



**Division of Nuclear Chemistry and Technology**  
**American Chemical Society**

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

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**NEWSLETTER**  
**January 2010**

**Newsletter Editor: Lætitia Delmau**  
**Email: [dnct.newsletter@yahoo.com](mailto:dnct.newsletter@yahoo.com)**

**Topics**

- > **FROM THE CHAIR**
- > **NATIONAL MEETINGs – SAN FRANCISCO & BOSTON**
- > **SEARCH FOR NEW DIRECTOR OF SUMMER SCHOOL**
- > **SUMMER SCHOOL**
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**FROM THE CHAIR – *Silvia Jurisson***

As incoming chair of the NUCL Division for 2010 it is my pleasure to welcome all of you to the new decade, which will hopefully bring better economic news than the end of the previous decade. I would like to take this opportunity to thank our previous chair, Mark Stoyer, for his hard work and dedication to the division over the last year. I look forward to working for the members of the NUCL this year.

I would like to congratulate this year's Glenn T. Seaborg Award for Nuclear Chemistry winner, Lee B. Sobotka from Washington University in St. Louis. Lee Sobotka's research has involved the structure of nuclei far off stability and the mechanisms by which heavy nuclei react and highly excited nuclei decay. A very interesting symposium has been organized by Demetrios Sarantites at the San Francisco meeting in March in honor of Lee Sobotka's award. Three other symposia organized for this meeting are in the areas of Lanthanides and Actinides, Separations for the Nuclear Fuel Cycle, and Analytical Chemistry in Nuclear Technology. The Spring 2010 program in San Francisco is set, with the details of the four symposia found below. The symposia and their organizers for the Fall 2010 meeting in Boston are also found below.

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

I look forward to seeing everyone for an exciting program in San Francisco in March.

Silvia S. Jurisson  
2010 Chair, NUCL

## **SPRING ACS MEETING SAN FRANCISCO**

**All NUCL division sessions will be held  
in the Moscone Convention Center**

Symposia:

- (1) Seaborg Award Symposium Honoring Dr. Lee Sobotka
- (2) Separation for application to the nuclear fuel cycle, in Memory of Dr. Charles Madic
- (3) Lanthanides and Actinides: A Chemist's Perspective
- (4) Analytical Chemistry in Nuclear Technology

## **FALL ACS MEETING BOSTON**

**Abstracts will be due March 22, 2010**

Symposia:

- (1) Applications of Radionuclides in Imaging and Therapy Organizers: A. Packard, alan.packard@childrens.harvard.edu; T. Hoffman, hoffmant@health.missouri.edu
- (2) Aqueous Chemistry and Thermodynamics of Actinides and Fission Products: A Tribute to Volker Neck  
Organizers: D. L. Clark, dlclark@lanl.gov; S. B. Clark, s\_clark@mail.wsu.edu; H. Geckeis, geckeis@ine.fzk.de; T. Fanghaenel, thomas.fanghaenel@ec.europa.eu; H. Nitsche, hnitsche@lbl.gov

(3) Graduate Student Symposium in Nuclear and Radiochemistry Organizers: J. D. Robertson, robertsonjo@missouri.edu; P. Benny, bennyp@wsu.edu

(4) New Directions in Isotope Production and Radiochemistry at the DOE Organizers: P. Srivastava, prem.srivastava@science.doe.gov; C. Williamson, cwilliamson@msn.com; J. Pantaleo, john.pantaleo@science.doe.gov

(5) Radiochemistry at the Facility for Rare Isotope Beams  
Organizers: M. Stoyer, stoyer1@llnl.gov; P. Mantica, mantica@msu.edu

## **2011 International Chemistry Year**

Spring and Fall symposia are beginning to be set up, if you have a symposia idea or you would like to organize a symposia contact Michael Bronikowski. Here is what we have so far:

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

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

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.

“Seaborg Award”

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

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 .

