



ANS[®] Winter Meeting & Expo

November 13–17, 2022 **2022**
Arizona Grand Resort | Phoenix, AZ

*Challenge
Accepted*

Honors and Awards Recipients

EMBEDDED TOPICAL MEETING

International High-Level Radioactive Waste Management
(IHLRWM 2022)



American Nuclear Society

ANS Opening Plenary Session Awards

Monday, November 14, 2022
8:00–11:00AM



Presentation Of Awards

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

Award Recipients

ANS Fellow Inductions

Seaborg Medal

E. Gail de Planque Medal

Mary Jane Oestmann Professional Women's Achievement Award

Reactor Technology Award

Social Responsibility in the Nuclear Community Award

Landis Public Communication and Education Award

Young Members Advancement Award (YMG)

Young Member Excellence Award (YMG)

Standards Service Award

Division Acronyms

ETWDD - Education, Training and Workforce Development Division

INSC - International Nuclear Societies Council

IRD - Isotopes and Radiation Division

LSC - Local Sections Committees

OPD - Operations & Power Division

THD - Thermal Hydraulics Division

YMG - Young Members Group

Opening Plenary Session Awards

ANS Fellow



Presented to:

Dr. Ryan G. McClarren
University of Notre Dame

In recognition of his pioneering contributions that have significantly advanced predictive modeling and simulation capability for time-dependent radiation transport phenomena. His innovative and rigorous numerical techniques and analysis that have impacted diverse areas within nuclear energy, inertial confinement fusion experiments, and stockpile stewardship science.

Seaborg Medal



Presented to:

Dr. Steven J. Zinkle
University of Tennessee, Knoxville

For innovative research enabling an improved understanding of structural material performance limits in reactors, and for developing practical design strategies for new high-performance radiation-resistant materials.

Opening Plenary Session Awards

E. Gail de Planque Medal



Presented to:

Lauren Dawn Thew
BCP Engineers & Consultants

In recognition of outstanding technical leadership in new nuclear construction projects and extraordinary perseverance in the face of adversity.

Mary Jane Oestmann Professional Women's Achievement Awards



Presented to:

Dr. Assel Aitkaliyeva
University of Florida

For leadership in advancing understanding of nuclear fuels, establishing novel nuclear fuels characterization laboratory, and dedication to diversity in nuclear sciences



Presented to:

Dr. Catherine L. Riddle
Idaho National Laboratory

For dedication to nuclear science and technology research and the education and professional development of young researchers in the field of nuclear science and radiochemistry.

Opening Plenary Session Awards

Reactor Technology Award



Presented to:

Dr. Koroush Shirvan
**Massachusetts Institute of
Technology**

For his engineering and scientific contributions to the economic viability of safe nuclear power through novel fuel designs and understanding of chemical interactions under irradiation.

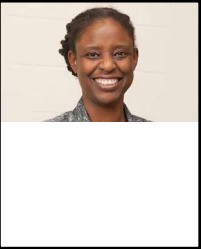
Social Responsibility in the Nuclear Community Award



Presented to:

**Diversity and Inclusion in ANS
Committee Founders**

Dr. Lane B. Carasik
Virginia Commonwealth University



Lisa M. Marshall
North Carolina State University



Dr. Kalin Kiesling
Argonne National Laboratory

In recognition of establishing the Diversity and Inclusion in ANS Committee.

Opening Plenary Session Awards

Landis Public Communication & Education Award



Presented to:

Jim Walther
**National Museum of Nuclear
Science & History**

For his visionary leadership in furthering public education about peaceful applications of nuclear technology through his role in creating Nuclear Science Week and myriad educational programs

Standards Service Award



Presented to:

Douglas G. Bowen
Oak Ridge National Laboratory

For his many significant contributions and meaningful technical guidance, always blended with professionalism, which have improved the quality of the ANS-8 series of standards to enhance the foundation from which nuclear criticality safety in operations with fissionable materials outside of reactors can be ensured for succeeding generations.

Opening Plenary Session Awards

Young Members Advancement Award (YMG)



Presented to:

Craig H. Piercy
American Nuclear Society

In recognition of his consistent contributions in advancing student and young member participation in the Society through his dedication, service, and leadership.

Young Member Excellence Award (YMG)



Presented to:

Alexandra L. Siwy
U.S. Nuclear Regulatory
Commission

In recognition for exemplary leadership, outstanding service, and notable outreach efforts promoting professionalism, positively representing nuclear technology to the public, and increasing young member engagement.



American Nuclear Society

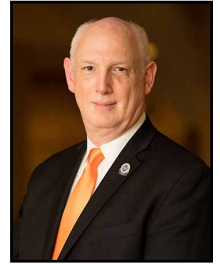
ANS President's Special Session Awards

Tuesday, November 15, 2022

8:00–9:45AM

Presentation Of Awards

Steven A. Arndt, Ph.D., P.E.
2022-2023 President,
American Nuclear Society



AWARD RECIPIENTS

Presidential Citations

ANS President's Special Session Awards

Presidential Citations



Presented to:
Andrew R. Griffith
U.S. Department of Energy

For his significant contributions and dedication to the advancement of the U.S. commercial nuclear industry and the U.S. Department of Energy's Office of Nuclear Energy, supporting the full range of nuclear energy waste management, facility operations, and technology research missions.

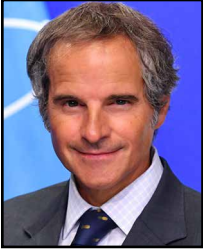


Presented to:
Armond Cohen
Clean Air Task Force

For his leadership in driving change through enlightened and effective advocacy to move our country in the direction of a high energy, zero emissions future at affordable cost using clean energy sources including new and existing nuclear power plants.

