



Division of Nuclear Chemistry and Technology
American Chemical Society

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

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ALICE C. MIGNEREY, 2009-2011
DAVID MORISSEY, 2010-2012

NEWSLETTER

April 2010

Newsletter Editor: Lætitia Delmau
Email: dnct.newsletter@yahoo.com

Topics

- > FROM THE CHAIR
- > NATIONAL MEETINGS – BOSTON and 2011
- > SUMMER SCHOOL
- > COUNCILOR REPORT
- > SYMPOSIA ANNOUNCEMENTS

FROM THE CHAIR – *Silvia Jurisson*

The San Francisco ACS meeting is behind us and it was a success. We had 4 symposia with 20 half-day sessions running from Sunday morning through Thursday afternoon, and including a poster session on Tuesday afternoon that was very well attended. There were a total of 189 presentations. The various symposia sessions had between 25 and 80 attendees, including the Thursday afternoon sessions. The symposium organizers are to be congratulated and thanked for their hard work in putting together the sessions of exciting speakers.

The Executive Committee met and several items of interest to the division membership arose and were communicated at the Business meeting. First and foremost, the next National Director of the Nuclear Chemistry Summer Schools will be Professor J. David Robertson from the University of Missouri. Congratulations and thanks to him for stepping up to take on this very important position. Secondly, we discussed identifying a Program Chair for the ACS meetings who would be 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.

If anyone is interested in this position, please contact me or Michael Bronikowski (our next Chair). We will discuss this further at the Fall Executive and Business meetings. Thirdly, there is ~\$100,000 available for Innovative Project Grants from the ACS; these allow for special funding for local and regional sections and meetings. These grants can be up to \$7,500 per project and up to \$12,500 per division. The information and application forms for these can be found at the ACS web site for anyone interested in submitting a proposal.

We are now in the process of organizing the Fall 2010 meeting to be held in Boston from 22-26 August. This looks to be another exciting meeting for us. There are 5 symposia scheduled at this meeting:

((1) Applications of Radionuclides in Imaging and Therapy Organizers: A. Packard, alan.packard@childrens.harvard.edu; [M. Lewis](mailto:M.Lewis), LewisMic@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; M. Welch, welchm@mir.wustl.edu; 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

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

Enjoy the spring weather 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, we still need an organizer(s) for Nuclear Chemistry in Space. If you have a symposium idea or you would like to organize a symposium, 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
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(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

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

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

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

Nuclear Chemistry in Space, i.e.

- Chemistry of the stars (R&S process, condensed nuclear matter, neutrino)
- Heat sources in space, ^{238}Pu production,
- Analytical (α , n) reactions to measure planetary soils, (n , γ) for meteorites, (JPL,NASA)
- radiation interactions in space

SUMMER SCHOOL

From Paul Mantica:

2009 Outstanding Student Awards:

Lindsey Gilman of Valparaiso University (SJSU) and Thomas Allen of the University of North Carolina (BNL) were the 2009 Nuclear and Radiochemistry Summer School Outstanding Student Awardees. Lindsey attended the ACS National Meeting in San Francisco and was recognized for her accomplishments at the NUCL Business Meeting.



Selection of 2010 Class:

We received 149 application forms for the 2010 Summer School program; 121 of the

application files were completed and sent for review. A committee comprised of Susan Lever (U. Missouri - Columbia), Richard Wilson (ANL), Alena Paulenova (Oregon State U), and Michael Bronikowski (Savannah River) reviewed the applications and provided a ranked ordering of students. The list of participating students is given below:

2010 NCSS - BNL

Sumer Brook Bottoms, Appalachian State University (NC)

Michael Crosley, Rutgers University (NJ)

Spencer Deese-Laurant, New York University

Jordan Ernst, Lake Superior State University (MI)

Zachery Matesich, College of Wooster (OH)

Sean McCarthy, Providence College (RI)

Joseph McLaughlin, University of California, Berkeley

Travis Shaffer, Gannon University (PA)

Benjamin Sturtz, Clarion University (PA)

Brekke Van Slyke, New Mexico State University

Philip Weiser, Moravian College (PA)

