



Division of Nuclear Chemistry and Technology  
*American Chemical Society*

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

**NEWSLETTER**  
**October 2008**

*Newsletter Editor: Lætitia Delmau*  
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**Topics**

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**FROM THE CHAIR – Roy Lacey**

The DNCT symposia for the 236th National meeting in Philadelphia are now successfully behind us. For this, I am especially indebted to;

- Bickley, J. Jia, A. C. Mignerey, J. D. Robertson, H. Nitsche, R. T. de Souza, W. U. Schröder, and S. Yennello (Frontiers of Nuclear Chemistry Research: A Graduate Student Research Symposium);
- Frank Kinard (25th Anniversary of the Nuclear Chemistry Summer Schools)
- J. Jia, and J. B. Natowitz (Symposium in Honor of the Scientific Career of John M. Alexander)
- Mark Stoyer (21st Century Radiochemistry Opportunities: Nuclear Science Workforce Needs)
- G. P. Halada, S. B. Clark, J. Gillow, and D. Chidambaram (Research Related to the Environmental Management Mission of the Department of Energy)

These outstanding symposia were all very well attended. The social gatherings in Honor of John Alexander and the “graduates” of the Nuclear Chemistry Summer School were also a delight. For this, I am especially grateful to the DNCT membership and the many family members, friends and colleagues who journeyed from afar to attend.

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Program Chair, 2008

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Councilor

**STEVEN W. YATES**, 2008-2010

[yates@uky.edu](mailto:yates@uky.edu)

Alternate Councilor

**JEFF C. BRYAN**, 2006-2008

Division Councilor Emeritus

**ELLIOT S. PIERCE**

Members-at-Large, Executive Committee

**ALICE C. MIGNEREY**, 2006-2008

**DAVID MORISSEY**, 2007-2009

It is my hope that the same level of support will be accorded to DNCT programs at future meetings.

Immediately following the Philadelphia meeting, I attended the NSAC meeting on behalf of the DNCT and learned that the Isotope Production Program will be transferred from the Office of Nuclear Energy to the Office of Science's Office of Nuclear Physics. More important is the fact that two NSAC subcommittees have been formed to:

- Consider broad community input regarding how research isotopes are used and to identify compelling research opportunities using isotopes.

- Conduct a study of the opportunities and priorities for ensuring a robust national program in isotope production and development, and to recommend a long-term strategic plan that will provide a framework for a coordinated implementation of the National Isotope Production and Applications (NIPA) Program.

I am hoping that the DNCT membership will see fit to contribute to this important endeavor.

The chairs for these subcommittees are Ani Aprahamian and Don Geesaman, who can be contacted at [aapraham@nd.edu](mailto:aapraham@nd.edu) and [geesaman@phy.anl.gov](mailto:geesaman@phy.anl.gov) respectively.

## UPCOMING NATIONAL MEETINGS

Salt Lake City, UT, March 22-26, 2009

[Atom-at-a-Time Chemistry](#) (Oral symposium #11956. ) Sponsored by Division of Nuclear Chemistry & Technology, Organizer: Roger A Henderson, Chemistry, Materials, Earth, and Life Sciences, LLNL, PO Box 808, L-236, Livermore, CA 94551, Phone: 925-422-0446, Fax: 925-423-1026, [henderson55@llnl.gov](mailto:henderson55@llnl.gov)

[The Glenn T. Seaborg Nuclear Chemistry Award Symposium in honor of Kenton J. Moody](#) (Oral symposium #11958) Sponsored by Division of Nuclear Chemistry &

Technology. Organizers: Dawn A. Shaughnessy, Chemistry, Materials, Earth, and Life Sciences, Lawrence Livermore National Laboratory, 7000 East Avenue, L-236, Livermore, CA 94550, Phone: 925-422-9574, Fax: 925-423-1026, [shaughnessy2@llnl.gov](mailto:shaughnessy2@llnl.gov). Ken Czerwinski, Department of Chemistry, University of Nevada, Las Vegas, 4505 Maryland Parkway, Box 454003, Las Vegas, NV 89154-4003, Phone: 702-895-0501, [czerwin2@unlv.nevada.edu](mailto:czerwin2@unlv.nevada.edu)

