u>thea</u> calendar year commencing January 1st.

5 Elections

- (A) All officers and positions on the Executive Committee shall be filled by elections conducted by firstelass mail secret ballot sent by the Secretary to the Division members and Division Affiliates at least three weeks before the date specified for the return of the ballot to the Secretary for official counting. Division Affiliates may vote for all officers and positions on the Executive Committee except for Councilor and Alternate Councilor.
- (B) Election to any office shall be by simple plurality, with the Chair voting only when necessary to break a tie.
- (C) An annual election of officers is to be held in the summer of each year so that all ballots will be tabulated before the next meeting of the SOCIETY.
- (D) A special election ormail ballot for any purpose may be conducted any time it is authorized at a Division business meeting or by the Executive Committee.
- (E) A Nominating Committee of <u>no more than</u> three persons <u>including the Immediate-Past-Chair</u> shall be appointed by the Chair in the spring of each year to place on the ballot a slate of at least two candidates for each open office in any election. The committee shall obtain the consent of the nominees, and shall report to the Chair by June 15. The same person may be nominated for Secretary and Treasurer if the Executive Committee approves.
- (F) The slate of candidates chosen by the Nominating Committee shall be communicated to the Division members and Division Affiliates at least one month prior to the mailing distribution of the ballots. Additional nominations for any office shall appear on the ballot if supported by a written petition from twenty or more members of the Division. The petition must be received by the Secretary by July 15.

BYLAW IV Meetings

1. An annual business meeting of the Division shall be held at a national meeting of the SOCIETY. Division business requiring <u>a</u> vote of the membership shall be conducted only at this meeting, except as provided elsewhere in these bylaws.

- 2. Special business meetings of the Division may be called by the Executive Committee, provided notice is given to the membership by mail or through the official organ of the SOCIETY at least two months in advance. If business is to be conducted at such a meeting, the notice of the meeting shall state the exact nature of the business to be considered, and no other business shall be transacted at such special meetings.
 - 3. A quorum at a Division meeting shall consist of ten members.
- 4. Technical program meetings are to be authorized by the Executive Committee and arranged by the Program Committee. The Division shall hold at least one technical session annually; however, this requirement may be modified by the Executive Committee in accordance with the Bylaws of the SOCIETY.
- 5. Fees for registration at any Division meetings shall be determined by the Executive Committee subject to the Bylaws of the SOCIETY.

BYLAW V Dues

- 1. Members of the Division shall pay annual dues in an amount determined by the Executive Committee.
- 2. National Society Affiliates of the Division shall pay annual dues in an amount determined by the Executive Committee. Failure to pay such dues before January 1 of that year shall terminate the affiliation with the Division.
- 3. The annual dues of Division Affiliates shall be determined by the Executive Committee in accordance with the Constitution and Bylaws of the SOCIETY. Annual dues of Division Affiliates who are full-time students in a chemical science may be different from the dues of other Division Affiliates and shall be determined by the Executive Committee. Failure to pay such dues in advance shall terminate the affiliation of a Division Affiliate with the Division

BYLAW VI Committees

- 1. In addition to the Executive Committee and the Nominating Committee, as provided for in previous sections, these bylaws, there shall be a Program Committee of at least three members, with one being the Vice-Chair serving as Program Committee Chair, and the second being the Vice-Chair-Elect serving as the Program Committee Co-Chair. The CoVice-Chair. Program Committee is responsible for planning and carrying out the scientific programming at the National Meetings.
- 2. Special committees may be appointed at any time by the Chair with the approval of the Executive Committee. Upon recommendation of the Executive Committee, standing committees of the Division may be authorized or dissolved by a simple majority of the membership voting at a business meeting. The Chair shall appoint the members of such standing committees with the approval of the Executive Committee.
- 3. Service on all committees except the Executive Committee and standing committees shall be for no more than one year unless extended at the end of that time by the Executive Committee. However, a special

committee which has been charged with responsibility for an event <u>or completion of a task</u> more than one year in the future may be requested to continue its service until that event has occurred. The term of appointment on a <u>standingspecial</u> committee shall be for three years. The terms of members of such <u>standingspecial</u> committees shall be overlapping with one-third of such terms expiring at the end of each calendar year.