Andreas Wierschen, University of North Carolina

2010 NCSS - SJSU

Brandon Cisneros, Rice University (TX)

Kortney Cooper, Troy University (AL)

Daniel Johnson, Auburn University (AL)

David Kuntz, LeTourneau University (TX)

Samuel Morrison, Northern Arizona University

Emily Powell, Texas Tech University

Christopher Prokop, Minnesota State University, Mankato

Stephen Schale, Seattle Pacific University (WA)

Krystin Stiefel, Adrian College (MI)

Eva Uribe, Yale University (CT)

Stephen von Kugelgen, Reed College (OR)

Kurt Wiebold, College of Idaho

The 2010 Summer Schools will begin Monday, June 14 and run through Friday,

July 23. Herb Silber will serve as SJSU Site Director, and Frank Kinard as main lecturer at SJSU. Rich Ferrieri is the Site Director at BNL.

Program Manager Retires:

Lester R. Morss, program manager for Heavy Element Chemistry in the Office of Basic Energy Sciences that is part of the Office of Science at the U.S. Department of Energy, retired on April 9. Larry Rahn will be taking over Lester's responsibilities in the BES program, including the NCSS. The NUCL division presented Lester with a plaque during the Business Meeting at the San Francisco ACS National Meeting in recognition of his continued advice, creative support, and commitment to the NCSS and workforce development in nuclear and radiochemistry.



Selection of Next National Director:

The NUCL Executive Committee has selected Prof. Dave Robertson from the University of Missouri, Columbia, as the next National Director for the Nuclear and Radiochemistry Summer Schools. Dave will have responsibility for submitting and administering the next renewal grant proposal (due August 2011).

Until Dave officially takes over the NCSS responsibilities in Spring 2012, please continue to direct any questions, comments,

or concerns regarding the summer school program 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

COUNCILOR REPORT

From Steve Yates

The following summary is provided by the Office of the Secretary and General Counsel on key actions and discussions of the ACS Council and Board of Directors at the 2010 spring national meeting in San Francisco.

ACTIONS OF THE COUNCIL

Election Results

• The Committee on Nominations and Elections presented to the Council the following nominees for selection as candidates for President-Elect, 2011: Luis A. Echegoyen, John P. Fackler, Jr., and Bassam Z. Shakhashiri. A fourth candidate withdrew on February 3 for personal reasons. At that time, the Committee on Nominations and Elections voted to continue the search for a replacement nominee based on the ranking previously developed by the Committee. Committee action specified that if no replacement nominee was found by March 12, 2010, then the original nominee list and biographical data, without the nominee who withdrew, would be sent to the Council. As no nominee was identified, three nominees were presented.

By electronic ballot, the Council selected Luis A. Echegoyen and Bassam Z. Shakhashiri as candidates for 2011 President-Elect. These two candidates, along with any candidates

selected via petitions, will stand for election in the Fall National Election.

• The Committee on Nominations and Elections announced the results of the election to select candidates from the list of nominees to represent District II and District IV on the Board of Directors for the term 2011-2013. Nominees for District II included: George M. Bodner, Andrew D. Jorgensen, V. Michael Mautino, and Joseph R. Peterson. Nominees for District IV included John W. Finley, Larry K. Krannich, Will E. Lynch, and Ingrid Montes. By mail ballot, the Councilors from these districts selected George M. Bodner and Joseph R. Peterson as District II candidates; and Larry K. Krannich and Will E. Lynch as District IV candidates. Ballots will be mailed on or before October 10 to all members in District II and District IV for election of a Director from each District.

Candidates for Directors-at-Large

• The Committee on Nominations and Elections announced the selection of the following candidates for Directors-at-Large for a 2011-2013 term: Janan M. Hayes, Robert L. Lichter, Kathleen M. Schulz, and Kent J. Voorhees. The election of two Directors-at-Large will be conducted in the fall. Ballots will be mailed to the Council on or before October 10.

Petitions to Amend the Constitution and Bylaws

(For Action)

The Council received three amendments to the ACS Constitution and Bylaws for action: The Petition on Admissions Committee, the Petition on Candidate Selection by Member Petition, and the Petition on Election Timelines 2009.