[Nuclear Forensics](#) (Oral symposium #11957) Sponsored by Division of Nuclear Chemistry & Technology, Cosponsored by Division of Industrial & Engineering Chemistry Organizers: Glenn A. Fugate, Savannah River Site, Savannah River National Laboratory, Building 735A, Aiken, SC 29808, Phone: 803-725-1590, Fax: 803-725-4478, [Glenn.Fugate@srnl.doe.gov](mailto:Glenn.Fugate@srnl.doe.gov). Judah I Friese, National Security Division, Pacific Northwest National Laboratory, 902 Battelle BVD PO Box 999, Richland, WA 99352, Phone: 509-376-1621, [judah.friese@pnl.gov](mailto:judah.friese@pnl.gov)

[Nuclear Method Applications in Nano-Science](#) (Oral symposium #11960) Sponsored by Division of Nuclear Chemistry & Technology, Organizer: John D. Robertson, Department of Chemistry, University of Missouri, 125 Chemistry Building, Columbia, MO 65211, Phone: 573-882-2240, Fax: 573-882-2754, [robertsonjo@missouri.edu](mailto:robertsonjo@missouri.edu)

[Nuclear Structure Using Rare Reactions](#) (Oral) Organizers: I-Yang Lee, Nuclear Science Division, Lawrence Berkeley National Laboratory, Building 88, 1 cyclotron Rd, Berkeley, CA 94720, Phone: 510-486-5727, Fax: 510-486-7983, [iylee@lbl.gov](mailto:iylee@lbl.gov). Mark A. Stoyer, N Division, Lawrence Livermore National Laboratory, L-414, Livermore, CA 94550, Phone: 925-423-3079, [mastoyer@llnl.gov](mailto:mastoyer@llnl.gov)

Washington, DC, August 16-20, 2009

The Fall 2009 program in Washington, DC is still being constructed. Possible symposia include:

Nuclear Energy  
Green Chemistry  
Graduate Student symposium  
Symposium in Honor of Jeffrey Hay  
Nuclear Fusion

As always I am looking for suggestions on other symposia and for organizers of symposia (in particular the Nuclear Fusion symposium).

Please do not forget to send Mark Stoyer (Program Chair 2009) your suggestions for the 2009 Spring and Fall meetings and Silvia Jurisson (Program Chair 2010) for the 2010 Spring and Fall meetings.

## **COUNCILOR'S REPORT**

*From Steve Yates*

Councilors: Steven W. Yates and Elliot S. Pierce (Emeritus)

Alternate Councilor: Jeff C. Bryan

### **AMERICAN CHEMICAL SOCIETY 236th ACS NATIONAL MEETING PHILADELPHIA, PA AUGUST 17-21, 2008**

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 2008 fall national meeting.

## **ACTIONS OF THE COUNCIL**

### **Election Results**

- The Committee on Nominations and Elections presented to the Council the

following slate of nominees for membership on the Committee on Committees beginning in 2009: George M. Bodner, Cherlynlavaughn Bradley, Rigoberto Hernandez, Roland F. Hirsch, Ann H. Hunt, James M. Landis, Carol B. Libby, Roger A. Parker, Howard M. Peters, and Sara J. Risch. By written ballot, the Council elected Cherlynlavaughn Bradley, Rigoberto Hernandez, James M. Landis, Howard M. Peters, and Sara J. Risch for the 2009-2011 term.

- The Committee on Nominations and Elections presented to the Council the following slate of nominees for membership on the Council Policy Committee beginning in 2009: R. Gerald Bass, Ray A. Dickie, Alan M. Ehrlich, Joseph A. Heppert, Pamela D. Kistler, Bonnie A. Lawlor, Mamie W. Moy and Eleanor D. Siebert. By written ballot, the Council elected Ray A. Dickie, Bonnie A. Lawlor, Mamie W. Moy, and Eleanor D. Siebert for the 2009-2011 term.

