



Message from the Chair

Greetings and best wishes to NISD members for the Spring of 2001! Big things are appearing on the horizon for nuclear energy. Vice President Cheney said on television last week, "if you're really serious about greenhouse gases, one of the solutions to that problem is to go back and let's take another look at nuclear power, use that to generate electricity without any adverse consequences." About a month ago the Near-Term Deployment Group was established by the Department of Energy to recommend paths leading to one or more new nuclear plants constructed and ready to begin operation by 2010. These are two indicators of fundamental change to come. Hard work lies ahead to realize that goal, but the climate of public opinion has clearly moved since the California rolling blackouts began. I believe NISD members have an important role to play in these unfolding events.

I am pleased to report that the ANS Board recently restored the word safety to the Mission Statement. Those of you who attended the Executive Committee Meeting in Washington DC last November know that there was a lengthy and spirited discussion of why such action was important, and consideration of ways to make it happen. I am convinced that this discussion contributed to the outcome. As a consequence NISD can move forward and put all its energy into its job of promoting safety of nuclear installations, and integrating and disseminating safety information gathered from research and experience.

There were many excellent papers given at NISD sessions during the Washington Meeting. Given the quality of the papers, I was a little disappointed by low attendance at a couple of them. I am well aware of the demands on peoples' stemming from committee and other ad hoc meetings. However, I believe we should focus on how to improve session attendance. I am sure NISD members can help. Increasing attendance is good for NISD and its members.

The Executive Committee has voted to support student travel to national meetings for some time to my knowledge. Fred Sears and I received letters of thanks from two students who thereby were able to attend the Washington Meeting. It is good to know that they benefited from and appreciated the opportunity.

Policy Statements. Mohammad Modarres presented his first draft of a Risk-Informed Policy Statement at the November Executive Committee Meeting. He will revise the draft following receipt of comments, and send out a near-final draft for review before the June meeting in Milwaukee. Jan Van Erp discussed the draft Policy Statement on Nuclear Facilities and Research and Test Reactors. He had expected to receive suggestions from the Research and Test Reactor Committee, but they were delayed. Jan hopes to receive them soon. I would like to see both Policy Statements considered and approved by the Executive Committee at the June meeting.

Lew Steinhoff and the Program Committee completed their work on the 11th Annual energy Facility Contractors Group Safety Analysis Workshop topical meeting in Milwaukee; and have made plans for PSA '02, including selection of the Michigan Section to organize it. Well done Lew and associates! Plans for the Joint ANS/AESJ Meeting on Safety Goals and Safety Culture at Milwaukee are complete. I look forward to excellent papers and discussions, and also growing attendance as another indicator of a resurgent nuclear industry. See you in Milwaukee!

*Eric S. Beckjord
Chair*

ANS Winter Annual Meeting Milwaukee, WI – June 17-21, 2000

The preliminary program for the upcoming Milwaukee meeting can be found at:

<http://www.ans.org/meetings/pdfs/2001/am2001.pdf>

Members are encouraged to attend the NISD-sponsored sessions along with the following division meetings:

Executive Committee

Monday 5:00-8:00 pm, Room 201-C

Program Committee

Sunday 7:30-11:00 pm, Manager's Suite

Michigan Section Awarded 2002 Probabilistic Safety Assessment Topical Meeting

The Program Committee of the Nuclear Installation Safety Division (NISD) has awarded the 2002 *Probabilistic Safety Assessment Topical Meeting* to the Michigan Section of the American Nuclear Society. The meeting is planned for a metropolitan Detroit in early October 2002.

The Michigan Section was one of three local sections to bid on the meeting.

Doug Wood, Advent Engineering Services, and Linda Bugoci (Fermi 2), are General Co-Chairs. Technical leadership for the meeting is provided by Dr. Georges Apostolakis (MIT) as the Technical Program Chair (TPC), and Dr. Tunc Aldemir (Ohio State) as the Assistant TPC.