The Council VOTED to approve the Petition on Admissions Committee. This petition removes the Admission Committee from the

Bylaws and transfers its functions to the Council Committee on Membership Affairs.

After considerable debate, a motion to approve the Petition on Candidate Selection by Member Petition FAILED. The Petition on Candidate Selection by Member Petition would have amended the Constitution to emphasize that candidates selected by a petition process from members will have no further screening.

The Council also thoroughly debated the merits of the Petition on Election Timelines 2009. The motion to approve this petition FAILED. The Petition on Election Timelines 2009 would have shortened certain national election timelines.

The Board of Directors will vote within 90 days on whether to ratify the Petition on Admissions Committee.

(For Consideration)

- The Council received three petitions for consideration: The Petition on International Chemical Sciences Chapters, Petition on President-Elect Eligibility, and Petition on Recorded Votes. The Petition on International Chemical Sciences Chapters provides for travel funds for either the Chair or Chair-Elect of International Chemical Sciences Chapters to attend governance meetings at twice the amount allotted for a Councilor. The Petition on President-Elect Eligibility requires that nominees or candidates for President-Elect come from an academic background every other election, and that only those from non-academic backgrounds would be eligible in the alternate years. The Petition on Recorded Votes provides for additional voting methods, e.g., clickers that have been recently used at Council meetings, when conducting recorded votes. Action is expected on these petitions at the fall Council meeting.

The Society's Finances

- The Council and Board of Directors learned that the Society's total 2009 revenue (\$460 million) was up +1% from 2008, but fell short of the 2009 approved budget by \$19.5 million or 4.1%. Fortunately, the revenue shortfall was fully anticipated in early 2009. Therefore, contingency planning actions and cost containment initiatives were implemented across the Society, resulting in expense savings totaling \$22.5 million. Significant reductions were realized in salaries and fringe benefits, and in discretionary accounts such as travel, training, and professional services. As a result, the Society's Net Return from Operations was \$13.7 million, or \$3.0 million greater than anticipated in the 2009 Approved Budget.

Unrestricted Net Assets rebounded in 2009 to approximately \$124 million, from a previous \$60 million at the end of 2008. The significant increase can be attributed to the favorable operating results, investment gains, and a net reduction in the Society's post-retirement benefit plan liabilities. The Society ended the year in compliance with four of the five Board-established financial guidelines. The Fund Balance Ratio Guideline, which measures the adequacy of the Society's unrestricted net assets, was not met. The financial outlook for 2010 is better, and ACS management expects the Society to meet the 2010 approved budget.

2011 Member Dues

- The Council VOTED to set the member dues for 2011 at the fully escalated rate of \$146. This rate is established pursuant to an inflation-adjustment formula in the ACS Constitution and Bylaws.

Local Section Allotment Calculator

- The Council VOTED to continue for three years the current formula for determining allotments to local sections.

Member Statistics

- At the close of 2009, Society membership totaled 161,783 compared to 154,024 for year-end 2008. The number of new membership applications received last year was the highest ever. The 2009 number also reflects the transition of 6,658 former Student Affiliates to the new student member category in June 2009 and the recruitment of 6,341 new student member undergraduates.

Attendance Report

- As of March 24, 2010, the ACS spring national meeting had attracted 18,076 registrants as follows: Regular attendees, 9,715; Students, 5,705; Exhibitors, 1,219; Exposition only, 923; and Guests, 514.

ACTIONS OF THE BOARD OF DIRECTORS

Committee Actions

The Board received reports from its Executive Committee, Committee on Grants and Awards (G&A), and Committee on Planning.

The Executive Committee closely examined its role and that of the Planning Committee, and concluded that both committees add value and are important to the overall work of the Board of Directors.

The Committee on Grants and Awards presented the Board with a screened list of nominees for the 2011 Priestley Medal, the Volunteer Service Award, and the Parsons Award. The Board agreed to review the screened list and announce the winners of these three awards after its June meeting.

