

# **ANS<sup>®</sup> Winter** 24 Conference and Expo **NOW COMES THE HARD PART...**



## **Honors and Awards Recipients**

November 17-21, 2024  
Orlando, FL | Renaissance Orlando at SeaWorld

### **EMBEDDED TOPICAL CONFERENCES**

**Advances in Thermal Hydraulics (ATH 2024)**

**Decommissioning Environmental Sciences and  
Remote Technology 2024**

**Radiation Protection and Shielding Division 2024 (RPSD 2024)**

# **ANS<sup>®</sup> Winter** 24 Conference and Expo

## **ANS Opening Plenary Session Awards**

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Monday, November 18, 2024  
8:00–11:30AM



### **Presentation Of Awards**

Dr. H.M. Hashemian  
Honors and Awards Committee Chair

## **Award Recipients**

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### **ANS Fellow**

**Seaborg Medal**

**E. Gail de Planque Medal**

**Mary Jane Oestmann Professional Women's Achievement Award**

**Untermeyer & Cisler Reactor Technology Medal**

**Social Responsibility in the Nuclear Community Award**

**Landis Public Communication & Education Award**

**Young Members Advancement Award**

**Young Member Excellence Award**

**Standards Service Award**

**Henry DeWolf Smyth Nuclear Statesman Award**

### **Seaborg Medal**

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*Presented to:*

**Dr. Hisashi Ninokata**

*Politecnico di Milano*

In recognition of his seminal contributions to the field of computational thermal-hydraulics and his internationally recognized contributions to the development and safety analysis of liquid metal reactors.

# OPENING PLENARY SESSION AWARDS

## ANS Fellow

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*Presented to:*

**Dr. Stephen M. Bajorek**

*U.S. Nuclear Regulatory Commission*

**Scientific or technical leadership in a nuclear enterprise of substantial scope.**

In recognition of his outstanding technical contributions in advancing the field of nuclear reactor thermal hydraulics, in particular his contributions in enhancing the TRACE code performance, and his leadership in the development of the NRC strategy for analysis of non-LWRs, devising the BlueCRAB (Comprehensive Reactor Analysis Bundle) suite.

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*Presented to:*

**Prof. Travis W. Knight**

*University of South Carolina*

**Outstanding leadership as a teacher in the nuclear field.**

In recognition of his creative leadership that has advanced nuclear science and engineering education by building a new program at the University of South Carolina together with novel collaborations to help make the region a hub for nuclear technology.

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*Presented to:*

**Lake Barrett**

*L. Barrett Consulting, LLC*

**Outstanding efforts in the areas of nuclear health, safety, safeguards, or regulation.**

In recognition of being a prominent spokesperson for the responsible use of nuclear energy and technology. Especially, for leading onsite Nuclear Regulatory Commission reactor accident recovery efforts at Three Mile Island and the Department of Energy work on the management and disposal of high-level radioactive waste.

# OPENING PLENARY SESSION AWARDS

## E. Gail de Planque Medal

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*Presented to:*

**Dr. Kathryn McCarthy**

*Oak Ridge National Laboratory*

In recognition for her enduring leadership, supported by a deep understanding of nuclear science and engineering, which has supported and continues to support national and international programs in both fusion and fission power engineering.

## Mary Jane Oestmann Professional Women's Achievement Award

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*Presented to:*

**Amy Welty**

*Idaho National Laboratory*

In recognition for her key role in building the nation's supply of high assay low enriched uranium for advanced reactors as primary investigator for Idaho National Laboratory's Material Recovery Pilot Plant (MRPP). She and her team have performed critical reaction tests needed for elutriation of high enriched uranium.



*Presented to:*

**Dr. Elena Tajuelo Rodriguez**

*Oak Ridge National Laboratory*

In recognition for her pioneering research on irradiation effects in nuclear concrete materials to advance scientific knowledge, and her dedication to mentoring and inspiring women in nuclear engineering.