BYLAW VII Subdivisions

- 1. The Division may organize within itself a Subdivision in any specialized area of the general field of nuclear chemistry and technology. Each such Subdivision shall operate in conformity with the bylaws of, and shall be responsible to, the Division. Membership or affiliation in the Division shall be a requirement for participation in a Subdivision. Members and affiliates of the Division may join the Subdivision by request to the Secretary-Treasurer of the Subdivision.
- 2. A Subdivision shall be formed or discontinued only after an affirmative vote has been taken at a Division business meeting or bymail ballot. Steps to initiate a Subdivision may be taken by action of the Executive Committee, or by petition of at least twenty members of the Division to the Executive Committee. The scope of the activities of a Subdivision shall be defined and monitored by the Executive Committee of the Division.
- 3. Upon establishment of a Subdivision, the Executive Committee of the Division shall appoint a Chair, Chair-Elect, and Secretary-Treasurer, who are MEMBERS of the SOCIETY and the Division, and who will be members in the Subdivision, and who shall serve for the organizational year or until the next regular election of the Division. Thereafter, the Chair-Elect of the Subdivision shall succeed to the office of Chair of the Subdivision and the members of the Subdivision shall nominate and elect the remaining officers, who must be willing to serve in these positions. The officers, who shall be MEMBERS of the SOCIETY, shall be elected in accordance with election procedures for Division officers and their terms shall coincide with those of their counterparts at the Division level. The Chair of the Subdivision shall be a non-voting *ex officio* member of the Executive Committee of the Division and may appoint such committees as may be necessary to conduct the activities of the Subdivision. The Secretary-Treasurer of the Subdivision shall maintain a list of members and affiliates of the Subdivision and shall submit, periodically or as directed by the Executive Committee of the Division.
- 4. Upon proper authorization and verification of such expenses by the Subdivision officers, the expenses of the Subdivision shall be subject to approval by the Executive Committee of the Division when it is necessary to pay all or part of them from Divisional funds. Approved expenses are to be paid to the Subdivision. Funds earned or collected by the Subdivision, and expenditure thereof, shall be under the control of the Subdivision.

BYLAW VIII Presentation of Papers

- 1. The Executive Committee shall be responsible for the selection of papers to be presented at meetings of the Division. It may delegate this authority to an officer or a committee created for this purpose.
- 2. The rules for papers presented before meetings of the SOCIETY as outlined in the Bylaws and Regulations of the SOCIETY shall govern the Division.

BYLAW IX Amendments

1. A proposed amendment to these bylaws must first be submitted in writing to the Executive Committee. If it is approved by the Executive Committee, the Secretary shall furnish all members of the Division with copies of the proposed amendment at least eight weeks before the next business meeting of the Division at a national meeting of the SOCIETY.

At the meeting of the Division after notice of the proposed amendment(s) is given, the amendment(s) will be adopted if it receives an affirmative vote by two-thirds of the members present. Alternatively, thea ballot may be taken by a mailing distributed to all Division members. Two-thirds of the valid ballots received must be affirmative for adoption.

Any proposed amendment(s) not approved by the Executive Committee within 60 days from the time it is submitted thereto may be brought to a vote of the membership in the aforementioned manner by a petition signed by not less than fifteen percent (15%) of the members of the Division.

2. An amendment to these bylaws, after adoption by the Division, shall become effective upon approval by the Committee on Constitution and Bylaws, acting for the Council of the SOCIETY, unless a later date is specified in the amendment.

BYLAW X Dissolution

Upon the dissolution of this Division any of its assets remaining thereafter shall be conveyed to organizations dedicated to objects similar to those of the Division and the AMERICAN CHEMICAL SOCIETY, or to the AMERICAN CHEMICAL SOCIETY, so long as the organizations so selected by the governing body of the Division at the time shall be exempt under Section 501(c)(3) of the Internal Revenue Code of 1954 as amended or under such successor provision of the Code as may be in effect at the time of the Division's dissolution.

SUMMER SCHOOL

From Ken Nash and Paul Mantica: This year (2006) is the last year of the current contract with the DOE-OBES/OBER for DOE/ACS/DNCT Nuclear Chemistry Summer School. After conducting a search for a new Director of the NCSS program, Professor Paul Mantica of Michigan State University has been selected by the DNCT Executive Committee as next Director for the summer school. Paul is already engaged in discussions with DOE program managers regarding his plans for the next five-year cycle. Paul was selected from a pool of five highly qualified applicants who responded to an open call.