The Board's Committee on Planning met with the Board in executive session. At that point, the Board Chair announced that the Board of Directors had VOTED to grant full voting rights on the Planning Committee to the chairs of the Committees on Local Section Activities and Divisional Activities. (CPC & B&F already vote.) The committee and the Board then discussed the results of an external environmental scan and offered suggestions that could be used to refine the Society's Strategic Plan for 2011 and Beyond. The committee and the Board also reviewed the committee's role and considered some modifications to its charge and to its frequency of meetings.

Presidential Task Force on Diversity Reports

The Board received a report from the President's Task Force on Diversity Reports. The task force was charged with assessing the recommendations from the diversity workshop reports in the context of current efforts and committees of the Society, and developing a road map for the implementation of the recommendations. The task force also urged that the ACS move into a leadership role in promoting the education, professional development, and inclusion and equity of present and future generations of chemical professionals that reflect the diversity of America. The Presidential succession and the full Board VOTED to refer the task force report to the Board Standing Committee on Professional and Member Relations for prioritization, assignment of accountability, and development of implementation timelines, and discharged the task force with sincere thanks for its excellent work.

The Executive Director/CEO Report

The Executive Director/CEO, along with several of her direct reports, updated the Board on the activities of Chemical Abstracts Service, the Publications Division, and the

Society's General Counsel. As a follow-up, the Board VOTED to approve a new appointment and three reappointments of journal editors.

On the recommendation of the ACS Governing Board for Publishing, the Board VOTED to accept a recommendation to authorize an additional member position on the Governing Board whenever additional expertise or perspective would help it execute its duties.

Compensation of Society Staff

On the recommendation of the Committee on Executive Compensation, the Board VOTED to approve several actions relative to compensation for the Society's Executive staff. The compensation of the Society's executive staff receives regular review from the Board.

Other Society Issues

The Board was briefed by its working group monitoring 2010 Board Logistical Training. This plan, which currently includes four broad topic areas, is designed to enhance overall Board effectiveness. The Board also received reports from several international guests representing the following scientific societies: Brazilian Chemical Society, the Chemical Society for Canada, the European Association for Chemical and Molecular Sciences (EuCheMS), the Royal Society of Chemistry (RSC), and the International Union of Pure and Applied Chemistry (IUPAC).

CALL FOR PAPERS

Plutonium Futures - The Science 2010

Keystone, Colorado, USA

September 19-23, 2010

From David Hobart

Dear Colleagues,

The summary submission deadline for the Plutonium Futures - The Science 2010 Conference, Keystone, Colorado, September 19-23, 2010, is May 21, 2010. This is the sixth in a series of acclaimed international conferences which was initiated by Los Alamos and Lawrence Livermore National Laboratories in 1997. The 2010 conference is sponsored by Los Alamos and Lawrence Livermore National Laboratories and by the American Nuclear Society (ANS).

Plutonium Futures conferences provide an international forum for the discussion of current research on the physical and chemical properties of plutonium. By bringing people of diverse disciplines together, the conference aims to enhance the dialogue among scientists and engineers on the fundamental properties of plutonium and their technological consequences.

http://www.new.ans.org/meetings/m_92

Please submit an extended abstract describing the work, significance, and relevance to plutonium and actinide science.

Conference Subject Categories:

Condensed-matter physics

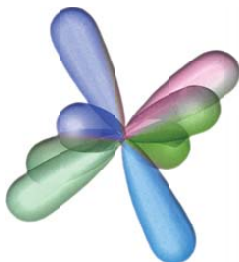
Materials science

Surface, interfaces, colloids, corrosion

Plutonium and actinide chemistry

Fuel-cycle issues

Detection and speciation analysis



CALL FOR PAPERS

Plutonium Futures – The Science 2010

Keystone, Colorado, USA
September 19-23, 2010

ABOUT THE CONFERENCE

This is the sixth in a series of acclaimed international conferences initiated by Los Alamos and Lawrence Livermore National Laboratories in 1997.

Plutonium Futures provides an international forum for the discussion of current research on the physical and chemical properties of plutonium and other actinide elements.