# OPENING PLENARY SESSION AWARDS

## Untermeyer & Cisler Reactor Technology Medal

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*Presented to:*  
**Dr. Vivek Agarwal**  
*Idaho National Laboratory*

In recognition for his career innovations that automate routine activities, improving the economics, performance, and capacity of current light water reactors. Also, for pioneering new processes for higher levels of automation across different reactor technologies using artificial intelligence and machine learning.

## Social Responsibility in the Nuclear Community Award

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*Presented to:*  
**Clarice Phelps**  
*Oak Ridge National Laboratory*

In recognition of her dedication and sustained outreach efforts to promote diversity, equality and inclusion in the scientific community and beyond. Her passion for providing science and technology education and opportunities to young people in underserved communities are broad-reaching and impacts both current and future generations of scientists.

## Landis Public Communication & Education Award

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*Presented to:*  
**Samuel Bays**  
*Idaho National Laboratory*

In recognition of his Nuclear Science Merit Badge and STEM activities with the BSA Grand Teton Council that engage scouts in Idaho, and his dedication to mentoring young people to consider a career in nuclear science.

# OPENING PLENARY SESSION AWARDS

## Landis Public Communication & Education Award

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*Presented to:*

**Steve Rea**

*Heyward Incorporated (retired)*

In recognition of his effective advocacy on behalf of nuclear technology, nuclear education, and workforce development in North Carolina and nationally. In particular, his founding of the North Carolina Nuclear Energy Industry Advisory Council.

## Young Members Advancement Award

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*Presented to:*

**Kenneth Petersen**

*KSP Consulting*

In recognition of his tireless effort to raise up Young Members and give them an unprecedented platform to grow and succeed within the American Nuclear Society. Your contributions to Young Members will not be soon forgotten.

## Young Member Excellence Award

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*Presented to:*

**Kelsey Amundson**

*Los Alamos National Laboratory*

In recognition of her extraordinary service and contribution to the growth and progress of Young Members in the American Nuclear Society. She has championed YM causes for over a decade, and her efforts have led to unprecedented success for Young Members and the Society at large.

# OPENING PLENARY SESSION AWARDS

## Young Member Excellence Award

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*Presented to:*

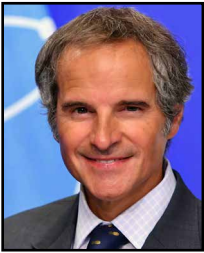
**Pierre-Clement Simon**

*Idaho National Laboratory*

In recognition of his breakthroughs in fission and fusion research, where he has developed advanced modeling and simulation tools to accelerate energy deployment as well as his role as chair of the Idaho National Laboratory Early Career Researchers Association, where he has provided guidance and mentoring to other scientists and made transformative improvement to the culture at Idaho National Laboratory. In addition to his work at INL, PC has also excelled as co-chair of the YMG programming committee, where his dedication to organizing quality content has inspired countless Young Members.

## Henry DeWolf Smyth Nuclear Statesman Award

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*Presented to:*

**Rafael Mariano Grossi**

*International Atomic Energy Agency*

In recognition of his exceptional leadership, unwavering commitment to nuclear safety, and significant contributions to the global nuclear community. Especially, for leading IAEA initiatives to ensure the safety and security of nuclear facilities in Ukraine.

## Standards Service Award

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*Presented to:*

**Larry Wetzel**

*BWXT (Retired)*

In recognition of over twenty years of participation and leadership in ANS-8 standards, service on the Nuclear Criticality Safety Consensus Committee, work stressing the importance of standards to young professionals, and efforts highlighting the importance of synergy among the ANSI/ANS standards to maintain safe operation of nuclear facilities.

# Awards Not Presented

## Nuclear Historic Landmark Award

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*Presented to:*

### **Armour Research Foundation Reactor** *Illinois Institute of Technology*

At this site, from 1956 to 1967, stood the world's first privately owned and operated nuclear reactor, here on the Illinois Tech campus on Chicago's south side. The reactor was funded by Illinois Tech and 25 industrial partners to provide a new tool for industry to improve human welfare.