NISD Technical Sessions -- Milwaukee, WI Meeting

The following is a list of NISD sessions for the upcoming Milwaukee summer meeting:

Safety of Nuclear Power Reactor Installations in a Deregulated Environment

Panel Session - Monday 1:00 p.m.

Organizer: Steve Schultz

- Stephen Floyd (NEI)
- Herbert N. Berkow (NRC)
- E. L. (Ted) Quinn (MDM Eng)
- Ronald E. Hagen (DOE) (To be confirmed)
- Kenneth R. Caraway (Duke Power) (To be confirmed)

Modeling Shutdown Operation Risk (sponsored by OPD, co-sponsored by HFD and NISD)

Panel Session - Monday 1:00 p.m.

Organizer: Dennis Henneke

- Jeff Julius (Sciencetech)
- Mary Drouin (NRC)

New Developments for Control Room Habitability Evaluation and Analysis

Panel Session - Tuesday a.m.

Organizer: Steve Schultz

- Kurt O. Cozens (NEI)
- Robert B. Harvey, Jr. (Duke Eng)
- John J. Hayes, Jr. (NRC)
- Gregory Jarosz (Transco)
- Peter L. Lagus (Lagus Appl Technol)
- Kenneth J. Taplett (South Texas Project)

Implementation of Alternative Source Term Technology to Improve Nuclear Installation Safety

Panel Session - Tuesday p.m.

- John N. Hamawi (Duke Eng)
- Jay Y. Lee (NRC)
- Thomas J. Mscisz (Exelon Corp) (To be confirmed)
- Kerry L. Basehore (Dominion Energy) (To be confirmed)

Insights and Highlights from the Embedded Topical Meeting "International Meeting on 'Best Estimate' Methods in Nuclear Installations Safety Analysis," Washington, D.C., Nov. 2000.

Panel Session - Wednesday a.m.

- Organizer: Mike Modro
- S. Michael Modro (INEEL)
- Jared Wermill (NRC) (to be confirmed)
- Vladimir Blinkov (Elektrogorsk Research and Engineering)
- Yassin Hassani (Texas A&M) (to be confirmed)
- Francesco D'Auria (Istituto Di Impianti) (to be confirmed)

Nuclear Safety Analysis (co-sponsored by OPD)

Stimulated Papers - Wednesday 1:00 p.m.

- LOCA Simulation Test of the Cladding for High-Burnup Fuel, Yoshinori Taniguchi, Tamotu Murata (Nucl Industries), Shigeru Urata, Taku Sato (Kansai Electric)
- Thermal-Shock Behavior of PWR High-Burnup Fuel Cladding Under Simulated LOCA Conditions, Honma Kozo (MHI)
- LOCA Analysis in a Pebble Bed Reactor, Tieliang Zhai, Hee Cheon No, Andrew Kadak (MIT)
- Visual and Thermal Study of Boiling in Downward-Facing Pressurized Narrow Gap, Yong-Hoon Kim (Seoul Natl Univ.)
- Implementation of Gap Cooling Phenomena into MELCOR, Jong-Hwa Park, Dong-Ha Kim (KAERI)
- Verification Study of Heat Transfer Models in Narrow Gap, Tamio Kohriyama, Michio Murase, Yukimitsu Okano (Inst of Nucl Safety System), Alexandre Ezzidi (CSD-Japan)
- Release of a Molten Material in Skull Melting, Seong-Wan Hong, Beong-Tae Min, Hee-Dong Kim (KAERI)

Nuclear Safety: Operational Aspects (co-sponsored by OPD)

Stimulated Papers - Thursday 8:30 a.m.

