

1st Announcement
Call For Abstracts & Seaborg Award Nominations

32nd Annual Actinide Separations Conference
May 12 – 15, 2008
Park City Marriott
Park City, Utah

Abstracts due by April 1, 2008
Notification to Authors April 15, 2008
Nominations for the Seaborg Award due March 15, 2008

Subjects of interest include:

- 1) Actinide Separations in Legacy Waste Applications
- 2) Aqueous Separations of Actinides
- 3) Electrochemical Separation of Actinides
- 4) Advanced Nuclear Fuel Cycles
- 5) Actinide Speciation and Kinetics
- 6) Modeling for Actinide Chemistry & Process Applications
- 7) Actinide Conversion/Immobilization
- 8) Actinide Environmental Transport
- 9) Actinide Analysis and Characterization
- 10) Manufacturing Technology and Materials Stabilization

Abstract Submittal

Abstracts may be submitted by email attachment to Scott Herbst (R.Herbst@inl.gov). The abstract should not contain UCNI, Applied Technology or Classified information. The preferred format is Microsoft Word. Please follow the example below using 14 point, bold centered Times font for the title and 12 point, fully justified Times font for the other parts of the abstract. The abstract should fit completely on one page (typically 500

words or less) with minimum 1 inch margins, including title and author information. Please specify the preference for oral or poster presentation. Indicate the speaker* with an asterisk and underline the name and address of author to whom correspondence should be sent. An example abstract follows:

**PEG-400 Partitioning in the HCCD/PEG Process for Cs and Sr
Recovery**

R. Scott Herbst*, Dean R. Peterman

Idaho National Laboratory, Idaho Falls, ID, USA

Troy A. Robinson

University of Nevada Las Vegas, Las Vegas, NV, USA

Abstract: The properties of the chloro-protected cobalt bis(dicarbollide) anion in the acidic form (HCCD), and in the presence of polyethylene glycol (PEG-400), are well known for the recovery of Cs and Sr from acidic radioactive streams. In the early development of HCCD/PEG extraction processes, questions were raised regarding the ability to control the concentration of PEG-400 in the organic phase due to its high solubility in the aqueous process solutions relative to HCCD or the diluent. The purpose of this study was to quantify the partitioning behavior of PEG-400 under a wide variety of relevant process conditions. PEG distribution ratios (D_{PEG}) were measured by equilibrium batch contacts between the organic and aqueous phases over a wide range of conditions using radiometric techniques with ^{14}C labeled PEG-400 to monitor the behavior of the bulk material. The results vary dramatically from $0.1 < D_{PEG} < 50$, indicate that the PEG phase transfer kinetics are rapid, and that the aqueous phase HNO_3 concentration has minimal impact on PEG solubility. The molar concentration ratio of $[\text{HCCD}]:[\text{PEG}]$ in the organic phase has the greatest impact on PEG solubility. This ratio should be maintained at $[\text{HCCD}]:[\text{PEG}] \geq \sim 6$ to minimize PEG losses from the organic phase.

Presentation Preference: Oral or Poster

*Speaker

Corresponding Author

Nominations for The Glenn T. Seaborg Actinide Separations Award.

Rules of Eligibility

This award is intended to recognize those U.S. (nationality) scientists and engineers who have made outstanding and lasting contributions to the development and application of actinide separations processes and methodology.

- Development of new and/or improved methods for the recovery, separations, and purification of actinide elements on a laboratory or plant scale.
- Development of new and/or improved methods for the plant-scale recovery, separation, and purification of actinide elements.
- Basic research that is directly and clearly related to the separation of actinide elements.
- The recipient's contributions in one or more areas of actinide separations shall be of current significance even though the work may have been performed many years prior to the nomination for the Seaborg Award.

The Nomination and Selection of the candidate

Candidates to receive the Seaborg Award may be nominated by any scientist or engineer who has detailed knowledge of the nominee's contributions and qualifications to receive the award. Nomination of a candidate to receive the Seaborg Award is made by completing a Seaborg Award Nomination Form. Complete nomination forms are only valid for one year. A new Seaborg Award Nomination must be completed and properly submitted to again place a nominee on the active list of candidates for the Seaborg Award. The host of the immediate past Actinide Separations Conference will serve as the Chairman of the Awards Committee. Completed nomination forms should therefore be submitted to Elizabeth Bluhm (e-mail to: ebbluhm@lanl.gov), the current Chairman of the Advisory Board of the Actinide Separations Conference. Only the Seaborg Award Committee will review those forms in determining the next recipient of the Seaborg Award. A special Awards Committee shall select the recipient of the Seaborg Actinide Separations Award. The Awards Committee shall consist of the maximum odd number of eligible Advisory Board members. Any Board member who is a candidate for the award cannot serve on the Awards Committee. The awards committee will first screen all nominees to determine eligible nominees. From the list of eligible nominees, the Awards Committee will determine the recipient of the Seaborg Award by taking successive ballots until one nominee receives a majority vote of the members of the Awards Committee. The Chairman of the Awards Committee will then notify the recipient.

NOMINATION FORM

The Glenn T. Seaborg Actinide Separations Award

Candidate's Name:

Position or Title:

Name of Company/Institution:

Address of Company/Institution:

On attached sheets please include:

1. Candidate's Curriculum vitae.
 2. Description of achievements (including a list of the nominee's relevant publications, patents, and a statement of the significance).
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Nominator's Name:

Position or Title:

Name of Company/Institution:

Address of Company/Institution:

Signature of Nominator:

Date of Nomination:

RETURN THIS FORM BY March 15, 2008

Nomination information may also be submitted by electronic mail to Elizabeth Bluhm (ebluhm@lanl.gov). Preferred format is Microsoft Word.

RETURN TO:

Elizabeth Bluhm

MS E530 Los Alamos National Laboratory

Los Alamos, NM 87545 USA

Phone: (505) 667-8365 Fax: (505) 665-4459 Email: ebluhm@lanl.gov