ANS President's Special Session Awards

Presidential Citations



Presented to:

**Rafael M Grossi and the
International Atomic Energy
Agency**

For their courageous leadership of the worldwide effort to promote a strong and sustainable global nuclear safety and security framework and their proactive efforts to support the Ukrainian civilian nuclear facilities and workers during military conflict.



Presented to:

Ukrainian Nuclear Workers

For their extraordinary devotion to the principles of safe and secure nuclear power plant operation in the face of the military attack on the Ukrainian nuclear power infrastructure. In particular, ANS acknowledges the dedication of the workers at the Chernobyl and Zaporizhzhya facilities for carrying out their duties during foreign military occupation.

Committee Awards

Glenn T. Seaborg Congressional Science and Engineering Fellowship



Presented to:

Sarah Rachele Stevenson
University of California, Berkeley



Presented to:

Joseph Wayne Orellana
GE Hitachi Nuclear Energy

Local Section Meritorious Awards (ETWDD & LSC)

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:

Best Overall Meritorious

Idaho Local Section

Best Recruiting Program

Idaho Local Section

Best Public Information and Education

United Arab Emirates Local Section

Best Local Section Management

Savannah River Local Section

Best Meetings and Programs

Savannah River Local Section

Committee Awards

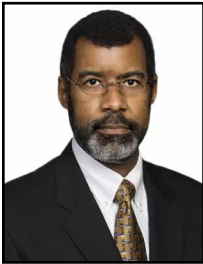
Samuel Glasstone Awards (ETWDD & SSC)

The Samuel Glasstone Award recognizes outstanding ANS Student Sections.

This year's recipients are:

- University of Puerto Rico in Mayagüez, First Place
- University of Illinois, Urbana-Champaign, Second Place
- Missouri University of Science & Technology, Third Place
- University of New Mexico, Third Place

International Nuclear Societies Council (INSC) Global Award



Presented to:

William Donald Magwood, IV
OECD Nuclear Energy Agency

For his outstanding contributions to the promotion of nuclear regulatory programs to highest standards of safety, the set up the Generation IV International Forum as well as for expanding OECD Nuclear Energy Agency relations with members and institutions of different countries in Europe, Asia and Latin America.

The award will be presented at the INSC 02/2022 Meeting on November 15, 2022 in Camelback D.

Division Awards

Mark Mills Awards (ETWDD)



Presented to:

Ibrahim Jarrah
University of Illinois, Urbana
-Champaign

For his work entitled: *Nodal integral methods in general 2D curvilinear coordinates - applied to convection–diffusion equation in domains discretized using quadrilateral elements. (PhD thesis title: Nodal Integral Methods for Heat and Mass Transfer in Curvilinear Coordinates)*



Presented to:

John L. Pevey
University of Tennessee, Knoxville

For his work entitled: *Neural Network Acceleration of Genetic Algorithms for the Optimization of a Coupled Fast/Thermal Nuclear Experiment*

Student Design Competition (ETWDD)

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

The Small, Uranium-based Molten Salt (SUMS) Reactor

Georgia Institute of Technology

Authors: Alex England, Sam Heflin, MaryEmma Hughes, Marina Polegenko,
and Luke Wells

Advisor: Bojan Petrovic

(BWR) British Water Reactor

University of Florida

Navid A. Aslani, Madison N. Bushloper, Matthew B. Harper, Ginger Lucas,
and Mitch Mika

Advisor: Dr. DuWayne L. Schubring

Design of a Machine Learning Tool for Predictive Emergency Response

Purdue University

Authors: Zachery Dahm, Sarah McCauley Kannapell, and William Kelley

Advisor: Dr. Shripad T. Revankar

SMRs and Thermal Energy Storage on Decommissioned Nuclear Sites

University of Massachusetts at Lowell

Authors: Mustapha Zakeri, Ankit Mishra, and Lohith Annadevula

Advisor: Dr. Suresh K. Aghara

Radiation Science & Technology Award (IRD)



Presented to:

Dr. Lin-Wen Hu
Massachusetts Institute of Technology

For outstanding contributions to innovative research reactor applications to study radiation effect and transport of high-temperature molten salt for demonstrating Molten Salt Reactor concepts.

Meritorious Performance in Operations Award (OPD)



Presented to:

Advanced Test Reactor Team
Idaho National Laboratory

In recognition of INL's dedicated Advanced Test Reactor workforce successfully completing ATR's 6th core internals changeout - a complete overhaul and the most complex outage in its history.

The award will be presented at the the Nuclear Historic Landmark Award and Walter Zinn Medal Special Session.

Bal-Raj Sehgal Memorial Award (THD)



Presented to:

Prof. Annalisa Manera
ETH Zürich

For her novel contributions to high-resolution thermal-hydraulics experiments, and the development of innovative multiphysics and multiscale CFD-based computational tools for nuclear reactor applications. Award will be presented at the 20th International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-20).

Technical Achievement Awards (THD)



Presented to:

Dr. Upendra Rohatgi
Brookhaven National
Laboratory and Energy

For his exceptional contributions to thermal-hydraulic theory and applications, experimental facility scaling, numerical methods, and verification and validation of software.



Presented to:

Dr. Bao-Wen Yang
DEQD Institute for Advanced
Research in Multiphase Flow and
Energy

For his significant and impactful contributions to the advancement of rod bundle CHF, subchannel thermal-hydraulics, advance fuel design, and reactor safety. The THD Technical Achievement Awards will be presented at the THD Award Ceremony Monday, November 14.