CONFERENCE CHAIRS

General Chairs

David Clark, *Los Alamos National Laboratory*

Gordon Jarvinen, *Los Alamos National Laboratory*

Michael Fluss, *Lawrence Livermore National Laboratory*

Program Chair

David Hobart, *Los Alamos National Laboratory*

PAPER DEADLINES

SUBMISSION OF SUMMARIES: May 21, 2010

The summary submission deadline for the Plutonium Futures – The Science 2010 Conference, Keystone, Colorado, September 19-23, 2010, is May 21, 2010. Extended summaries describing the work, significance, and relevance to plutonium and actinide science may be submitted to the following address: <http://epsr.ans.org/meeting/?m=92>.

AUTHOR NOTIFICATION OF ACCEPTANCE: By June 18, 2010

Authors will be notified by June 18, 2010 of acceptance (plenary, invited, contributed, or poster). The majority of the technical papers will be presented in one of three poster sessions.

FORMAT

Authors are required to use the ANS Template and "Guidelines for TRANSACTIONS Summary Preparation" provided on the ANS Web site. Summaries must be submitted electronically using Adobe Acrobat (PDF) files or original Microsoft Word documents and the ANS Electronic Submission System. Summaries not based on the ANS Template will be rejected.

CONFERENCE SUBJECT CATEGORIES

- Condensed-matter physics
- Materials science
- Surface, interfaces, colloids, and corrosion
- Plutonium and actinide chemistry
- Fuel-cycle issues
- Detection and speciation analysis

REQUIRED TEMPLATE AND "GUIDELINES FOR TRANSACTIONS SUMMARY PREPARATION"

www.ans.org/pubs/transactions

SUBMIT A SUMMARY

<http://epsr.ans.org/meeting/?m=92>

TRANSACTIONS COORDINATOR/INFORMATION SERVICES

Ellen Leitschuh
Tel: 708/579-8253
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ISEC2011

XIX International Solvent Extraction Conference

FIRST ANNOUNCEMENT AND CALL FOR PAPERS

3 → 7 OCTOBER 2011. Sheraton Santiago Hotel & Convention Center, Chile.

PARTICIPANTS

The Organising Committee is pleased to invite researchers, consultants, engineers and suppliers of equipment, services and technologies worldwide 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.

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.

FIELDS OF APPLICATION

The conference will address solvent extraction and stripping in the following industries and applications:

- Metallurgy, pharmaceuticals, food and beverage, chemicals and petrochemicals, nuclear energy, catalysis, polymers and materials, biotechnology and synthesis of natural products.
- Environment in solvent extraction, water and solvent recoveries, industrial effluent treatments, and recovery and recycling of reagents and extractants.

ABSTRACT SUBMISSION

Professionals interested in presenting at the conference are invited to submit a 300-word abstract of their paper in English by **7 June 2010** to isec@isec2011.com. The abstract must be in MS Word format and 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 **29 October 2010**.

DEADLINES

ABSTRACT SUBMISSION	7 JUNIO 2010
NOTIFICATION TO AUTHORS	22 JULY 2010
FULL PAPER SUBMISSION	29 OCTOBER 2010
COMMENTS TO AUTHORS	28 JANUARY 2011
FINAL PAPER SUBMISSION	14 MARCH 2011

AREAS OF INTEREST

ISEC 2011 will focus on innovations and developments in solvent extraction, research, operations and processing related to the following areas:

—Treatment of Dissolved Metals in Liquid Solutions

Separation, concentration and purification.

—Solvent Extraction Processes

Interfacial and coalescence phenomena, emulsions, cruds, impurities entrainment, thermodynamics, kinetics and transport phenomena involved in solvent extraction processes.

—Analytical Techniques and Methods

Solute speciation and solution chemistry, chromatography, extractive separators, membrane electrodes, sampling, instrumentation, analysis and on-line monitoring.

—Research and Development

Novel extractants, diluents and modifiers, ionic liquids, supercritical extraction, aqueous biphasic systems, micellar systems, liquid membranes, membranes, solvent-impregnated resins, solid-phase extractants and hollow fibers.

—Process Chemistry and Engineering

Equipment, industrial plants, economics, flow sheet configurations, instrumentation, automation, modeling, optimisation and automatic control.

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De Re Metallica, Chile

Fernando Valenzuela
ISEC 2011
TECHNICAL COORDINATOR
AND EXECUTIVE EDITOR
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ISEC 2011
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