# Glenn T. Seaborg Congressional Science and Engineering Fellowship

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*The 2025 fellowship has been awarded to:*

### **Jacob Christensen** *Brigham Young University*



### **Dr. Michael Woosley** *Data Development Partners*



## COMMITTEE AWARDS

### Local Section Meritorious Awards (ETWDD & LSC)

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The Local Section Meritorious Award is presented to the ANS local sections that have conducted the most worthwhile events; have shown outstanding membership growth, participation, and administration during the award year.

*This year's recipients are:*

#### **Trinity Local Section**

*Best Overall*

#### **Arizona Local Section**

*Best Meetings and Programs*

#### **Savannah River Local Section**

*Best Public Information & Education and Best Membership*

#### **Idaho Local Section**

*Best Section Management*

### Samuel Glasstone Awards (ETWDD & SSC)

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The Samuel Glasstone Award recognizes outstanding ANS Student Sections.

*This year's recipients are:*

*Best Section (tie)*

#### **Missouri University of Science and Technology**

#### **Pennsylvania State University**

*Second Place (tie)*

#### **University of Illinois, Urbana Champaign**

#### **University of Puerto Rico, Mayagüez**

# **ANS® Winter** 24 Conference and Expo

## **ANS Tuesday Plenary Award**

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Tuesday, November 19, 2024

8:00–9:45AM

### **Presentation Of Awards**

Lisa Marshall  
President 2024-2025  
American Nuclear Society



## **Award Recipients**

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### **Presidential Citations**

#### **Milton Levenson Distinguished Service Award**

### **Milton Levenson Distinguished Service Award**

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*Presented to:*

**Dr. N. Prasad Kadambi**

*Kadambi Engineering Consultants*

In recognition of outstanding service to the nuclear industry and the ANS in leadership on risk-informed, performance-based conceptual development and the implementation of that concept in the U.S. Nuclear Regulatory Commission and ANS policy and standards.

# TUESDAY PLENARY AWARDS

## Presidential Citations

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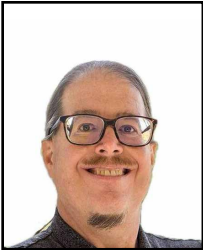


*Presented to:*

**Dr. Corey K. McDaniel**

*Kiewit*

For his involvement as president of the Pacific Nuclear Council and general chair of the PBNC 2024. Over the years, he has gone all out for the Society, including establishing an ANS local section in India while working abroad.



*Presented to:*

**Prof. Jeffrey C. King**

*Tennessee Tech University*

For his activities and actions to support the US goal towards space nuclear deployment and overarching efforts.



*Presented to:*

**Dr. Arnold Lumsdaine**

*Oak Ridge National Laboratory*

For his continued contributions to the Fusion Energy Division and efforts to make the American Nuclear Society a place for fusion engineers.

# TUESDAY PLENARY AWARDS

## Presidential Citations

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*Presented to:*

**Catherine M. Prat**

*Westinghouse Electric Company*

For her work in organizing and moderating the President's Special Session at the 2024 Annual Conference and for her significant contributions to the development of the Licensing and Regulation Certificate and participation on the ANS Special Committee on Certification.



*Presented to:*

**Dr. Joshua L. Vajda**

*UCOR United Cleanup Oak Ridge*

For his extraordinary contributions to the development of the Licensing and Regulation Certificate and for his leadership in creating the Certified Nuclear Professional exam and participation on the ANS Special Committee on Certification.



*Presented to:*

**Dr. Walid A. Metwally**

*Oak Ridge National Laboratory*

For his exemplary leadership in the development of the Nuclear 101 Certificate Course and for his significant contributions to the ANS Special Committee on Certification.

