



### Message From the Chair By Michael Corradin

As the new Chair of the Nuclear Installations Safety Division for this year, I wanted to give my regards to the NISD members. NISD is one of the largest Divisions in the ANS, and we have made major contributions to our society.

Let me discuss some of the major priorities for the Division through the next couple of years. You can also read about these priorities and other key information about NISD at our website: <http://nisd.ans.org/>.

First, as engineers in the nuclear industry, we all need to be vigilant to help maintain and improve the safety at existing nuclear facilities. The industry enjoys an excellent safety record and this provides reliable power and simultaneously builds public confidence in expanded use of nuclear power. Future expansion of nuclear power is contingent on the continuance of this excellent safety record. NISD seeks to provide a better understanding of the role of safety in the design, construction and operation of nuclear installation facilities. We also promote engineering and scientific technology advancement related to safety of such nuclear facilities and any associated engineering advancements. As a professional society, our division is committed to sponsoring topical meetings and technical sessions at national meetings that advances the state of knowledge related to safety and that interest NISD members and the ANS membership at-large. We also bring together international experts to discuss key safety analyses and innovative designs.

Second, we must ensure that safety-related technology and expertise is preserved for future generations of nuclear engineers and other safety professionals. This is true for both operating reactors and advanced reactor systems. To meet this challenge, NISD has a major focus in collaborating with ANS student members, the ANS Young Members Group (YMG) and Women in Nuclear (WIN) in promoting safety topics. We strongly encourage all of our membership to engage young nuclear professionals on safety. Finally, many of our members are participating in the ANS President initiative in advanced small modular reactors and technical options for safe disposition of used fuel.

The NISD Executive Committee maintains a strategic plan for the Division, which can be found on this website via the Mission button above. If you have any questions or comments, please contact me at [corradini@engr.wisc.edu/](mailto:corradini@engr.wisc.edu/).

### Program Committee By Robert Andre

The NISD will have nine sessions at the Las Vegas meeting, as follows:

- After Yucca Mountain: What Next?—Paper/Panel, Mon. p.m.
- Studies of Iodine Chemistry—I, Tues. a.m.
- Studies of Iodine Chemistry—II, Tues. p.m.
- Severe Accident Management Studies, Wed. a.m.
- Lessons Learned from Efforts to Assess or Regulate Safety Culture—Paper/Panel, Wed. p.m.
- Advanced Reactor Safety Design, Analysis, and Regulation, Wed. p.m.
- Addressing Current Issues in Reactor Safety Analysis and Design, Thurs. a.m.

- Highlights from the 2nd International Meeting on the Safety and Technology of Nuclear Hydrogen Production, Control, and Management—Panel, Thurs. a.m.
- Improving Reactor Safety Analyses, Thurs. p.m.

Three of these sessions are of special interest as they present results of international research on reactor accidents. The sessions will focus primarily on the behavior of radionuclides under both design-basis and severe reactor accidents. The sessions on Studies of Iodine Chemistry I and II deal with the behavior of iodine in reactor containments during accidents. Presentations in these sessions will feature experimental and analytic results obtained in the Behavior of Iodine project underway in Canada under the auspices of the OECD, the EPICUR project within the Phébus-ISTP program underway in France and sponsored by a variety of countries, as well as some important new results from Japan. The session on Severe Accident Management Studies will be focused primarily on recent results from the ARTIST program underway at the Paul Scherrer Institut in Switzerland and involving aerosol behavior within steam generators of PWRs. NRC will provide a presentation on how the research results are being used in the regulatory process.

These three sessions will present original work not previously aired within the USA. It can be anticipated that the results of this work will figure in any modernization of accident source terms used in the licensing and regulation of current and future nuclear power plants.

### Probabilistic Safety Assessment 2011 By Phillip Ellison

PSA 2011, March 13-17<sup>th</sup>, 2011 is being held on the historic river front district in Wilmington, North Carolina. Wilmington has a moderate coastal climate, sandy beaches and a small town resort atmosphere. We have roughly 200 abstracts submitted on a wide range of PSA concepts, with passive systems reliability receiving a large number of submissions and an impressive list of Key Note Speakers.

