

# American Nuclear Society

## Nuclear Criticality Safety Division Newsletter



**Fall 2008**

<http://ncsd.ans.org>

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**Larry Wetzel, Editor**  
[llwetzel@babcock.com](mailto:llwetzel@babcock.com)

## *Message from the Chair*

Seems like just the other day we were listening to *It's a Small World...*, but here we are in the hectic days after the Winter Meeting in Reno. We continue to show our strength as a division with a full slate of sessions and a workshop, not to mention governance meetings and our Annual Awards Dinner. Please avail yourself of the many opportunities!

Congratulations! We awarded the inaugural Nuclear Criticality Safety Pioneers Scholarship to Allison Barber. Allison is a graduate student at the University of New Mexico. She was chosen because of her outstanding academic record and her promise as a future leader in Nuclear Criticality Safety and the ANS.

As a reminder to our members, the scholarship is funded by our division, not endowed, and we will be looking to you to help us help the next scholar by replenishing the fund. Your contribution can be made by writing a paper (or three) and attending [Nuclear Criticality Safety: Realism, Robustness and the Nuclear Renaissance](#). Proceeds from the topical directly support the fund. You can also help by making a personal donation directly to the scholarship fund.

Speaking of students, both NCSD and the ANS are working hard to grab the attention of students and demonstrate why membership is a mutually beneficial affair. To that end, have a cup of coffee with a student and extol the virtues of a career in criticality safety.

Darby is working on a publicity brochure for NCSD. We'll have a draft available for perusal in Reno. However, we need some photos that capture the essence of NCSD Membership. I know you have some. Please bring them with you or send us an email!

Looking forward to seeing you at one of the upcoming meetings,

Dave

[dkhayes@lanl.gov](mailto:dkhayes@lanl.gov)  
(505) 667-4523

***Nuclear Criticality Safety Division  
Executive Committee***

The people who run our division:

***2008-2009 Officers (Term Ending June, 2009):***

**Chair**

David K. Hayes, (865) 293-2639,  
Los Alamos National Lab,  
[dkhayes@lanl.gov](mailto:dkhayes@lanl.gov)

**Treasurer/Finance Officer**

Bonnie Rumble, (859) 319-3200  
NISYS Corporation,  
[bjrumble@nisyscorp.com](mailto:bjrumble@nisyscorp.com)

**Vice Chair/Chair Elect**

Robert Frost, (423) 610-0249,  
Nuclear Safety Associates,  
[robert.frost@nuclearassociates.com](mailto:robert.frost@nuclearassociates.com)

**Secretary**

Brad Rearden, (865) 574-6085,  
Oak Ridge National Lab,  
[reardenb@ornl.gov](mailto:reardenb@ornl.gov)

***Committee Members:***

**Term Ending June, 2009**

Sedat Goluoglu, (865) 574-5255,  
Oak Ridge National Lab,  
[goluoglus@ornl.gov](mailto:goluoglus@ornl.gov)

**Term Ending June, 2010**

Donna D'Aquila (740) 897-4076  
United States Enrichment Corporation  
[daquiladm@ports.usec.com](mailto:daquiladm@ports.usec.com)

Sandra Larson, (865) 574-3401,  
Nuclear Safety Associates,  
[sandi.larson@nuclearassociates.com](mailto:sandi.larson@nuclearassociates.com)

Darby Kimball (415) 768-5360  
Bechtel National,  
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John Miller, (505) 665-2815,  
Los Alamos National Lab,  
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Peter Angelo (865) 241-4559  
Y-12 National Security Complex  
[angelopl@y12.doe.gov](mailto:angelopl@y12.doe.gov)

**New Members (Term Ending June, 2011)**

Julie G. Ezold, (865) 574-9594,  
Oak Ridge National Lab  
[ezoldjg1@ornl.gov](mailto:ezoldjg1@ornl.gov)

David P. Heinrichs  
Lawrence Livermore National Lab  
[heinrichs1@llnl.gov](mailto:heinrichs1@llnl.gov)

Larry L. Wetzel, (434) 522-6580,  
Babcock & Wilcox, NOG  
[llwetzel@babcock.com](mailto:llwetzel@babcock.com)

**NCSD Website**

Check out the Division's website at: <http://ncsd.ans.org/> It has been recently updated.  
Mail any suggestions to [Larry Wetzel](mailto:Larry Wetzel). We are working to get the site updated.

