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American Chemical Society

NUCL WWW Home Page – http://www.cofc.edu/~nuclear

NEWSLETTER
July 2010

Newsletter Editor: Lætitia Delmau
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Topics

>FROM THE CHAIR
>NATIONAL MEETINGS – Spring and Fall 2011
>SUMMER SCHOOL
>JOB OPENINGS
>IPG GRANT
>ISEC 2011

FROM THE CHAIR – *Silvia Jurisson*

It's hard to believe but the Fall ACS meeting in Boston (22-26 August) is fast approaching. There are 5 symposia scheduled at this meeting and I have listed the days and times for which each is scheduled in the Boston Convention Center (BCEC) in Rooms 109A and 109B:

(1) Applications of Radionuclides in Imaging and Therapy. Organizers: A. Packard and M. Lewis. (Wednesday (BCEC 109A) and Thursday (BCEC 109A) morning, Thursday (BCEC 109A) afternoon)
(2) Aqueous Chemistry and Thermodynamics of Actinides and Fission Products: A Tribute to Volker Neck. Organizers: D. L. Clark, S. B. Clark, H. Geckeis, T. Fanghaenel, and H. Nitsche. (Wednesday BCEC 109B) and Thursday (BCEC 109B) morning)
(3) Graduate Student Symposium in Nuclear and Radiochemistry. Organizers: J. D. Robertson and P. Benny. (Sunday (BCEC 109B), Monday (BCEC 109B) and Tuesday (BCEC 109B) morning)
(4) New Directions in Radiochemistry, Isotope Production and Nuclear Forensics supported by the DOE. Organizers: P. Srivastava, M. Welch, C. Williamson, J. Pantaleo and D. Phillips. (Radiochemistry: Sunday (BCEC 109A) and Monday (BCEC 109A) afternoon; Nuclear Forensics: Sunday afternoon

(BCEC 109B); Isotope Production: Tuesday BCEC 109A) and Wednesday (BCEC 109A) afternoon)
(5) Radiochemistry at the Facility for Rare Isotope Beams. Organizers: M. Stoyer and P. Mantica. (Sunday (BCEC 109A), Monday (BCEC 109A) and Tuesday (BCEC 109A) morning)
http://www.cem.msu.edu/~mantica/radio-frib/

The Executive Committee meeting is scheduled for Sunday, 22 August at 6 pm in BCEC Room 101. The Business meeting is scheduled for Monday, 23 August at 5 pm (BCEC 109B) with the Division Social Hour following at 5:30 pm (or when we finish the Business meeting) in BCEC Room 150. These are all scheduled for the Boston Convention Center.

The Executive Committee would like to identify a Program Chair for the ACS meetings separate from the Chair of the NUCL division. The Program Chair would be responsible for setting up the programming for the National ACS meetings; the Executive Committee felt that it would give more continuity to the programming of the NUCL division if the position did not rotate every year with the new incoming Chair. It will also give the Chair of the NUCL division time to take care of more division business besides setting up the national meetings. If anyone is interested in this position, please contact me or Michael Bronikowski (our next Chair). This will be an agenda item.

It is with great pleasure that I inform you that Professor J. David Robertson from the University of Missouri and Professor Joe Natowitz from Texas A&M University were selected as an ACS Fellows in 2010. Congratulations to both of them!

It is with sadness that I report on the passing of one of our colleagues in the nuclear field. Ken Hulet, the NUCL Chair in 1987 and the ACS Nuclear Chemistry Award winner in 1994, has passed away. Notification of his passing can be found at http://www.contracostatimes.com/ci_15412663?nclick_check=1.

As always, we welcome new programming suggestions for future meetings. Please feel free to contact Mike Bronikowski with your ideas for 2011 and Ken Nash with 2012 ideas.

I hope you are all having a nice summer and I'll look forward to seeing you in Boston in August.

Silvia S. Jurisson
2010 Chair, NUCL

2011 International Chemistry Year

Spring and Fall symposia are being set up. If you have a symposia idea or you would like to help in organizing a symposia contact Michael Bronikowski or the organizers below.

The 2011 Spring program has the theme
"Chemistry of Natural Resources"
Anaheim, CA March 27-31, 2011

(1) Actinide Materials: Complexity, Nanostructural, and Extreme Environments Ginger Sigmon, University of Notre Dame, 156 Fitzpatrick Hall, Notre Dame, IN 46556, (574)-631-538 gsigmon@nd.edu, Peter C. Burns, University of Notre Dame, 156 Fitzpatrick Hall, Notre Dame, IN 46556 (574)-631-5380 pburns@nd.edu, Rod Ewing, University of Michigan, 2534 C.C. Little Bldg.,1100 N. University Avenue, Ann Arbor, MI 48109-1005, (734) 763-9295 rodewing@umich.edu Alex Navrotsky, University of California at Davis, One Shields Avenue, Davis, CA 95616 (530) 752-3292 anavrotsky@ucdavis.edu .