Graduate Chemistry Symposium Need  
organizer

Possible: Nuclear Chemistry in Space

## SEARCH FOR NEW DIRECTOR OF SUMMER SCHOOL

A search for a new National Director of the  
summer schools will begin in early 2010. The  
term of Paul Mantica, the present National  
Director, will expire in January 2012. We  
would like to have a new national director in  
place around the time of the Spring 2010  
ACS meeting in San Francisco in order to  
overlap substantially with the end of Paul's  
tenure. The new director will have primary  
responsibility for submission of the grant  
paperwork for renewal of the contract for

operation of the summer schools and will be  
involved in the evaluation of additional  
summer school sites. The DNCT executive  
committee decided in Washington, DC that  
the first order of business was selecting a  
new National Director, the second order of  
business was ensuring the health of the  
existing summer schools and succession  
planning for those sites since there are some  
possible retirements coming up, and third  
order of business was addressing a possible  
third site for the summer school. Please send  
all suggestions, ideas and applications on  
National Directors to the Executive  
Committee (the friendly folks listed on the  
left of the first page) and to Silvia Jurisson  
(Chair 2010) by February 15, 2010.  
Interested candidates should submit a CV  
and cover letter stating their interests in  
serving as National Director. The DNCT  
Executive Committee will review applications  
and hopes to meet with potential candidates  
at the San Francisco ACS meeting to help  
them make a decision on this important  
position.

## SUMMER SCHOOL

*From Paul Mantica:*

### 1. 2009 Outstanding Students

Thomas Allen from the University of North  
Carolina (BNL) and Lindsey Gilman from  
Valparaiso University were named the  
Outstanding Students for the 2009 Nuclear  
and Radiochemistry Summer Schools.  
Lindsey and Thomas were invited to attend  
the 239th National Meeting of the ACS in  
San Francisco in March 2010, and Lindsey  
was able to accept the invitation. She will be  
recognized for her accomplishments at the  
NUCL Business Meeting on Monday  
Evening, March 22rd.

Congratulations Thomas and Lindsey!

### 2. Recruiting for 2010 Summer Schools

Recruiting activities for the 2010 Summer Schools are in full swing. The application deadline is February 1, 2010.

The six-week Summer School program is an INTENSIVE undergraduate introduction to nuclear science and applied technologies. The programs will be held at Brookhaven National Laboratory and San Jose State University from Sunday, June 13, 2010 through Saturday, July 24, 2010.

Application materials are available on-line at the Summer School website:  
<http://www.cofc.edu/~nuclear/nukess.html>

A recruiting poster can be downloaded in .pdf format for printing at:  
[http://www.nscl.msu.edu/~mantica/2010\\_SummerSchoolFlyer.pdf](http://www.nscl.msu.edu/~mantica/2010_SummerSchoolFlyer.pdf)

The Summer Schools are limited to 12 students at each site. Announcement of awards will be made in mid March 2010.

Fellowships include a stipend (\$3,800), all tuition and fees, transportation to and from the Summer School locations, housing, books, and laboratory supplies. Transferable college credit will be awarded through the ACS accredited chemistry programs at San Jose State University (7 units) or the State University of New York at Stony Brook (6 units).

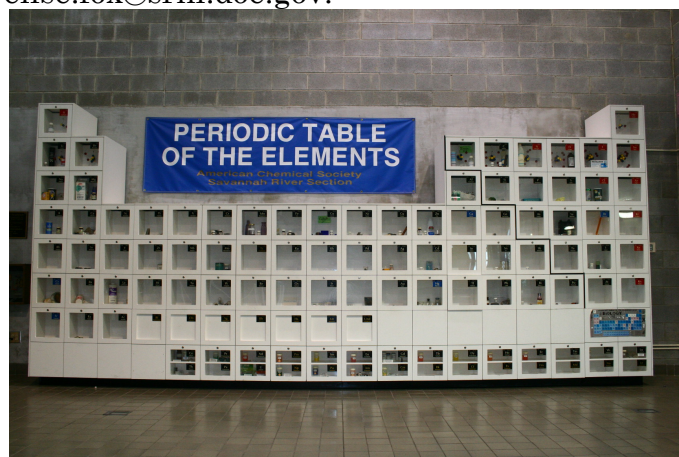
Candidates should be undergraduates who will be starting their junior or senior year in the Fall of 2010. They should have completed at least two years of chemistry, one year of physics, and one year of calculus. Preference will be given to rising seniors. Applicants must be U.S. citizens. Please encourage your undergraduate students to apply to this very rewarding preparatory program.