- Demonstrating the Link Between Safety Culture and Competitiveness, H. Elliot Chakoff, James E. Slider (TevaMetrics)
- Significance of Alternate Decay Heat Removal (ADHR) Analysis for Reducing Outage Time at Dresden, LaSalle, and Quad Cities, Kevin B. Ramsden, Candice Y. Chou (Exelon)
- Hazard Analysis of Passive System, Luciano Burgazzi (ENEA-Italy)
- Application of Wavelet Transform for Cable Aging Assessments, Chul-Hwan Kim (Sung Kyun Kwan Univ)
- Data Communication in a Nuclear Digital I&C System: The Korean Experience, Tae Wook Lim, Jae Youb Byun (KOPEC-Korea), James S. Jhun (Sargent & Lundy)
- Effects of a Feed and Bleed Operation Using POSRVs at KNGR, Soo Yong Park, Dong Ha Kim (KAERI-Korea)
- Advanced Tooling Technology is Key to Safety and Performance, Dane Piatt, Mike Welch (WSI)

Eleventh Annual EFCOG SAWG Embedded Topical Meeting, June 14 – 21, 2001 --- Milwaukee, WI

The Eleventh Annual Department of Energy Facility Contractors Group (EFCOG) Safety Analysis Working Group (SAWG) Workshop is an embedded topical meeting to the Annual Meeting of the American Nuclear Society (ANS), June 17 – 21, 2001. The Westinghouse Savannah River Company, and its subsidiary, Westinghouse Safety Management Solutions LLC are the Workshop sponsors. The EFCOG Safety Analysis Working Group and the Nuclear Installation Safety Division of ANS are co-sponsors.

The 2001 SAWG Workshop is an annual DOE, DOE Contractor and stakeholder meeting emphasizing safe operation and utilization of existing facilities, new missions within the DOE Complex, research & development operations, consolidation of strategic infrastructure, and dispositioning of older, nonviable facilities. The meeting will provide a forum for safety analysts and sharing of lessons learned, operational insights, and unique solutions to Complex-wide issues. Implementation of the Nuclear Safety Management Rule (10 CFR 830), Accident & Consequence Modeling, Natural Phenomena Hazards, Regulatory Issues, Integrated Safety Management Process Implementation, Worker Safety, D&D, Updating the Authorization Basis, Safety Analysis of "non-standard" facilities and other pertinent topics shall be covered.

This is the first SAWG Workshop as an ANS embedded topical, and participants from the collocated ANS General Meeting and the ANS/Atomic Energy Society of Japan Topical Meeting on *Safety Culture and Safety Goals* are welcome to attend. It is also the first Workshop to be conducted near a Department of Energy Office of Nuclear Energy laboratory (Argonne National Laboratory).

The Embedded Workshop will offer training and courses in fourteen technical areas, sixty-five paper presentations in twelve sessions, invited, and five panel discussions over an eight-day period. ANS Technical tours are planned for nearby research and commercial nuclear facilities, including facilities of Argonne National Laboratory and the University of Wisconsin.

General John A. Gordon, Undersecretary for Nuclear Security, and Administrator, NNSA, will provide the Keynote address on Tuesday morning, June 19, 2001. Mr. Ambrose L. Schwallie, Chairman, President, and CEO, Washington Government, will be the speaker at the Safety Contractors luncheon.



Upcoming Meetings – June 2002 in Hollywood, Florida

Interested in promoting, organizing, or chairing a Special Session for the Annual meeting June 9-13, 2002 (Hollywood, Florida)? Send an email with your ideas and /or summaries to: Steve Schultz, NISD Special Session Coordinator (spschultz@duke-energy.com)

Atomic Energy Society of Japan/American Nuclear Society Embedded Topical Meeting on Safety Goals and Safety Culture

NISD is co-sponsoring two embedded topical meetings during the June Annual ANS Meeting. The first topical, the Atomic Energy Society of Japan and American Nuclear Society Meeting on Safety Goals and Safety Culture, begins Monday afternoon, June 18, 2001. Four sessions are planned

- Opening Plenary
- Defining Safety Goals
- Defining Safety Culture and the Nexus Between Safety Goals and Safety Culture
- Implementing and Measuring Safety Goals and Safety Culture.