## *Upcoming Meetings (at a glance)*

Dates and locations of upcoming ANS meetings are listed below:

<b>Dates</b>	<b>Location</b>
June 14-18, 2009	<a href="#">Atlanta, GA (ANS Annual Meeting)</a>
Sept. 13-17, 2009	<a href="#">Richland, WA (NCSD Topical)</a>
Nov. 15-19, 2009	Washington, D.C. (ANS Winter Meeting)
June 13-17, 2010	San Diego, CA (ANS Annual Meeting)
Nov. 14-18, 2010	New Orleans, LA (ANS Winter Meeting)
June 26-30, 2011	Hollywood, FL (ANS Annual Meeting)
Oct 30-Nov 3, 2011	Washington, DC (ANS Winter Meeting)
June 24-28, 2012	Chicago, IL (ANS Annual Meeting)
Nov. 11-15, 2012	San Diego, CA (ANS Winter Meeting)
June 16-20, 2013	Atlanta, GA (ANS Annual Meeting)
Nov. 10-14, 2013	Washington, DC (ANS Winter Meeting)

## *Program Committee*

*Nichole Ellis, Program Chair*

[ellis\\_9899@msn.com](mailto:ellis_9899@msn.com)

(803) 381-3710

## *Activities of Interest to NCSD Members at the Reno Meeting*

### **Committee and Working Group Meetings**

Nuclear Criticality Safety Division Education Committee

Nuclear Criticality Safety Division Program Committee

Nuclear Criticality Safety Division Executive Committee

Standard ANS-8.1 workgroup

Standard ANS-8.12 workgroup

Standard ANS-8.20 workgroup

Standard ANS-8.21 workgroup

Standard ANS-8.23 workgroup

NCSD Awards Dinner at the Silver Peak Restaurant and Brewery

DOE Workshop: "Potential Nuclear Criticality Safety Evaluation Improvements for Operational Efficiencies"

### **Technical Sessions**

#### **Analysis, and Operations for Nuclear Criticality Safety—I, sponsored by NCSD; cosponsored by YMG.**

Absorption of Water into Uranium Powder and Implications to Nuclear Criticality Safety, Jerry Lichtenwalter (*B&W Y-12 Technical Svc*)

Updated Plutonium-Solution Temperature-Coefficient Calculations, Drew Kornreich (*LANL*)

Revisiting the "Provost k-Infinity Curves," Drew E. Kornreich, Arthur R. Pan, Douglas G. Bowen, Norman L. Pruvost (*LANL*)

Criticality Safety Regulation: The Pendulum Has Swung Too Far, Thomas Patrick McLaughlin (*Consultant*)

Subcritical Measurements of a Plutonium Sphere with Various Reflectors, Jesson Hutchinson (*Georgia Tech*)  
A Dynamic Simulation Tool for Critical Assemblies Using the Coupled Neutronic-Thermoelastic Method, Travis Grove, Robert Kimpland, William L. Myers (*LANL*)

**Data, Analysis, and Operations for Nuclear Criticality Safety—II, sponsored by NCSD; cosponsored by YMG.**

The TWPC Graded-Approach to Nuclear Criticality Safety, Kevin Kimball (*NISYS Corp*)  
Criticality Frequency Analysis for De-Inventory of Lawrence Livermore National Laboratory's Special Nuclear Materials to Savannah River Site, Debdas Biswas, David Riley, Karen Dodson (*LLNL*)  
Approach for Nuclear Criticality Safety During Demolition of the K-25 Building, John Chandler (*ACTS of South Carolina*), Roger W. Bartholomay (*WSMS*)  
Subcritical Measurements Multiple HEU Metal Castings, John Mihalczko (*ORNL*)  
Using Cross-Section Uncertainty Data to Estimate Biases, Donald Mueller, Bradley T. Rearden (*ORNL*)  
Designing Critical Experiments in Support of Full Burnup Credit, Jeremy A. Roberts (*Univ of Wisconsin, Madison*), Donald Mueller (*ORNL*)

**Data, Analysis, and Operations for Nuclear Criticality Safety—III, sponsored by NCSD; cosponsored by YMG. Session Organizer: Nichole Ellis (*Ellis Nuclear Eng*)**