Any questions 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)

## IPG GRANT

Just a small note on our Division 2009 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 NUCL fall '09 newsletter or local section ACS site) The grant money has come in. The local section has purchased lights, and hired an electrician for their installation. More than half the elements have been sponsored. Requests for display objects in the actinide and transactinide drawers have been made to NUCL members. Re metal from a TIMS ion source, Nd light bulb, and a signed discovery paper from  $^{76}\text{Kr}$  have already been donated. Donations from NUCL members of objects that can be added to the boxes are still being sought. To donate something or for more information, you can check the local section page on the ACS web page or contact Glenn Fugate [glenn.fugate@srnl.doe.gov](mailto:glenn.fugate@srnl.doe.gov) (803)-725-1590 or Elise Fox (803)-725-3240 [elise.fox@srnl.doe.gov](mailto:elise.fox@srnl.doe.gov).



# ISEC2011

## XIX International Solvent Extraction Conference

## FIRST ANNOUNCEMENT AND CALL FOR PAPERS

17 → 21 OCTOBER 2011, Sheraton Santiago Hotel & Convention Center, Chile.

### PARTICIPANTS

The Organising Committee is pleased to invite scientists, researchers, consultants, managers, engineers, operators and suppliers of equipment, services and technologies from around the globe to participate in the **XIX INTERNATIONAL SOLVENT EXTRACTION CONFERENCE – ISEC 2011**, to be held for the first time in South America in the event's 48 year history, in Santiago, Chile.

### OBJECTIVES

ISEC 2011 is organised to provide an international forum where professionals may analyse and discuss recent innovations and developments related to solvent extraction operations and processes. This conference seeks to:

- Discuss emerging trends and identify the best practices and methodologies used in solvent extraction processes
- Promote the exchange of knowledge and experience in the design, planning and operations of solvent extraction processes
- Analyse criteria for design and evaluation of industrial plant projects
- Promote development of an interdisciplinary, international network for technical collaboration and exchange among professionals.

### ABSTRACT SUBMISSION

Professionals interested in presenting at the ISEC 2011 Conference are invited to submit a 300-word abstract of their paper in English by **5 April 2010** to [isec@isec2011.com](mailto:isec@isec2011.com). The abstract must be in MS Word format, include a title of maximum 100 characters (including spaces), author's full name, position, company, business address, city, country, telephones (office and cell) and e-mail. If accepted, a full article in English, up to 6 pages long, will be required by 3 August 2010.

### DEADLINES

ABSTRACT SUBMISSION	<b>5 APRIL 2010</b>
NOTIFICATION TO AUTHORS	<b>5 MAY 2010</b>
FULL PAPER SUBMISSION	<b>3 AUGUST 2010</b>
COMMENTS TO AUTHORS	<b>1 NOVEMBER 2011</b>
FINAL PAPER SUBMISSION	<b>17 JANUARY 2011</b>
EARLY BIRD REGISTRATION	<b>17 JULY 2011</b>

### EXECUTIVE COMMITTEE

**ISEC 2011 CHAIRMAN**  
**Dr. Jorge Menacho**  
De Re Metallica, Chile

**ISEC 2011 EXECUTIVE DIRECTOR**  
**Carlos Barahona**  
Gecamin, Chile

**ISEC 2011 TECHNICAL COORDINATOR**  
**Romke Kuyvenhoven**  
Gecamin, Chile

### ENQUIRIES

**EVENT COORDINATOR**  
**Mallory Dutton**

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Organised by