NISD and the newly formed Wilmington Area Local Section of the ANS are sponsoring PSA 2011. PSA 2011 celebrates 30-plus years of Topical Meetings on Probabilistic Safety Assessment and those individuals who, through insight and individual dedication, have made PSA Technology and the ANS Topical Meetings very successful.

There is financial support to help offset student attendance at PSA 2011, along with a best student Paper Award sponsored by NISD. Please Contact John Bennion ([john.bennion@ge.com](mailto:john.bennion@ge.com)) or a member of the organization committee for details.

The call for papers has been extended for those still interested in submitting a paper or abstract; in addition please contact one of the committee members for special needs/considerations. For the call for papers and additional information on PSA 2011 see the conference Website at <http://www.psa2011.org/> or E-mail:

Organization	<a href="mailto:phil@psa2011.org">phil@psa2011.org</a>
Technical Program	<a href="mailto:dennis@psa2011.org">dennis@psa2011.org</a>
Hotel/Exhibits/Workshops	<a href="mailto:karen@psa2011.org">karen@psa2011.org</a>



## Honors and Awards By Phillip Ellison

NISD will present the George C. Laurence pioneering award at the Winter 2011 meeting to Prof. Raj Seghal for his work in nuclear safety. For those in attendance, please attend the Honors and Awards luncheon and congratulate Prof. Seghal on his lifetime achievement.

Prof. Seghal will also be presenting a paper at the Winter 2011 meeting; he welcomes attendance and discussion with all.

The NISD Honors and Awards committee is soliciting nominations for the Tommy Thompson and George C. Laurence awards for 2011. Nominations should be made by December 31, 2010 for consideration for 2011.

## Scheduled NISD Meetings

All NISD members are welcome to attend the following NISD committee meetings at the November 2010 Meeting in Las Vegas, NV:

- Executive Committee: Sunday, 7:30 P.M. – 9:00 P.M.  
LOCATION: Capri 114
- Program Committee: Sunday, 4:00 P.M. – 6:00 P.M.  
LOCATION: Capri 114

The Executive and Program Committees invite NISD members to express their interest in serving on those committees, particularly by participation in one or both of the indicated meetings.

Members may also wish to attend the Honors & Award Luncheon on Tuesday November 9, 11:30am-1:00pm in the Top of the Riviera South. Tickets can be purchased in advance or on-site at the ANS Registration Desk for \$50.

## Student Scholarships Sponsored By NISD By Phillip Ellison

NISD hosts the Saul Levine and Raymond DiSalvo Memorial Scholarships. These two scholarships will be awarded in 2011.

Scholarship descriptions can be accessed at the NISD Website. If applying, be certain to describe your future goals of continuing Saul Levine and Ray DiSalvo's lifelong goal of making continual improvements to nuclear safety.

Undergraduate and graduate students interested in applying for these scholarships can access the Eligibility Requirements and Application Form at: <http://www.ans.org/honors/scholarships>.

## ANS Student Conference 2011

The Georgia Institute of Technology American Nuclear Society Student Section will host the conference on April 14-17, 2011 in Atlanta, Georgia. Details of the conference, including the call for papers can be accessed at the conference website (<http://conference.gtans.org/2010/06/welcome-to-the-2011-ans-student-conference-website/>).

A successful student conference depends on the continued support of the nuclear industry. The Georgia Institute of Technology cordially invites industry participation in:

- Recruitment
- Sponsorship and advertisement
- Workshops and Seminars
- Professional keynote presentations
- Judging
- Tours

## NURETH-14

Canada is the hosting country for the 14th International Topical Meeting on Nuclear Reactor Thermalhydraulics (NURETH-14) on September 25-29, 2011 in Toronto. NURETH-14 will gather an international group of leading academic and industry researchers and practitioners engaged in engineering and scientific work focused on nuclear reactor thermalhydraulics. The conference website, including the call for papers can be accessed at <http://www.cns-snc.ca/events/nureth-14/>

## NISD Website

As of August 2010 the NISD Website has a new feature whereby presentations from NISD sponsored Panel Discussion at the annual meetings can be viewed. To do so go to the website and click on the "Panel Presentations" button. The NISD Website may be accessed directly at <http://nisd.ans.org> or indirectly at <http://www.ans.org>.



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