MCNP5 Criticality Benchmarking Using ENDF/B-VII.0 for LEU Systems, John Hannah, Qi Ao, John Zino (*GE-Hitachi Nuclear Energy*)  
Efforts to Eliminate Raschig Ring Filled Vessels at B&W, Ron J. Green (*Babcock and Wilcox NOG-L*)  
Variation of Extrapolation Distance with U-235 Concentration, Allison Miller, Robert D. Busch (*Univ of New Mexico*)  
The Quantitative Relevance of Correlation to the Independence Aspect of the Double Contingency Principle, Burton Rothleder (*DOE*)  
Performance of the New Continuous Energy Capability in KENO V.a, Sedat Goluoglu (*ORNL*)

**Recent Nuclear Criticality Safety-Related Events and Associated Lessons Learned, sponsored by NCSD; cosponsored by YMG.**

Criticality Safety Issues Related to Use of Raschig Rings at B&W, Larry L. Wetzel (*B&W Nuclear Operations Group*)  
Plants Changes Effecting Criticality Alarm Exemptions at NRC Licensees, Thomas J. Marenchin, Dennis Morey (*U.S. NRC*)  
Importance of Criticality Safety Staff Monitoring and Reviewing Procedures Used to Perform Fissile Material Operations at NRC Licensees, Thomas J. Marenchin, Dennis Morey (*U.S. NRC*)  
Nuclear Criticality Safety Lessons Learned at Los Alamos National Laboratory, Douglas G. Bowen, Shean P. Monahan (*LANL*), Patrick Moss, Jerry Hicks (*U.S. DOE/NNSA*)  
March 6, 2006 Spill Event at Nuclear Fuel Services, Randy Shackelford (*Nuclear Fuel Services, Inc.*)

**Nuclear Criticality Safety Standards Poster Session, sponsored by NCSD; cosponsored by YMG.**

Administrative Practices for Nuclear Criticality Safety, Royal W. Carson Jr. (*NISYS Corp*)  
ANSI/ANS-8.23-2007: Nuclear Criticality Accident Emergency, James Baker (*LANL*)  
Criticality Safety Engineer Training and Qualification Program –ANSI/ANS-8.26, James Morman (*ANL*)  
Overview of the Raschig Ring Standard, ANSI/ANS 8.5, Jerry Hicks (*U.S. DOE NNSA*)  
ANSI/ANS 8.24 - Validation of Neutron Transport Methods for Nuclear Criticality Safety Calculations, Robert D. Busch (*Univ of New Mexico*)  
ANSI/ANS-8.1: Nuclear Criticality Safety in Operations with Fissile Material Outside Reactors, Douglas G. Bowen (*LANL*), Nicholas Brown (*Nuclear Fuel Services*)  
ANSI/ANS-8.15: Nuclear Criticality Control of Selected Actinide Nuclides, Charles Rombough (*CTR Technical Services*)  
ANSI/ANS 8.12, Nuclear Criticality Control and Safety of Plutonium- Uranium Fuel Mixtures Outside Reactors, Debdas Biswas (*LLNL*), Dennis Mennerdahl (*E M Systems*)

Nuclear Criticality Safety Based on Limiting and Controlling Moderators - ANSI/ANS-8.22, Michael J. Crouse (*URS – Washington Division*)

Guide for Nuclear Criticality Safety in the Storage of Fissile Materials, Kevin Kimball (*NISYS Corp*), Calvin M. Hopper (*ORNL*)

ANSI/ANS-8.21: Use of Fixed Absorbers in Nuclear Facilities Outside Reactors Poster Session, Hans Toffer (*Consultant*), David Erickson (*FluorGovernment Group*)

ANSI/ANS 8.6 American National Standard for Safety in Conducting Subcritical Neutron Multiplication Measurements in Situ, William L. Myers (*LANL*)

ANSI/ANS-8.25-200X: Development of Nuclear Criticality Safety Related Postings Proposed Standard, Gerard F. Couture (*Westinghouse*)

ANS-8.20-1991 – Nuclear Criticality Safety Training, Ronald A. Knief (*XE Corp*), A. Nichole Ellis (*Ellis Nuclear Engineering*)

## Workshops

### “Criticality Accident Source Term Workshop”

This workshop will address the fundamental physics and available methods for estimating fission source terms for criticality accidents. The workshop topics include:

1. Basic physics and kinetics needed to describe criticality accidents
2. Overview of critical experiments that simulate accidents
3. Process and experimental criticality accident experience
4. Estimating fission source terms with empirical correlations
5. Detailed system modeling with physics codes
6. Using the Nuclear Criticality Slide Rule

**Instructors:** Bryan Broadhead (*ORNL*); Mathieu Duluc (*IRSN, France*); Travis Grove (*LANL*); Shean Monahan (*LANL*); and Jim Baker (*LANL*)

The presentations given at the meeting are being made available on the [NCSD Website](#). Take a look at the presentation and the Call for Papers below, then write a paper.

