



Message from the Chair

Warm regards to NISD members! Thanks for the opportunity to serve as your Chair of this active Division. We accomplished much under the leadership of Eric Beckjord, and applauded his work and dedication at the June meeting. The plaque NISD presented to Eric reads "With Special Appreciation for his work to assure that Safety continues to be a primary component of our Society's Mission". This recognizes Eric's successful push to maintain safety consciousness paramount for ANS (and in our Mission Statement), as he has done with the nuclear industry throughout his career. Congratulations and thanks to Eric!

We remain on the brink of renewed opportunity for new nuclear technology applications and facilities. The tragic, unfortunate events of September 11th have raised the threshold of the commitment that each of us must make to deliver on these promising opportunities. The need for nuclear technology benefits remains great; the technical challenges have grown. Where can you help ANS to build a stronger, safer industry capable of achieving this development? We have a heightened requirement for accurate public safety information concerning nuclear installations. We must promote our safety culture and technical advances through our Society's forums. And we must invite the emerging generation of nuclear technologists to help us all to succeed.

More than ever, the Society needs to provide credible information on the safety of nuclear installations so that the public can understand and respond to initiatives for enhanced safety at existing and new facilities. Each of you is, or is striving to become, a technical expert in this arena. ANS seeks help in improving the technical quality, accuracy, and modes of dissemination of public information. This includes website information, as well as presentation material for other forums. NISD members wishing to help make these improvements should contact ANS (Sharon Kerrick) or me.

Bob Lowrie, Chip Martin, and incoming Secretary, Undine Shoop with the NISD Program Committee are pushing the envelope to deliver full and timely NISD technical sessions to the National meetings. We supported two Embedded Topical meetings, four Special Sessions and two General Sessions in Milwaukee. In Reno, there are seven Special Sessions and three General Sessions, and for Hollywood, Florida we have targeted eleven Special Sessions. These actions anticipate your support. Expanding the quality and quantity of technical papers requires added effort. We need volunteers to organize and chair sessions and to develop and promote our new technical program tracks. Please contact the committee leads to participate, or drop-in at the Program Committee meeting in Reno.

NISD is committed to building for the future with the technical talent of the students that are selecting our career paths. The Executive Committee continues to support student travel to national meetings. We have provided \$500 in funding for the Embedded Student meeting in Reno and \$1,500 in awards and

program funding for the 2002 ANS Student Conference at Penn State in April. If you or your company can help the students in making this Conference more successful with funds or participation as judges or recruiters, please see Page 3 for contact information. For those of you attending the Reno meeting, please participate in the Mentoring Program for students. Last meeting's eager students outnumbered the mentors. Taking a little of your meeting time to welcome students and provide guidance will be a rewarding investment to you and to NISD. Register on the ANS website or show up at 5:00 PM on Sunday.

Your support is welcome in all of these and other areas. Please email or call Executive or Program Committee members, or join us at our meetings. See you in Reno!

Stephen P. Schultz, Chair

NISD Officers 2001-2002

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Honors and Awards

Bill Burchill

Nominating

Eric Beckjord ebackjord@worldnet.att.net



Upcoming Meetings

June 2002 in Hollywood, Florida

NISD needs your ideas for sessions to be held at the upcoming 2002 Winter Meeting. Consideration of these sessions will be conducted at the Reno, NV meeting in November so time is short. Please note that the concept need not be elaborate at this time. The information required to promote a session includes: (i) Session Title (ii) Session Organizer, (iii) Session Chair (If available), (iv) Short Description (See above), (v) Session Type (Invited/Stimulated/Panel/Papers)

Please submit your ideas by email to Bob Lowrie, at bob.lowrie@wxsms.com by noon November 11th.

Sessions Scheduled for the ANS 2001 Annual Meeting in Reno, NV

Below are the NISD Sessions for the November meeting in Reno. As is done in the program, the sessions in parentheses are co-sponsored by NISD and the sessions with an asterisk are special sessions.

Monday A.M.:

- Nuclear Installations Safety: General.
- Developments in Severe Accident Safety Analyses.
- (Generation IV Nuclear Technologies)
- (*Recent Developments in the Economic Deregulation of Nuclear Power—Panel.)

Monday P.M.:

- * Insights and Advances from the Atomic Energy Society of Japan/American Nuclear Society Embedded Topical Meeting on Safety Goals and Safety Culture [Milwaukee, WI, June 2001]—Panel.
- * Safety Considerations in Generation IV Nuclear Power Systems— Panel.