- The Council Policy Committee presented to the Council the following slate of nominees for membership on the Committee on Nominations and Elections: V. Dean Adams, Roger F. Bartholomew, W. H. (Jack) Breazeale, Jr., Donald J. Burton, Kenneth G. Caulton, Dwight W. Chasar, Peter K. Dorhout, Catherine C. Fenselau, Morton Z. Hoffman, Peter C. Jurs, William R. Oliver, Robert A. Pribush, Andrea B. Twiss-Brooks, and Angela K. Wilson. By written ballot, the Council elected W. H. (Jack) Breazeale, Jr., Peter K. Dorhout, Catherine C. Fenselau, Peter C. Jurs, and Andrea B. Twiss-Brooks for the 2009-2011 term; Angela K. Wilson for the 2009-2010 term; and Dwight W. Chasar for the remainder of a 2007-2009 term.

### **Candidates for President-Elect and Board of Directors**

- The candidates for the fall 2008 ACS national election were announced as follows:

#### **President-Elect 2009**

Joseph S. Francisco, Purdue University,  
West Lafayette, IN

Josef Michl, University of Colorado-Boulder,  
Boulder, CO

#### **Directors-at-Large – 2009-2011**

William F. Carroll, Jr., Occidental Chemical  
Corporation, Dallas, TX

Richard L. Deming, California State  
University- Fullerton, Fullerton, CA

Thomas R. Gilbert, Northeastern University,  
Boston, MA

Marinda Li Wu, Science is Fun! Orinda, CA

#### **Director, District III 2009-2011**

Pat N. Confalone, DuPont, Wilmington, DE

Alan B. Cooper, Schering-Plough Research  
Institute, Kenilworth, NJ

#### **Director, District VI 2009-2011**

Bonnie A. Charpentier, Metabolex, Inc.,  
Hayward, CA

Gary D. Christian, University of  
Washington, Seattle, WA

#### **Petition**

- The Council VOTED to accept the Petition on Society Affiliate Dues. The petition raises Society Affiliate dues to be equal to the (full) membership dues, while specifying that Society Affiliates are not subject to any of the discounts otherwise applicable to membership dues. To be valid, the petition next must be confirmed by the Board of Directors within 90 days, and will become effective five months following confirmation.

#### **Committee Review**

- As part of a regular review, the Council VOTED to continue the Committee on Chemistry and Public Affairs, and the Committee on Patents and Related Matters.

The Committee on Chemistry and Public Affairs is responsible for advice and recommendations for ACS action on public policy matters involving the chemical sciences and technologies. The Committee on Patents and Related Matters considers patents and other related items insofar as such consideration and possible action are appropriate under the Society's Charter.

#### **Registration Report and 2009 National Meeting Registration Fee**

- As of August 20, 2008, the ACS fall national meeting had attracted 13,800 registrants. Totals in select categories are as follows: Regular attendees 8,196; Students 3,087; Guests 481; Exhibit Only 546; and Exhibitors 1,490. In keeping with the objective of the National Meeting Long Range Financial Plan, previously approved by the Board of Directors and Council, the Meetings and Expositions Committee voted to support an increase of \$10 for the 2009 national meetings advance registration fee.

#### **Membership Activity**

- In 2007, the number of paid new members nominated by current ACS members was 1,559. Currently, there are 988 paid new member applications. The Society's Member-Get-a-Member program is on track to have its best year ever.

#### **Professional Employment Guidelines**

- The Committee on Economic and Professional Affairs submitted its latest version of the Professional Employment Guidelines for consideration. These guidelines offer a broad spectrum of recommended practices in employment for professional scientists and their employers. The Council will vote on the Professional Employment Guidelines at the 2009 spring meeting in Salt Lake City.

## **Revision of the Division Funding Formula and Formation of a New Division**

- After a motion to recommit failed, the Council VOTED, as recommended by the Divisional Activities Committee (DAC), to accept a revised division funding (allocation) formula. DAC reported that the formula improves clarity, offers simplicity, and rewards collaborative programming between divisions. The change will take effect in 2009 for 2008 activities.