Picture of the Awards dinner and the meeting are later in the newsletter and also on the [NCSD Website](#).

## Call for Papers

### June 14 - 18, 2009 (Atlanta, GA) NCSD Sessions

The **2009 ANS Annual Meeting** will be held June 14th – 18th at the Hyatt Regency in Atlanta, GA. The deadline for summary submission is **January 9**, and the Call for Papers for the meeting is available on the Internet at: <http://www.ans.org/meetings/docs/2009/am2009-cfp.pdf>

#### 1. Data, Analysis, and Operations for Nuclear Criticality Safety – Contributed

The purpose of this session is to provide a forum for timely presentation of general issues in the area of nuclear criticality safety that are not covered in other special session topics.

**Session Organizer:** Nichole Ellis, Ellis Nuclear Engineering LLC

## **2. Nuclear Criticality Safety Standards Forum – Panel**

Subcommittee ANS-8, Operations with Fissile Material Outside Reactors, meets to discuss various technical and administrative aspects of the approximately 20 national consensus standards under its purview. In addition to status and progress updates by representatives of individual working groups, formal presentations on the technical bases of numerical values such as subcritical limits and experiences with applications of particular standards are solicited. Agenda topics such as new and expanded standards are also encouraged.

**Session Organizer:** Tom McLaughlin, LANL-retired

## **3. Advances in Nuclear Criticality Accident Excursions Analysis – Contributed**

The need for excursions analysis is evident when developing both minimum accident and bounding accident scenarios apart from default methods or generic handbook values. This subject area is broad and can consider the computational advances and practical applications of those methods. Recent advances in multiphysics computation can also be addressed. Additionally, the use of time dependent simulation studies for source term and evacuation studies can also be addressed. This session will provide the opportunity to present papers relative to advances in nuclear criticality accident excursions analysis.

**Session Organizer:** Peter Angelo, Y-12

## **4. Nuclear Criticality Safety Staff and Operations Interface – Contributed**

A good interface between the staff providing limits and controls for safe fissile material operations and the staff with operation's responsibilities is essential for a sound program. A significant fraction of nuclear facilities have added the position of a Criticality Safety Officer (or Representative) to manage or strengthen this interface. This session will focus on the interface issue, the problems that lead to this new position, experience with this initiative and possibility other ways of positively addressing the interface objective.

**Session Organizer:** Bob Wilson, DOE

## **5. Integration of Nuclear Criticality Safety into New Facility Design – Contributed**

DOE/NNSA and NRC licensees are designing and constructing new fissile material processes in the United States. These include new enrichment facilities, new waste uranium recovery facilities, new uranium storage and processing facilities and plutonium research and development facilities. Integrating nuclear criticality safety into the design process is an important element of effective nuclear criticality safety programs. Robust NCS design criteria and early input from criticality safety engineers enable the designers to build upon collective knowledge and lessons learned from the "ground up". This technical session will explore various approaches to establish fissile material process design criteria and provide practical applications. Documentation of NCS design criteria, philosophies, or principles applied to the design of new facilities are reviewed. Implementation of current regulations, standards, or procedures to real world facility design practices and principles are presented.

**Session Organizers:** Lon Paulson, GE-Hitachi Nuclear Energy and David Hayes, LANL

## **NCSD 2009**

### **Nuclear Criticality Safety Division Topical Meeting**

**September 13-17, 2009 Richland, Washington**

<http://www.ncsd2009.com>

#### **Technical Program**

The following general subjects are proposed for the technical program:

##### **Realism and Criticality Safety:**

- Input data
- Cross sections
- Modeling
- Accident scenarios

##### **Applications and Realism:**

- Benchmark selection
- Tsunami and other methods
- Sub-critical Measurements
- Burn-up credit applications

##### **Robustness in controls:**

- Development of Criticality Controls
- Requirements documents DOE, NRC
- Standards role
- Implementation of Criticality Controls
- Examples
- International experience

##### **Ready for the Renaissance:**

- Status and scope of GNEP
- Criticality safety needs for the fuel cycle (enrichment, fabrication, transportation, storage and disposal)
- Harvesting existing benchmark data (fuel cycle and nuclear data)
- In-situ measurements
- Criticality safety and engineering design
- Use of computers in operations controls
- People needs, training and education

**Panel discussion:** “Are We Ready?”

Additionally, there are at least 3 workshops planned for the Topical on MCNP, SCALE, and DICE (ICSBEP Database).