Tuesday A.M.:

- (Generation IV Roadmap—I.)
- (Environmental Impacts of the Fires at Hanford and Idaho U.S. Department of Energy Sites.)

Tuesday P.M.:

- (* Generation IV Roadmap—II.)
- Reactor Safety: General.
- (* Technological, Safety, and Environmental Aspects of Hydrogen Production and Use—Panel.)
- (Data, Analysis, and Operations for Nuclear Criticality Safety)

Wednesday A.M.:

- * U.S. Department of Energy Facility Safety Culture: Lessons Learned from the 11th Annual Energy Facility Contractors Group Safety Analysis Workshop—Panel.
- (Recent Developments in Emergency Preparedness and Response.)
- (Biology and Medicine: General.)

Wednesday P.M.:

- Probabilistic Safety Assessment.
- * The Potential Roles of Nuclear-Produced Hydrogen in the Future Energy Mix—Panel.
- (Source Term and Accident Analysis.)

Thursday A.M.:

- * Developing an Integrated Vision for Environmental Security and Safety in Nuclear Power Development—Panel.
- (* Control Room Habitability—Panel.)
- * Risk-Informed Regulation Pilot Projects to Reclassify Structures, Systems, and Components: First Results.

Sessions Planned for the ANS 2002 Annual Meeting in Hollywood, Florida

In addition to our general sessions of Reactor Safety: General, Probabilistic Safety Assessment: General, and Nuclear Installations Safety: General, the following special sessions are being organized for the 2002 Meeting in Hollywood, FL

Safety Considerations in Accelerator Driven Facilities. Session Organizers: Robert R. Lowrie (Westinghouse Safety Management Solutions)

Safety Considerations in Design and Operation of New Accelerator Driven Facilities. Session Organizers: Robert R. Lowrie (Westinghouse Safety Management Solutions)

Alternative Source Term Applications to Improve Power Reactor Safety Analysis. Session Organizers: Stephen P. Schultz (Duke Energy)

Control Room Habitability In-Leakage Testing and Evaluation Session Organizers: Stephen P. Schultz (Duke Energy)

Western Assistance in Helping to Improve the Safety of Soviet-Designed Reactors: A Ten-Year Progress Report. Session Organizers: Robert Budnitz (Future Resources Associates Inc.)

Safety and Licensing of Evolutionary Designs for Power Reactors. Session Organizers: H. Peter Planchon (ANL-West)

Safety Considerations in Gen IV Nuclear Power Systems Session Organizers: Linda Hansen (ANL).



Hollywood, FL Sessions (cont'd)

Reactor Utilization of MOX Fuel for Weapons Material Disposition. Session Organizers: Stephen Schultz (Duke Energy) and Undine Shoop (USNRC)

Safety Benefits from the NRC's Risk Informed Power Reactor Oversight Process: Two-Year Progress Evaluation. Session Organizers: Undine Shoop (US NRC) with TXU & NEI

Safety and Licensing Issues Related to PBMR Design. Session Organizers: Anthony J Baratta (Penn State University)

Risk Informing 10CFR50: Options and Progress. Session Organizers: William E. Burchill (Exelon)

Raising the Kursk. Session Organizer: Lew Steinhoff (DOE)

Honors & Awards Committee

The NISD Honors and Awards Committee encourages Division members to submit nominations for the Tommy Thompson and George C. Laurence Pioneering Awards.

The Tommy Thompson Award is given annually to recognize individuals who have made outstanding contributions to the field of nuclear safety, and have provided outstanding leadership and direction to key elements of the world's nuclear safety activities.

The George C. Laurence Pioneering Award is given periodically at the discretion of the Executive Committee when a suitable candidate is nominated. The award is intended to recognize pioneering achievements in nuclear safety technology or its applications.

Nominations should include a letter stating clearly and concisely the basis for the nomination, along with suitable supporting documentation such as the candidate's vita and references to relevant publications. Letters of support for the nomination are also helpful to the committee in its evaluation.

Nominations may be submitted at any time to the Chair of the Honors and Awards Committee. To be considered for the 2002 Awards, nominations should be received by the end of January, 2002.

TOMMY THOMPSON AWARD IN RENO, NV

NISD will award the 2001 Tommy Thompson Award during the ANS Winter Meeting in Reno, NV. The award will be presented to Dr. Bal Raj Sehgal of the Nuclear Power Safety Division of the Royal Institute of Technology in Stockholm, Sweden. The presentation will be made at 1:00 PM on Wednesday, November 14 at the opening of the NISD/HFD/OPD Probabilistic Safety Assessment Session. All

NISD members attending the Reno meeting are urged to be present.