- The Council also VOTED to approve the formation of the Probationary Division of Catalysis Science and Technology. The primary objective of this probationary division is to provide a “home” for the chemical science of catalysis within the ACS in a way that will also insure a continual connection between this science and the essential chemical technology of catalysis.

## **Special Discussion Item**

- A special discussion item was put on the Council agenda by President Bruce Bursten. The discussion focused on Achieving Sustainability (e.g., Energy, Water, Food): What can/should ACS do to address this key global scientific challenge? To kick off the discussion, ACS Board Chair Judy Benham invited Council to participate in identifying the challenges and developing solutions. She highlighted new and ongoing activities, such as the Global Challenges/Chemistry Solutions podcasts and related information, available online at [www.acs.org/globalchallenges](http://www.acs.org/globalchallenges). She also sought Council input on member involvement and ACS programming in support of Goal #3 of the Strategic Plan: "ACS will be a global leader in enlisting the world's scientific professionals to address, through chemistry, the challenges facing our world." Councilors engaged in a robust exchange, offering several useful comments

and suggestions to address how the Society might develop initiatives to address sustainability of the world's resources, including energy, water, and food. Thirty-five councilors offered a wide variety of suggestions, which will be studied. Councilors and others who have ideas should send them to [strategicplan@acs.org](mailto:strategicplan@acs.org).

## **ACTIONS OF THE BOARD OF DIRECTORS**

### **The Board's Standing and Special Committees**

- The Board of Directors received reports from its Executive Committee, and the Committees on Grants and Awards, Public Affairs and Public Relations, Professional and Member Relations, and Budget and Finance. On the recommendation of the Committee on Grants and Awards, the Board VOTED to approve nominees for the 2009 Perkin Medal and the 2009 Othmer Gold Medal. On the recommendation of the Committee on Professional and Member Relations, the Board VOTED to approve in principle a proposed alliance between the ACS and the RSC titled Research in Chemistry for Society/Sustainability (RICHES). On the recommendation of the Committee on Budget and Finance, the Board VOTED to include funding requests for the ACS Leadership Development System and ACS Green Chemistry Institute ® in the 2009 budget, and to accept the 2008 report from Program Review Advisory Group, as amended. The Board also accepted the recommendations from the 2008 Financial Planning Conference with one modification.

- The Board received a status report from its International Strategy Implementation Task Force and an update on plans for a Board-Presidential Task Force on Education. The International Strategy

Implementation Task Force is charged with implementing the recently approved Society international strategy, and the Board-Presidential Task Force on Education will attempt to answer the question: "What can a Society with 160,000 members uniquely do that can have a transformative effect on education in the United States?"

### **Strategic Issue**

- The Board of Directors continued its deliberations of the global scientific challenge Sustainability (e.g., energy, food, and water) and considered a proposed set of principles from the Committee on Environmental Improvement in this area. Addressing global scientific challenges is fundamental to strategic goal #3: ACS will be a global leader in enlisting the world's scientific professionals to address, through chemistry, the challenges facing our world.

### **The Executive Director/CEO Report**

- The Executive Director/CEO, along with several of her direct reports, updated the Board on the following items: the ACS Green Chemistry Institute® Strategic Plan; the Web Presence Initiative; emerging issues affecting the Society; recommendations resulting from the new IRS Form 990 filing requirements; and the activities of Chemical Abstracts Service, the Publications Division, and the Society's General Counsel. The emerging issues discussion was particularly vibrant as the ACS Board considered many of the key factors and trends that affect Society membership. As a follow-up to these reports the Board took several actions. The Board VOTED to amend its Regulations to conform with the new IRS Form 990 filing requirements; and on the recommendation of the Joint Board-Council Committee on Publications, the Board VOTED to approve the reappointment of several Society journal editors.

### **Other Society Issues**

- The Board received an update on its substantial progress toward achieving its 2008 goals, and discussed a draft of proposed 2009 goals. The Board concluded its session with introductions and briefings from several international dignitaries representing the Royal Society of Chemistry, the German Chemical Society, the European Association for Chemical and Molecular Sciences, the Canadian Chemical Society, the Mexican Chemical Society, and IUPAC.