As to planning for the summer 2006 edition of the summer school, the solicitation has been distributed to the network of colleges and universities that publicize the opportunity to motivated students and updated at the website. Due to some determined working of the halls of DOE HQ, Lester Morss has been able to secure funds from OBER to allow us to continue to offer a stipend for the summer sessions which will again be held at Brookhaven National Lab and San Jose State University. Herb Silber continues as the SJSU Site Director while the new Director for the BNL site will be Dr. Richard Ferrieri who has 30 years experience in radiochemistry and presently is a senior investigator in the PET imaging group at BNL. We must acknowledge the outstanding contributions of Kathy Kolsky who has been the Site Director at BNL for the last 6 years. At Brookhaven in 2005, the NCSS was conducted in freshly rehabbed laboratory and instructional space. Frank Kinard continues as the principal instructor at the SJSU site. The BNL site has adopted a team-oriented approach to the instructional duties. involving several members of the DNCT as lecturers. Last year's pool of applicants produced 24 candidates of exceptional overall

quality. The outstanding students were Robin Johnson, Illinois Wesleyan University and Brooke Gardner, Middlebury College (Vermont). Their accomplishments will be recognized in Atlanta.

The application deadline for the 2006 Nuclear and Radiochemistry Summer School program is <u>February 1, 2006</u>. Division members are asked to identify and encourage outstanding undergraduate students to apply. Application materials are available at http://www.cofc.edu/~nuclear/nukess.html Successful applicants received an all-expense paid opportunity to complete the 6-week in summer course Nuclear Radiochemistry in either NY (Brookhaven National Laboratory) or CA (San Jose State University). Participants receive a stipend plus all tuition, fees, housing, travel, and other costs paid by the U.S. Department of Energy. For more information, please contact Prof. Sue Clark or Ken Nash, NCSS National Directors, Department of Chemistry, Washington State University, Pullman, WA 99164-4630 email: nuclear@wsu.edu

FUTURE ACS NATIONAL MEETINGS

Don't forget to send Heino Nitsche and Roy Lacey your suggestions for our 2007 and 2008 meetings in Chicago, Boston, New Orleans, and Philadelphia.

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

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

f Element Separations
sponsored by I&EC, co-sponsored by DNCT
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(see attached announcement)

Ken Nash (knash@wsu.edu), Dale Ensor and Bill Crooks.

30 years of Projectile Fragmentation
David Morrissey (morrissey@nscl.msu.edu)
(see attached announcement

Analytical Chemistry in Nuclear Technology

Charles Coleman, SRNL, Aiken, SC (charles02.coleman@srnl.doe.gov), Dave Hobart (dhobart@lanl.gov) and David Hobbs (David.Hobbs@srnl.doe.gov)

(see attached announcement

Investing in the Future: Radiochemistry Education Award Program

Michael G. Schmidt, Office of Special Programs, Medical University of South Carolina, <u>schmidtm@musc.edu</u>

Radioisotopes for Microbatteries and MEMS

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

Chemistry of Imaging Agents

Silvia Jurisson, University of Missouri, 601 South College Avenue, Columbia, MO 65211, <u>JurissonS@missouri.edu</u> Martin W. Brechbiel,, NIH <u>martinwb@mail.nih.gov</u> Program Chair for 2007: Heino Nitsche (hnitsche@lbl.gov)

Chicago, IL, March 25 – 29, 2007

Fast automated radiochemistry separations in fundamental and applied nuclear chemistry

Dr. Dawn Shaughnessy (LLNL), <u>shaughnessy2@llnl.gov</u>, and Dr. Ralf Sudowe (LBNL), <u>RSudowe@lbl.gov</u>

Boston, MA, August 19 – 23, 2007

Nuclear Structure and Reactions in the Era of Radioactive Beams

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

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 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/

CALL FOR PAPERS

Symposium on

Analytical Chemistry in Nuclear Technology American Chemical Society National Meeting

September 10-14, 2006

San Francisco, CA

General Organizers

Charles Coleman, Savannah River National Laboratory, Charles02.Coleman@srnl.doe.gov, (803) 725-1160 David Hobbs, Savannah River National Laboratory, David.Hobbs@srnl.doe.gov, (803) 725-2838 David Hobart, Los Alamos National Laboratory, dhobart@lanl.gov, (505) 667-0205

Deadline for Abstracts

150 word abstracts describing the paper are due by mid-April, 2006. Please consult the ACS web page <u>ACS.org/Meetings/Fall 2006</u> for the exact deadline for abstract submittals and instructions for submitting them electronically via the web. The ACS web site will be available for electronic abstract submissions starting in February 2006.