The Tommy Thompson Award was established in 1980 and is given annually to recognize persons who have made outstanding contributions to the field of nuclear installation safety and have provided outstanding wisdom and direction to key elements of the world's nuclear safety activities. The 2001 award was announced during the NISD luncheon at the ANS Annual Meeting in Milwaukee, WI. However, because Dr. Sehgal could not attend that meeting, the award presentation was deferred to Reno.

The Division is making the award to Dr. Sehgal in recognition of his many and wide-ranging contributions to reactor safety covering the fields of neutronics, thermal-hydraulics, and severe accidents. The award is composed of a plaque and a \$1000 honorarium

Past Recipients of the "Tommy Thompson Award"

1980 David Okrent	1981 Norman C. Rasmussen
1982 Hans K. Fauske	1983 Herb Kouts
1983 Reg Farmer	1985 Bob Henry
1986 Pierre Tanguy	1987 Spencer Bush
1988 Chauncey Starr	1989 Adolph Birkhofer
1990 Bob Avery	1991 Francois Cogne
1992 Tom Murley	1993 Cordell Reed
1994 Donald Hurst	1995 Andre Gauvenet
1996 Herb Isbin	1997 Bertram Wolfe
1998 Harold Lewis	1999 George Apostolakis
2000 Annick Carnino	2001 Bal Raj Sehgal



The Penn State ANS Chapter is proud to announce the 2002 ANS/ASME Student Conference, *Back to the Future of Nuclear Technology*, being held April 10th – 13th at the Days Inn Hotel in State College. This conference is designed to provide both informal and academic settings for the participants to interact. Students and young professionals will have the opportunity to present their work to an audience of their peers, as well as potential employers. Career development workshops are also being planned to aid students in their transition into the workforce. Many opportunities exist for companies and professionals to aid in the success of this conference, including sponsorship, career fair involvement, and providing session judges. For information regarding these opportunities or questions regarding the schedule or planned activities, email 2002ans@psu.edu or call Frank Buschman at (814) 865-6351. Information is also available online at www.clubs.psu.edu/ans.



**American Nuclear Society
International Topical Meeting on Probabilistic Safety
Assessment**

"Risk-informed decision making at nuclear facilities"

•• 6-10 October 2002 •• Detroit, Michigan ••

CALL FOR PAPERS

Paper Submission Guidelines

1. Use no more than eight pages (12 pt serif font), including tables, figures, and references. Pages should be formatted for 8.5 x 11 paper with two columns of text and 1 inch margins.
 2. Limit title to ten words; limit author listing to three or fewer if possible.
 3. Papers must be submitted electronically in PDF (Adobe Acrobat) format.
 4. Additional submission guidelines and templates are available on the conference web site.
- Note: Please do not submit abstracts only. The Technical Program Committee will review full papers only.

Conference Chairs

Chair: William O'Connor, *Detroit Edison Fermi 2*
General Chairs: Doug Wood, *Advent Engineering & Joseph Conen, Detroit Edison Fermi 2*
Technical Program Chair: George Apostolakis, *MIT*
Associate Technical Program Chair: Tunc Aldemir, *Ohio State*

Sponsors

- ANS Nuclear Installations Safety Division
- ANS Michigan Local Section
- Canadian Nuclear Society

This is an official call for papers for the PSA '02 Topical Meeting. The review of papers will be conducted entirely in an electronic format. Close adherence to the provided format guidelines will eliminate most problems with electronic submissions. Submissions that do not adhere to the guidelines may be rejected by the Technical Program Committee. All papers must be received by **May 15, 2002** in order to receive consideration for publication and presentation.

Deadlines

Submission of Papers: **May 15, 2002**
Author Notification: **June 28, 2002**
Revised Papers Due: **July 15, 2002**

Major Topics

- Risk-Informed Decision Making
- Risk-Informed, Performance-Based Regulation
- Risk-Informed Licensing of Future Reactors
- PSA Quality
- PSA Standards
- PSA Methodology (Levels 1, 2, and 3)
- Human Performance
- Safety Culture
- PSA Software
- Risk Monitors
- PSA for Low-Power and Shutdown Modes
- PSA Applications to Systems other than Nuclear Power Plants

For more information visit our web site: <http://www.ners.engin.umich.edu/PSAConf>