## **NCSD Sessions for the 2009 ANS Winter Meeting in Washington DC**

### **1. Data, Analysis, and Operations for Nuclear Criticality Safety – Contributed**

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**Session Organizer:** Nichole Ellis, Ellis Nuclear Engineering LLC

### **2. Nuclear Criticality Safety Standards Forum – Panel**

Subcommittee ANS-8, Operations with Fissile Material Outside Reactors, meets to discuss various technical and administrative aspects of the approximately 20 national consensus standards under its purview. In addition to status and progress updates by representatives of individual working groups, formal presentations on the technical bases of numerical values such



as subcritical limits and experiences with applications of particular standards are solicited. Agenda topics such as new and expanded standards are also encouraged.

**Session Organizer:** Tom McLaughlin, LANL-retired

### **3. Highlights from the NCSD2009 Topical Meeting - Contributed**

This session is intended to capture presentation highlights from the NCSD2009 Topical Meeting, September 13-17, 2009. A set of highlight papers from the Topical will be selected based on the review of full paper contributions to the Topical meeting. The authors of these papers will be notified and asked to participate in this session. The presentations at the National (Winter'09) meeting will include updates based on audience feedback and commentary. The selected papers will address the following technical subject areas: Realism in Benchmark Selection and Modeling Assumptions; Realistic Safety Margins; Robustness in the Development of Criticality Controls; Realism in the Application of the Double Contingency Principle; Criticality Safety Needs to Support the Global Renaissance of Nuclear Power, including training, education and workforce needs. This session will bring the highlights of the Topical Meeting to a more diverse audience.

**Session Organizer:** Michael Brady-Raap, PNL

### **4. Improvements in Nuclear Criticality Safety Controls - Contributed**

One of the objectives of NCS is to establish controls that are not likely to fail. This includes utilization of technology, training, and changes in equipment design to make the mesh the controls with the normal operations. The objective is to make it easy to do it right and hard to do it wrong. In this session, papers should focus on how NCS controls have been improved or developed to improve the robustness of the controls. Specific examples would be beneficial.

**Session Organizer:** Larry Wetzel, B&W

**Also, at the 2009 ANS Winter Meeting there will be an Embedded Topical for the Young Members Group and the NCSD has the following session as part of the YMG Topical:**

### **Next Generation of Nuclear Criticality Safety Professionals – Contributed**

The nuclear criticality safety discipline is faced with competing demands of growth in the nuclear power industry; namely, how do we assure an adequate talent pipeline to maintain current and future staffing needs at existing and planned new fissile process facilities? This session encourages current practitioners to provide information about facility-specific resources used to train and qualify new NCS staff. This session also encourages practitioners to provide examples of NCS work experiences including (but not limited to) advancements in methods, criticality safety analyses format / content improvements, controls flowdown to operations personnel, and NCS training awareness program improvements. New or prospective criticality safety practitioners are encouraged to participate to learn about the diverse skill sets required in this important discipline and the resources available to facilitate developing that expertise.

**Session Organizers:** Lon Paulson, GE-Hitachi Nuclear Energy and Mikey Brady Raap, PNL

## ***Education Committee***

*Sedat Goluoglu, Education Committee Chair*

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(865) 574-5255

The Education Committee met at the Reno meeting. There are currently five approved White Papers. They are listed below.

<b>Topic</b>	<b>Revision</b>
Education Committee Overview	Revised 6/06 (Rev 0)
Definition of a CSE Specialist	Revised 6/06 (Rev 0)
Successful NCS Mentorship Program	Revised 6/06 (Rev 0)
Acceptable Evaluation of NCS	Revised 6/06 (Rev 0)
Nuclear Criticality Accidents In The Workplace: Fact Sheet	Revised 6/06 (Rev 1)

One White Paper was withdrawn, “CSE Specialist Training & Qualification,” since ANSI/ANS-8.26 has been issued. There is one White Paper that is out for comment until December 31, 2008. The title is “Realism in the Assessment of Fissionable Material Operations Outside Reactors.” You can review it on the [NCS D website](#), and provide comments to David Hayes or Sedat Goluoglu.