Nature of the Symposium

Analytical Chemistry in Nuclear Technology is an annual symposium held under the auspices of the Division of Nuclear Chemistry & Technology and co-sponsored by the Analytical Chemistry Division. The symposium is intended to provide focused sessions on several analytical technologies related to radiological and other hazardous materials and processes. Previous symposia have drawn a diverse mix of papers from laboratories associated with the Department of Energy and other government agencies, academic, international, and commercial institutions. Papers are solicited in all aspects of analytical chemistry related to the focused session topics. Contributors may also present papers that do not fall within the focused sessions in either the Nuclear Division General Session (oral presentations) or Sci-Mix Poster Session (please contact one of the symposium general organizers for more information).

Focused Sessions

Half-day sessions consisting of about eight 20-minute talks per session on research, development, and/or interesting applications will be held in the following focus areas:

- Developments and Applications of Laser-induced Ablation and Plasma Spectroscopy to Radiological and Hazardous Materials Organizer and Chair: Bruce Kaiser, Bechtel Corporation, bjkaiser@bechtel.com, (509) 371-4944.
- **Developments in Chromatography Methods** Organizer and Chair: Jim Campbell, Pacific Northwest National Laboratory, <u>James.Campbell@pnl.gov</u>, (509) 376-0899.
- Developments in Radiochemistry and Nuclear Counting Techniques Organizer and Chair: Lav Tandon, Los Alamos National Laboratory, tandon@lanl.gov, (505) 665-5458.
- Innovative Techniques and Analytical Applications in Nuclear Waste Processing, Separation Science, and Material Science Co-organizers and Chairs: Steve Serkiz, Savannah River National Laboratory, steven.serkiz@srnl.doe.gov, (803) 725-5422; Marsha Lambregts, Idaho National Laboratory, marsha.lambregts@inl.gov, (208) 533-7051; Krissy Zeigler, Savannah River National Laboratory, kristine.zeigler@srnl.doe.gov, (803) 725-4180.
- **Bio-remediation in Nuclear Environments** Co-organizers and Chairs: Amy Ekechukwu, Savannah River National Laboratory, amy.ekechukwu@srnl.doe.gov, (803) 725-1236; Chuck Turick, Savannah River National Laboratory, charles.turick@srnl.doe.gov, (803) 819-8407.
- **Process Gas Sensing Using Vibrational Spectroscopy** Organizer and Chair: Scott McWhorter, Savannah River National Laboratory, scott.mcwhorter@srnl.doe.gov, (803) 725-8130.

Call for Papers

Projectile Fragmentation, Thirty Years Later

A Symposium Sponsored by the Division of Nuclear Chemistry & Technology

At the 232nd ACS National Meeting

San Francisco, CA

September 10 – 14, 2006

Early studies of the projectile fragmentation process carried out at the BEVALAC in Berkeley indicated the promise of this reaction mechanism. The exciting experiments have lead to a mature technique that is the underlying production process for major nuclear science facilities around the world. The Division of Nuclear Chemistry announces a symposium to review of this important field similar to meeting held in Dourdon, France in 1992. Topics to be highlighted include:

- Advances in the theoretical modeling & experimental studies of projectile fragmentation
- The projectile fragmentation process and the formation of the most exotic isotopes
- Projectile fragments as tools for studies of nuclear properties and reactions
- Status of the current generation of fragment separators and the development of new devices
- Applications of fragmentation reactions in other areas of science, technology & medicine

Abstracts may be submitted online at: http://oasys.acs.org
Deadline for online abstract submission will be early May, 2006

Check the Nuclear Chemistry and Technology Division web site for updates: http://www.cofc.edu/~nuclear/

For additional information contact the organizer:

D.J. Morrissey; morrissey@nscl.msu.edu

Department of Chemistry and

National Superconducting Cyclotron Laboratory Michigan State University, East Lansing, MI 48824

Call For Papers:

Separations of the f-Elements

232nd National Meeting of the American Chemical Society San Francisco, CA September 10 – 14, 2006

Sponsored by the Separation Science and Technology Subdivision of the Industrial and Engineering Chemistry Division Co-sponsored by the Division of Nuclear Chemistry and Technology

Abstracts featuring traditional and emerging techniques for the separation of f elements are invited for this symposium. Papers will include basic research and applications development, and range from trace analytical scale to full process scale. Sessions will be organized to emphasize interactions between fundamentals and applications.

Areas of special interest are:

- Solid phase extractants
- Liquid—liquid extractions
- Advanced Fuel Processing (including non-aqueous methods)
- Development of analytical procedures
- Frontier areas of investigation

Organized by:

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Abstracts will be due in the Spring of 2006. At that time you should submit your abstract (preferably) using Online Abstract Submittal Form System (OASys) at www.acs.org/meetings/abstract/abinfo.html or directly to one of the organizers. Feel free to contact us to indicate your interest or to answer any questions.