## DIVISION AWARDS

### Mark Mills Award (ETWDD)

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*Presented to:*

**David Reger**

*Idaho National Laboratory*

**For his work entitled:**

*Improving the modeling of near-wall interphase heat transfer in porous media models of Pebble Bed Reactors.*

### Robert L. Long Training Excellence Award (ETWDD)

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*Presented to:*

**David W. Helling**

*Westinghouse*

In recognition of over fifty years of engagement and leadership in naval, commercial and university nuclear training and education.

### Radiation Science & Technology Award (IRD)

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*Presented to:*

**Prof. Steven Biegalski**

*Georgia Institute of Technology*

For his significant impact in radiological science by establishing nuclear analytical methods for energy storage materials characterization, developing isotopically pure radioxenon production to support global nuclear monitoring efforts, and advancing nuclear forensics.

## DIVISION AWARDS

### Theos J. “Tommy” Thompson Award (NISD)

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*Presented to:*

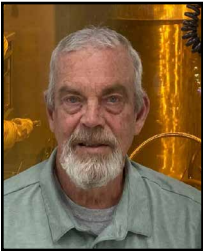
**Dr. Nathan O. Siu**

*U.S. Nuclear Waste Technical Review Board*

For exceptional contributions to fire risk analysis, uncertainty analysis, and dynamic probabilistic risk assessment.

### RRSD Significant Achievement Award (RRSD)

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*Presented to:*

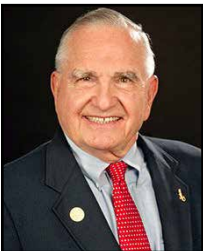
**David C. Dunning**

*Oak Ridge National Laboratory*

In recognition of being instrumental in the development of the remote handling processes and the tooling required to support the first-of-its-kind mercury process system at ORNL's Spallation Neutron Source (SNS).

### Ray Goertz Award (RRSD)

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*Presented to:*

**Prof. James S. Tulenko**

*University of Florida*

In recognition of outstanding contributions to the field of Robotics and Remote Technology.

## DIVISION AWARDS

### Bal-Raj Sehgal Memorial Award (THD)

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*Presented to:*

**Dr. Igor Bolotnov**

*North Carolina State University*

For his innovative research contributions to reactor thermal hydraulics and safety modeling through the state-of-the-art high resolution computational techniques.

### Technical Achievement Award (THD)

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*Presented to:*

**Dr. Xiaodong Sun**

*University of Michigan*

For his significant technical contributions in advancing the fundamental knowledge of thermal hydraulics through experiments, yielding novel insights and improving modeling to support nuclear power utilization.

## Division and Committee Acronyms

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**ETWDD - Education, Training and Workforce Development  
Division**

**FED - Fusion Energy Division**

**IRD - Isotopes and Radiation Division**

**LSC - Local Sections Committee**

**NISD - Nuclear Installations Safety Division**

**RRSD - Robotics & Remote Systems Division**

**SSC - Student Sections Committee**

**THD - Thermal Hydraulics Division**

**YMG - Young Members Group**

# DIVISION AWARDS

## Student Design Competition (ETWDD)

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Teams will present their work in Canaveral 1 on Monday, November 18, 2024 from 3:15–5:00 PM EST.

The following are the finalists in the undergraduate category (in no particular order):

***Radiological Assay of Burrowing Animals***

University Tennessee, Knoxville

Authors: Evan Godbehere, James Pierce, Kip Wheeler, and Jolyne Worthy

***Event Sequence Quantification and Consequence Development of the Full Scope Dynamic Probabilistic Risk Assessment for PULSTAR Research Reactor***

North Carolina State University

Authors: Lauren Kohler, Noah Etter, Nolan Ritchie, and Mihai A. Diaconeasa

***Investigating a Fast Static Fueled Molten Salt Reactor for Wasteburning***

Georgia Institute of Technology

Authors: Matthew Louis, Nathan Tanzosch, Jaden Minnick, and Alicia Borel

***Utilizing AP1000 TPBAR Optimization to meet Fusion Energy Tritium Demand***

Texas A&M University

Authors: Aaron Rodriguez, Bryce Harris, Camden Ulteig, Marion Munoz, and William Reed