(2) Chemistry of Nuclear Fuels in Energy Production Co- sponsored with the Fuel Division, contact Velu Subramani, BP Products North America, Inc.,Refining and Logistics Technology, 150 West Warrenville Road, Bldg: 701, Office # 1131, Naperville, IL 60563, Phone: (640) 420-5583, velu.subramani@bp.com Laetitia Delmau, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6119 delmaulh@ornl.gov, Dean R. Peterman, Idaho National Laboratory, P.O. Box 1625, Idaho Falls, ID 83415-6152, (208) 533-7452 Dean.Peterman@inl.gov.

(3) Recent Developments and Future Perspectives for Heavy Element Chemistry Ralph Sudowe, UNLV, Dept. of Health Physics and Diagnostic Sciences, 4505 S. Maryland Parkway, Las Vegas, NV 89154, (702)- 895-5964, ralf.sudowe@unlv.edu, Roger Henderson, LLNL, P.O. Box 808, Livermore CA 94551, henderson55@llnl.gov

(4) Seaborg Award. To be determined.

The 2011 Fall program has the theme "Chemistry of Air, Space, and Water" Denver, CO August 28-Sept. 1, 2011

(1) Women of Nuclear Chemistry In recognition of the 100th anniv. of Madame Curie's Nobel prize in chemistry. Dawn Shaughnessy, Chemical Sciences Div., LLNL P.O. Box 808, L-236 Livermore CA 94551, Phone: (925) 422-9574, shaughnessy2@llnl.gov, Darleane Hoffman, Professor of the Graduate School, University of California Berkeley, LBL 70-319 , (510) 486-4474 hoffman@lbl.gov

(2) Graduate Chemistry Symposium. Brian Powell, Clemson University, L.G. Rich Environmental Engineering Laboratory, Anderson SC 29625, (864) 656-1004, bpowell@clemson.edu, Ken Czerwinski, UNLV, 4505 Maryland Parkway, Box 454003 Las Vegas, Nevada 89154, (702) 895-3094, czerwin2@unlv.nevada.edu, Nathalie Wall, Washington State University, Chemistry Dept. Fulmer 628A, PO Box 644630, Pullman WA 99164, (509)-335-8917, nawall@wsu.edu

(3) Analytical Chemistry. in Nuclear Technology Chuck Coleman, SRNL, Aiken SC 29803, charles02.coleman@srnl.doe.gov, (803)-725-1160, David Hobbs david.hobbs@srnl.doe.gov, SRNL, Aiken SC 29803, (803)-725-2838, David Hobart, LANL, (505)-667-0205, dhobart@lanl.gov

(4) Nuclear Chemistry in Space. Stephen Johnson, Director of Space Nuclear Systems and Technologies, INL, Mail Stop 6122, Idaho Falls, ID 83415, (208)-533-7496, Stephen.Johnson@inl.gov

(5) Medical/Radiopharm. Lynn Francesconi, Hunter College, NY, NY 10065, (212)-772-5353, lfrances@hunter.cuny.edu, Paul Benny, Washington State University, Chemistry Dept. Fulmer 639 C, Pullman, WA 99164 (509)-335-3858, bennyp@wsu.edu

(6) Nuclear Reactions. Walt Loveland, OSU, Chemistry Dept., 153 Gilbert Hall, Corvallis, OR 97331, (541)-737-7078, lovelanw@onid.orst.edu, Todd Bredeweg, LANL, toddb@lanl.gov, Romualdo de Souza, Indiana University, Bloomington IN 47405, (812)-855-5767, desouza@indiana.edu, Sherry Yennello, Texas A&M, College Station, TX 77843, (979)-845-1411, yennello@comp.tamu.edu

SUMMER SCHOOL

From Paul Mantica:

The 2010 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://kinardf.people.cofc.edu/NuclearSummerSchool/NSSHomepage.htm

Dr. Richard Ferrieri serves as Site Director at Brookhaven National Laboratory. The lecture assignments are divided weekly among visiting instructors. The 2010 lecturer lineup includes Cody Folden (Texas A&M U.), Dave Robertson (U. Missouri), Paul Mantica (Michigan State U.), Jiangyong Jia (SUNY Stony Brook), and Ken Czerwinski (U. Nevada - Las Vegas). The BNL program is available for viewing at:

http://www.bnl.gov/ncss

Recruiting:
It is never too early to start identifying possible candidates for next year's program. We anticipate accepting applications for the 2011 ACS Nuclear and Radiochemistry Summer School program beginning in November 2010. If you have undergraduate students working on research activities, talk to them about the program and encourage them to apply in the Fall.