Dr. Richard A. Meserve (Chairman, USNRC) and Dr. Shojiro Matsuura (Chairman, Nuclear Safety Commission – Japan) are Co-Chairs for the Embedded Meeting.

Upcoming Meeting - Reno, NV November 2001

Preparations are well underway for the 2001 Winter Annual meeting in Reno, NV from November 11th to 15th. Paper summaries are due by June 26 and you can find the call for papers at:

<http://www.ans.org/meetings/pdfs/2001/wm-cfp.pdf>

The following NISD sessions are in the works:

Reactor Safety – General

PSA - General

Nuclear Installation Safety – General

"Developing Integrated Vision for Environmental Security and Safety in Nuclear Power Development," Session Organizers: Robert Nitschke and Michael Modro (INEEL).

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

"Safety Considerations in Gen IV Nuclear Power Systems" Session Organizers: Linda Hansen (ANL) and Joe Green (Stone & Webster).

"Risk Informed Regulation Pilot projects to Reclassify Structures, Systems, and Components: First Results", Session Organizer: William E. Burchill (Exelon).

"DOE Facility Safety Culture: Lessons Learned from the 11th Annual EFCOG Safety Analysis Workshop," Session Organizer: Kevin O'Kula (Westinghouse Safety Management Solutions).

"Environmental Aspects of the Use of Hydrogen as a Primary Energy Carrier," Session Organizers: Jan Van Erp (ANL) and Joe Green (Stone & Webster).

"Developments in Severe Accident Safety Analyses", Session Organizers: Undine Shoop (NRC) and Joe Green (Stone & Webster).

"Insights and Advances from the AESJ/ANS Topical Meeting on Safety Goals and Safety Culture (Milwaukee, Wisconsin-June 2001)," Session Organizers: Ed Fuller and Shunsuke Kondo.

Program Committee News

Many thanks are due to Kevin O'Kula, our Topical Meetings Coordinator, for handling the Request for Proposals effort supporting PSA '02. The bids were good ones and we ended up selecting the Michigan Section to organize the Meeting. Details will come out later on this meeting so that you all can mark your calendars. By the way, joining Kevin and me on the bid review team, we had Undine Shoop, Chip Martin and Carol Smidts. Thanks to each of them for their assistance.

Thanks also to Bob Lowrie, Vice Chairman/NPC representative for all his hard work handling the electronic Paper Review and all the details associated with the logistics of the meeting in Milwaukee. This whole process was new and Bob went up to Chicago and worked with other Divisions to make sure the appropriate sessions were placed in the right Tracks for the meeting. He has also handled the calendar placement stuff associated with our upcoming Topicals. A big supporting player in all this has been Steve Schultz, our Special Sessions Coordinator. He has been able to assure that the Panel Sessions are taking shape for the upcoming Milwaukee meeting and continues to stay on top of the special session papers. Many of you assisted in the actual reviewing of papers and that was much appreciated. Thanks to all.

The Program Committee organization is taking shape. Carol Smidts has agreed to be the Chair of the PSA Topical Standing Committee and Rusi Taleyarkhan has agreed to be the Chair for the Advanced Nuclear Installations Safety Topical Standing Committee (beginning in June '01). Thank you Carol and Rusi. We have another Topical Standing Committee for the Operational Nuclear Installation Safety but as we've discussed previously, we may be replacing that meeting with another Topical in the near future. I also wanted to mention that we have a new member on the Program Committee; Herb Massie of the DNFSB. So, welcome to Herb.

*Lew Steinhoff
Program Committee*



Brief Biographical Sketch of Saul Levine

- prepared by Joseph A. Murphy and Robert J. Budnitz

Saul Levine was a dominant force in the Regulatory Staff of the old AEC in the 1960s. Virtually every major decision made by the Regulatory Staff during the 1960's passed his desk, and bore his imprint. A graduate of the U.S. Naval Academy in Annapolis, Saul Levine learned reactor technology through the Naval Reactor program, and the Polaris program. He did his graduate work at MIT, and received the Nuclear Engineer's Degree.