### **SUMMER SCHOOL**

*From Paul Mantica:*

The 2008 ACS/DOE Nuclear and Radiochemistry Summer School program came to a close at the end of July. Initial comments received from the student participants noted a very positive experience. Contact information for these students can be obtained by email ([mantica@msu.edu](mailto:mantica@msu.edu)). Thanks to all DNCT members who helped with the summer school this year.

#### **2008 Outstanding Students:**

Nick Sharp (University of Missouri, Columbia) and Julie Spector (Brown University) were selected the 2008 Outstanding Students of the ACS Nuclear and Radiochemistry Summer Schools. Nick attended the SJSU school, while Julie was located at BNL. Both will be invited to attend the ACS National Meeting in Salt Lake City next April, and those present will be recognized at the DNCT Business Meeting.

#### **2009 Nuclear and Radiochemistry Summer School:**

The dates of the 2009 School will be Sunday, June 14 - Saturday, July 25.

On-line application forms will be available by November 1 on the Summer School website:

<http://www.cofc.edu/~nuclear/nukess.html>

An email reminder about the need for student recruiting will be sent to division members in mid-November. Please encourage your outstanding undergraduate students to apply to the program.

Questions, comments, or concerns 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](mailto:mantica@msu.edu)

## ANNOUNCEMENTS

### ***SERMACS and WRM 2008***

*From Donivan Porterfield:*

The Division will be providing support for the symposium on "Separations in Nuclear, Environmental and Medicinal Radiochemistry " at the upcoming ACS Southeast Regional Meeting in Nashville, TN on November 13 - 14, 2008. The organizers of that symposium are Dale Ensor (Tennessee Tech University) and Glenn Fugate (Savannah River National Laboratory). Information about that symposium is available on the SERMACS 2008 web site:  
[www.sermacs2008.org/](http://www.sermacs2008.org/)

The Division would also like to recognize the success of Ken Czerwinski and Ralf Sudowe (University of Nevada Las Vegas) and Mike Ketterer (Northern Arizona University) in organizing the following respective symposia at the ACS Western Regional Meeting in Las Vegas, NV on September 24-26, 2008: Radiochemistry in the Advanced Nuclear

Fuel Cycle; Nuclear Forensics and Chemical Techniques; and Counting Atoms and Decays: Measurements and Applications in Environmental Radiochemistry.

Through such ACS regional meetings Division related programming is accessible to those who can't always attend an ACS national meeting.

### ***C&E News Article***

Check out the C&E News article (Issue of Sept. 9) about nuclear and radiochemistry training by Linda Raber. Paul Mantica, Steve Yates, and Sylvia Jurisson are all quoted in the piece.

### ***Job posting***

As part of an ongoing expansion program, the SCHOOL OF CHEMISTRY AND BIOCHEMISTRY of the GEORGIA INSTITUTE OF TECHNOLOGY seeks to fill several tenure-track faculty positions. Exceptional candidates at all levels and in all areas are encouraged to apply. We are particularly interested in candidates in analytical, organic, and inorganic fields. Candidates with interdisciplinary interests will be considered for joint appointments with other departments. Further information is available on our Web site ([www.chemistry.gatech.edu](http://www.chemistry.gatech.edu)). Candidates at the entry level should send an application letter, curriculum vitae, a summary of research plans, and three letters of reference. Advanced candidates should send a curriculum vitae and the names of three references. All materials and requests for information should be sent to: Chair of the Search Committee, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332-0400. Applications will be considered beginning October 17, 2008 until the positions are filled. Georgia Tech is an equal education/employment opportunity institution.

## Election of Officers for 2009

The election ballots for Division officers to be elected for 2009 should go out the week of October 6. ***It is important that all ballots be returned by November 10, 2008.*** The listing of candidate biographies and on the ballot was determined by alphabetical order. According to Division By-Laws, only ACS members can vote for the position of Alternate Division Councilor. Separate ballots are mailed to Division Affiliates and Associates. An independent teller will receive the ballots and report the outcome to the Division Secretary. If you prefer, you may place the ballot postcard in an envelope and address it to the Teller. Thank you for your participation in this important Division activity.