Renewal Grant:
As announced in the last newsletter, Dave Robertson has been selected as the next National Director of the Nuclear and Radiochemistry Summer Schools. Dave will lead the preparation and writing of the next 5-year renewal grant for the Summer Schools, which will be due in August 2011.

As always, any questions regarding the Summer School program can be directed to:

Paul Mantica
National Director, ACS Nuclear and Radiochemistry Summer Schools
Michigan State University
East Lansing, MI 48824
Phone 517-908-7456
FAX 517-353-5967
email mantica@msu.edu

JOB OPENINGS

Post Doctoral Position at SRNL

Looking for US citizen candidates to conduct applied R&D in radiochemical separations for nuclear forensics forensic work. Required experience with solvent extraction and chromatography separations and handling of radioactive materials. A strong background in actinide solution chemistry is preferred. Experience with a wide range of analytical instrumentation is a plus. Candidates should have a PhD in chemistry, oceanography, or environmental engineering and the ability to obtain DOE clearance. For more information or to submit CVs, please contact Alyson Hutson (alyson.hutson@srs.gov)

Nuclear Chemist at KAPL

Nuclear Chemist
The Nuclear Chemist will be an integral part of the daily operations in the Radiochemistry Counting Facility. This facility is used for the analysis of environmental samples, radioactive test specimens, and historical samples associated with the past operations of the Knolls Site. The day to day operations involve sample analysis using primarily gamma-ray spectroscopy, but additional analysis by alpha spectroscopy, liquid scintillation counting or gross beta/alpha counting may also be performed. In addition, the Nuclear Chemist will support gamma-ray spectroscopy methods development and instrumentation at various Naval Reactors

(NR) locations. Occasional travel will be required for this position.

Selected applicants will be subjected to a federal background investigation and must meet eligibility requirements for access to classified matter. U.S. citizenship is required. To see this and other job openings at Knolls Atomic Power Laboratory, please visit
www.knollslab.com/careers.html<http://www.knollslab.com/careers.html>.
Job Requirements :

MS degree in Nuclear Chemistry, Radiochemistry or Physics with experience with gamma-ray spectroscopy, alpha spectroscopy and column separation techniques. Ability to travel to other NR facilities throughout the US is required. 5 - 10 years of experience.

Other Skills : PhD in Nuclear Chemistry, Radiochemistry or Physics. ICP-MS, LSC, gross radiation counting techniques, experience with Canberra industry software, database programming and Visual Basic programming. Radioactive counting lab experience.

IPG GRANT

Our division has been selected as a finalist for the following ChemLuminary Award - Outstanding Collaboration between a Local Section and Division. The selection is an outcome of the Divisions Innovative Project Grant for Divisional Enhancement on the joint proposal "Revitalization of the Living Periodic Table of Elements" with the Savannah River Local Section. (See previous NUCL newsletter or local section ACS site). The winners will be awarded at the 240th national meeting in Boston August 24th.
Progress since the last newsletter: The new cabinate drawers for elements up to 118 have been installed, interior lighting is next. We are still seeking donations of signed papers or memorabilia for the elements 97 to 118. Feel free to pester your NUCL Division colleagues. The most recent acquisition is a copy of "The Elements beyond U" signed by Glenn Seaborg. We expect to wrap-up the project in Dec. 2010 and have an event for the grand unveiling of the revitalized Periodic Table in Jan. 2011 during the International Year of Chemistry. To donate something or sponsor an element contact or for more information, you can check the local section page on the ACS web page or contact Glenn Fugate 803-725-1590 glenn.fugate@srnl.doe.gov or Elise Fox (803)-725-3240 elise.fox@srnl.doe.gov.

ISEC 2011

The abstract deadline for the XIX International Solvent Extraction Conference has been extended until August, 2 2010.

Areas of Interest
- Treatment of Dissolved Metals in Liquid Solutions
- Solvent Extraction Processes
- Analytical Techniques and Methods
- Research and Development
- Process Chemistry and Engineering
- Environmental Aspects of Solvent Extraction.

The conference will address solvent extraction and stripping in the following industries: metallurgy, pharmaceuticals, food and beverage, chemicals and petrochemicals, nuclear energy, catalysis, polymers and materials, biotechnology and synthesis of natural products.