## ***NCS D Awards Dinner***

*Maria LeTellier, Awards Committee Chair*

[letellierms@y12.doe.gov](mailto:letellierms@y12.doe.gov)

(865) 241-3458

The NCS D Awards Dinner was held at the Silver Peak Restaurant and Brewery. Approximately 75 people attended. In fact, we had more people than the restaurant could accommodate in their banquet hall, so they moved us to the main dining area. A social was held from 6 – 7 pm. The dinner was held at 7 pm followed by the award ceremony.

Two Division awards were presented at the Winter meeting in Reno, NV. The citations are shown below:

### **TECHNICAL EXCELLENCE AWARD**

**Dr. Richard D. McKnight** was recognized in the area of ENDF Nuclear Data testing and validation. Dr. McKnight worked in this field for several decades and served as a committee chair for much of that time. He was involved in the pre-analysis and post-analysis for several Argonne National Laboratory critical experiments and has subsequently evaluated and/or

reviewed several ZPR and ZPPR experiments for the International Criticality Safety Benchmark Evaluation Project (ICSBEP), thus making them available to the criticality safety community. As chair of the Nuclear Criticality Safety Program's (NCSP) Nuclear Data Advisory Group, Dr. McKnight has helped focus several elements of the NCSP and has helped shape the critical / subcritical experiment design effort. Dr. McKnight's dedication, expertise, attention to relevant detail, and gifted problem solving and decision-making abilities has earned him the respect of nearly everyone with whom he associates. He is an example of technical excellence and a mentor to all who will listen. With these experiences and skills, Dr. McKnight has become a leader in the international criticality safety and nuclear data communities.

## **DISTINGUISHED SERVICE AWARD**

**Calvin M. Hopper** was recognized for distinguished service to the Division in governance, standards, and international work. Calvin Hopper has been a practicing nuclear criticality specialist for over thirty years. He has served in all of the NCSD governance roles and chaired the 2005 NCSD topical meeting. Calvin currently chairs N-16 and serves on the ANS Standards Board. Additionally, he has served as convener of ISO/TC-85/ SC-5/WG-8 for many years and currently serves as the Overall U.S. Advisor for ISO/TC-85/SC-5. He has also been secretary of ANS-8, chair of ANS-8.7 and member of ANS-8.1, -8.20, -8.23 and -8.26.

During his professional career, Mr. Hopper served as the co-chair of the NCTSP and had a major role in the design and implementation of the NCSP as the DOE response to DNFSB Recommendation 97-2. Currently he serves as the deputy chair of the NCSP CSSG, and he developed and led the NCSP AROBCAD Sensitivity/Uncertainty Methods Work Element.



Dr. Richard McKnight, holding his award plaque. Jim Morman, Award subcommittee chair, is shown at right.



Calvin Hopper, accepting his award from Maria LeTellier, Awards committee Chair

Nominations are being sought for both of these awards for next year. Information on the awards is available on the NCSD website <http://ncsd.ans.org/site/awards.html>. Nominations and questions should be sent to Maria LeTellier.

In addition, two best paper awards were presented:

**Larry L. Wetzel** for his paper entitled *Criticality Safety Computational Issues of Loosely Coupled Systems*, presented at the ANS 2007 Winter Meeting in Washington, D.C.

**Kevin Kimball**, for his paper entitled *Impact of NDA Uncertainties on NCS at the K-25 Site*, presented at the ANS 2008 Summer Meeting in Anaheim, CA. Kevin's other paper at that meeting was a close second-place!

The best paper awards are presented based on tabulation of scoring ballots distributed to everyone attending the NCSD sessions. Your vote counts, so always hand or mail in your ballots when you attend sessions. The awards committee is looking for a member to help with administering these best paper awards. If interested, please contact Maria LeTellier.

### ***NCSD Website News***

The NCSD website is coming back to life.

Some of the changes include under the [Meetings](#) link are the information on upcoming meetings along with a summary of the Reno meeting. Some of the presentations from the Reno meeting are available on the same page. A page with pictures from Reno is linked off the MEETINGS page.

Check out the [NCSD](#) website, and while there, enter or update your information on the [Address Book](#). If you have suggestions for the website, send them to Larry Wetzel ([llwetzel@babcock.com](mailto:llwetzel@babcock.com)).



Nicole Ellis (left), Program Committee Chair, presenting best paper award to Kevin Kimball. Larry Wetzel, the other best paper awardee is shown in the background.