### Candidates for Vice-Chair Elect (Chair 2011)

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**MICHAEL G. BRONIKOWSKI, SRNL** (michael.bronikowski@srnl.doe.gov), was educated at Marquette University (BS, Chemistry, 1984) and Purdue University (Ph.D., Nuclear Chemistry, 1994) where he studied ultra relativistic heavy ion reactions. He took a postdoctoral appointment at Florida State University (1995-1998) where he studied actinide complexation with organic ligands in concentrated brine. In 1998 he joined the staff at SRNL as a senior scientist in the actinide technology section and is now a principal scientist (2004-present) in the actinide separations programs. He holds positions as an Adjunct Assistant Professor in the Department of Environmental Engineering and Earth Sciences at Clemson University (2000-present) and as an Affiliated Faculty for the South Carolina State University radiochemistry program (2006-present), where he helps teaching a radiochemistry summer course. He serves on the Environmental Health Physics Advisory board (2005-2009) at Clemson. He has held elected positions in the ACS Savannah River local section 2006-present (Chair, 2007). During this time the section ran SERMACS, and won luminary awards for "outstanding performance by a local section (2006)" and the "ACS Presidents award for local government affairs (2007)". On the ACS national level he has been a DNCT member since 1986, an IE&C member since 1996, has Co-organized a DNCT divisional symposia, and worked on the DNCT "strategic plan" (2007). Research interests: Nuclear reactions, radiochemical separations, as well as separations, process, and environmental chemistry of the actinides.

**JENNIFER JO RESSLER, PNNL Ressler**, (jennifer.ressler@pnl.gov), was educated at the University of Minnesota (BS, Chemistry, 1996) and the University of Maryland (Ph.D., Nuclear Chemistry, 2001). She participated in the DOE/ACS Nuclear Chemistry Summer School at San Jose in 1995 (as a student) and 1996 (as a teaching assistant). She took a postdoctoral appointment at Yale University following her Ph.D. in 2001. In 2004 she joined the Chemistry faculty at Simon Fraser University, then moved to Pacific Northwest National Laboratory as a research scientist in 2006. At PNNL, she is part of the National Security Directorate, working with the Radiation Detection and Nuclear Science group. From 2005 - 2006 she was a member (elected) of the User Executive Committee of TRIUMF (BC, Canada) and User Executive Committee of the National Superconducting Cyclotron Laboratory (Michigan State University, East Lansing, MI). Her research interests include nuclear structure, radioactive decay and applications relevant to national security.

### Candidates for Member-At-Large Executive Committee (2009 – 2011)

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**ABIGAIL BICKLEY, Michigan State University** (bickley@nscl.msu.edu), was educated at Dartmouth College (BA, Chemistry, 2000) and is a graduate of the Nuclear Chemistry Summer School program at San Jose State University (1999). She received her graduate degree from the University of Maryland, College Park (Ph.D., Nuclear Chemistry, 2004) where she worked with the Phobos Collaboration studying the particles produced in relativistic heavy ion collisions. Abigail completed a post-doctoral fellowship with the University of Colorado, Boulder during which time she worked with the PHENIX collaboration at RHIC. In 2007 she joined the faculty of the Chemistry Department at Michigan State University and works at the National Superconducting Cyclotron Laboratory. Abigail has served as a lecturer at the Nuclear Chemistry Summer School at Brookhaven National Laboratory and the Physics of Atomic Nuclei Program at NSCL. She has also served on the DNCT's Strategic Planning Committee, 2007. Abigail's research interests include studying particle production in intermediate through relativistic energy heavy ion collisions to gain a better



understanding of the nuclear equation of state. She is also a member of the American Physical Society and Sigma Xi.