Saul Levine was the project staff director for the Reactor Safety Study from 1972 to 1976. In a testimonial to Mr. Levine, published in the proceedings of the ANS Topical Meeting PSA-85 shortly after his death in 1984, Prof. Rasmussen stated "As we all know, the final report of the project, the Reactor Safety Study, is sometimes referred to as the Rasmussen report. It more properly should be referred to as the Levine-Rasmussen report."

After the Reactor Safety Study, Saul Levine became Deputy Director, then Director of the Office of Nuclear Regulatory Research at the Nuclear Regulatory Commission. In this role, he forged many of the international ties for cooperative research that still exist and was responsible for a research program of greater than \$200M per year. Perhaps his greatest legacy rests in the area of risk assessment. He promoted an active research effort to develop further the ability to assess risks, and how to use that information in a regulatory concept. He saw the potential benefit of its use to improve regulation and included the first risk-based prioritization of generic safety issues in 1978, and the study of the reliability of auxiliary feed water systems.

Saul Levine had a fine grasp of technical matters. He left his imprint on many of the early regulatory approaches still in use. His personality was also gigantic. He learned some of his management skills from Admiral Rickover. Excellence was expected.

Saul Levine was a leader, and most of his troops would have followed him anywhere. Working for him was exciting, inspiring; and he could instill a sense of purpose. Once you worked for Saul Levine, you were never the same. His sense of dedication became part of you.

In 1980, he retired from federal service and became Vice President of NUS Corporation. He promoted the use of risk insights to improve the efficiency of nuclear power plants. He assembled a team of highly regarded experts and successfully introduced PRA thinking to several clients both international and domestic.

Saul Levine had a great interest in training and education. While at the NRC he strengthened the NRC program of support for training and education. He served as a lecturer in numerous courses and workshops. He died in 1984 while lecturing in a course on nuclear safety.

Saul Levine's exemplary career of dedicated leadership and service to the nuclear community make it most fitting to honor his memory by establishing an ANS scholarship in his name.

**NISD
Officers 2000-2001**

Eric S. Beckjord **Chair**
2909 29th St NW
Washington, D.C. 20008-3416
Tel: (202) 234-5546
Fax: (202) 462-9414
Email: ebeckjord@worldnet.att.net

Stephen Schultz **Vice Chair**
Duke Power Company
Mail Code ECII-09A
526 South Church Street
PO Box 1006
Charlotte, NC 28201-1006
Tel: (704) 373-8499
Fax: (704) 382-3993
Email: spschultz@duke-energy.com

C. Frederick Sears **Secretary/Treasurer**
109 Wildercrest Lane
Port Matilda, PA 16870-9415
Email: cfsnuc@engr.psu.edu

Executive Committee:

Sharon S. Kerrick (Staff Liason)	skerrick@ans.org
Joseph C. Braun [Ex-Officio]	joebraun@anl.gov
Michael W. Golay [2001]	golay@mit.edu
Ivan Catton [2001]	catton@seas.ucla.edu
Frank J. Rahn [2001]	frahn@epri.com
Paul J. Amico [2002]	paul.j.amico@cpm.saic.com
John E. Kelly [2002]	jekelly@sandia.gov
Pete Planchon [2002]	pete.planchon@anl.gov
Shunsuke Kondo [2003]	kondo@sk.t.u-tokyo.ac.jp
Jan B. Van Erp [2003]	vanerp@aol.com
Joe Green [2003]	joseph.green@stoneweb.com

Program

Lew Steinhoff Lewis.Steinhoff@ns.doe.gov
Tel. (202) 586-3856
Fax. (202) 586-1966

Honors and Awards

Bill Burchill

Nominating

Robert J. Budnitz budnitz@pacbell.net

Webpage & Newsletter

Joe Green joseph.green@stoneweb.com