**ALICE C. MIGNEREY, University of Maryland** (mignerey@umd.edu); B.S., 1971, University of Rochester; Ph.D., 1975, University of Rochester; Postdoctoral Fellow, University of Rochester, 1975-76; Postdoctoral Research Associate, Argonne National Laboratory, 1976-1979; University of Maryland: Assistant Professor, 1979-1984; Associate Professor, 1984-1989; Professor 1989 - present; Program Officer for Nuclear Physics at the National Science Foundation 1998-2001. Awards: Dreyfus Teacher-Scholar Award, 1984; Distinguished Scholar-Teacher Award, University of Maryland, 1988. Recent service to Scientific Community: Member ACS, APS; Nuclear Science Advisory Committee (NSAC), 1988-92 and 2001-2005; National Academy of Science Committee in Nuclear and Radiochemistry, 1992-93; organized Winter Workshop on Nuclear Dynamics, 1995 and 1997. Service to ACS, Division of Nuclear Chemistry and Technology: Chair of Division 1998; Member-at-Large; organized symposia in Accelerator Mass Spectrometry, San Francisco, 1992, Anaheim 1995. Research Interests: relativistic and ultra-relativistic heavy-ion reaction dynamics; member PHOBOS and PHENIX collaborations at RHIC and CMS-Heavy Ions at the LHC; other interests include applications of accelerator mass spectrometry (AMS). Also recently served on the Executive Committee and Program Committee of the Division of Nuclear Physics of the APS.

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#### **Candidates for Alternate Councilor (2009 – 2011)**

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**JEFF C. BRYAN, Department of Chemistry, University of Wisconsin – La Crosse**, (bryan.jeff@uwlax.edu). A.B. Chemistry, University of California, Berkeley, 1982; Ph.D., Inorganic Chemistry, University of Washington, 1988; Postdoctoral Research Associate, University of Auckland, 1988-1989; Postdoctoral Fellow and Staff Member, Los Alamos National Laboratory, 1989-1994; Research Staff Member, Oak Ridge National Laboratory, 1994-2002; Assistant Professor, University of Wisconsin – La Crosse, 2002-2005. Associate Professor University of Wisconsin – La Crosse 2005-present. Responsible for nuclear, analytical, and general chemistry, as well as radiation physics instruction. Service on university and department committees. Research leading toward the development of new radiopharmaceuticals and nuclear science educational materials. Director, Nuclear Medicine Technology program, University of Wisconsin – La Crosse, 2005-present. Administration of a B.S. major for ~130 students. Responsible for advising, curriculum, outreach, program management, and liaison with six internship sites. HONORS: Polyhedron Best Paper award, 1989; Research featured on the covers of several journals and one book, ORNL Chemistry Division Contribution award, 2002, WKBT Top Notch Teacher for May 2005. MEMBERSHIPS: American Chemical Society, Society of Nuclear Medicine, American Crystallographic Association. PUBLICATIONS: 110 research articles, 1 book chapter, 1 encyclopedia article, 1 textbook (*Introduction to Nuclear Science*).

**DAWN A. SHAUGHNESSY, LLNL** (shaughnessy2@llnl.gov), was educated at the University of California, Berkeley (BS, Chemistry, 1993 and Ph.D., Nuclear Chemistry, 2000). She took a postdoctoral appointment at Lawrence Berkeley National Laboratory in 2000. In 2002, she joined the staff at LLNL, where her assignments have included Staff Radiochemist (2002-present); Principal Investigator for Heavy Element Research (2005-present); and Acting Program Element Leader for Stockpile Radiochemistry (2008). She has served on the Lawrence Berkeley National Laboratory Nuclear Science Education and Wall Chart Committee, 2003-2005; Local Organizing Committee, 2<sup>nd</sup> International Conference on the Chemistry and Physics of the Transactinides (TAN03), 2002-2003; Interlaboratory Working Group Meeting (ILWOG-39) 2004 Planning Committee, 2003-2004; NNSA Radiochemist Development Working Group, 2004; Interlaboratory Working Group Meeting (ILWOG-40) 2007 Planning Committee (Lead Organizer), 2006-2007; Interlaboratory Working Group Meeting (ILWOG-41) 2008 Planning Committee, 2007-present; LLNL Glenn T. Seaborg Institute (Science Deputy), 2008-present. In the ACS she has co-organized 2 divisional symposia. Research interests: nuclear and chemical properties of the actinide and trans-actinide elements, spontaneous and delayed fission properties, target preparation and radiochemical separation techniques, and the behavior of radioactive contaminants in the environment.