





Nuclear is good for you.



ANS Winter Meeting

November 15-19, 2020

Honors and Awards Recipients













American Nuclear Society

ANS Opening Plenary Session Awards

Monday, November 16 10:00 am-12:30 pm (EST)

AWARD RECIPIENTS

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

ANS Fellow Inductions Seaborg Medal E. Gail de Planque Medal Mary Jane Oestmann Professional Women's Achievement Award Landis Public Communication and Education Award Young Members Advancement Award (YMG) Young Member Excellence Award (YMG)

Division Acronyms

ETWDD - Education, Training and Workforce Development Division NISD - Nuclear Installations Safety Division IRD - Isotopes and Radiation Division THD - Thermal Hydraulics Division RPSD - Radiation Protection & Shielding Division YMG - Young Members Group

Plenary Session Awards ANS Fellows



Presented to: Dr. David L. Aumiller BMPC

For innovative and significant contributions in the development, verification, qualification, and application of advanced nuclear reactor safety analysis methods and codes; increased fundamental knowledge of thermal hydraulic processes; and the development of advanced code coupling methodologies.



Presented to: Dr. J. Rory Kennedy Idaho National Laboratory

For transforming the way research and development for nuclear fuels and materials is conducted. His influence, leadership, and tireless advocacy for researchers have significantly impacted the global nuclear energy enterprise.



Presented to: Dr. Karen Vierow Kirkland Texas A&M University

For significant research contributions in two-phase flow, condensation heat transfer, and severe accident phenomena in nuclear reactors to improve understanding of nuclear reactor performance, reactor safety, and severe accident management strategies, along with education and professional mentoring of university students.

Plenary Session Awards ANS Fellows



Presented to: Dr. David J. Kropaczek Oak Ridge National Laboratory

For innovative development and application of computational methods to solve nuclear fuel cycle optimization problems for pressurized and boiling water reactor systems, including first-of-a-kind application of large-scale combinatorial optimization techniques related to design of fuel assemblies, core loading patterns, operating strategies, and multi-cycle planning.



Presented to: Ms. Evelyn M. Mullen PE Los Alamos National Laboratory

For ensuring the nation's Criticality Experimental capability and for leadership in the field of nuclear national security.



Presented to: Prof. Lin Shao Texas A&M University

For his contributions in understanding fundamental radiation materials science and in developing accelerator ion beam techniques and the contributions as an educator and mentor to nuclear engineering students.

Plenary Session Awards ANS Fellows



Presented to: Dr. Michael L. Zerkle Naval Nuclear Laboratory

In recognition of distinguished and influential original research, advocacy, and scientific contributions in:

- 1. Development of specialized reactor physics methods incorporated into advanced reactor design
- 2. Meticulous and expert validation of national nuclear data libraries
- 3. Development of innovative thermal neutron scattering evaluation methods for advanced moderators using first-principles atomistic modeling.

Seaborg Medal



Presented to:

Prof. Michael Z. Podowski Rensselaer Polytechnic Institute

For long-time leadership and outstanding scientific and engineering research achievements to advance safety and efficiency of nuclear energy generation worldwide.

E. Gail de Planque Medal



Presented to: Ms. Kliss McNeel Fluor Idaho

For inspirational vision and outstanding leadership in creating ESH&Q and assurance programs integral to the safe and environmentally protective cleanup of national and international nuclear-legacy projects

Mary Jane Oestmann Professional Women's Achievement Award



Presented to: Dr. Maria Okuniewski Purdue University

For her dedication to nuclear materials research and the education and professional development of young researchers in the field of nuclear materials science and engineering

Landis Public Communication & Education Award



Presented to: Mr. William G. Wabbersen, Jr. National Nuclear Security Administration

For his origination and development of cross-cutting, innovative educational tools to introduce nuclear science concepts to tens of thousands of students of every age, through the Interactive Nucleus Display (2010), the ANS Isotope Discovery kit (2013), and culminating in the Isotopes App (2020).

Young Members Advancement Award (YMG)



Presented to: Ms. Lisa Marshall North Carolina State University

For her significant contributions in advancing student and young members through her dedication, service, and leadership.

Young Member Excellence Award (YMG)





Mr. Tim Crook MCR Performance Solutions, LLC

and

Mr. Matthew D. Wargon TerraPower, LLC

Tim and Matt embody the ANS YMG Excellence Award with their tireless efforts in enabling young and student members toward nuclear science, engineering, and technology.



American Nuclear Society

ANS President's Special Session Awards

Wednesday, November 18 10:00-11:30 am (EST)

AWARD RECIPIENTS

Presentation Of Awards Dr. Mary Lou Dunzik-Gougar ANS President

Presential Citations Milton Levenson Distinguished Service Award

ANS President's Special Session Awards Presential Citations



Presented to:

Chairman Kristine L. Svinicki U.S. Nuclear Regulatory Commission

For demonstrated leadership in transforming the Nuclear Regulatory Commission during the on-going COVID-19 Public Health Emergency into a global leader in demonstrating adaptive, flexible, and innovative approaches to nuclear regulation without compromise to safety.



Presented to: Leah Spradley Parks U.S. Nuclear Regulatory Commission

For outstanding leadership and efforts in advancing diversity, equity, and inclusion efforts within the nuclear community.



Presented to: Prof. Dan Gabriel Cacuci University of South Carolina

For over thirty years of dedicated leadership and service as the Editor of Nuclear Science and Engineering, a peer-reviewed journal of the American Nuclear Society from 1986 through 2019.

ANS President's Special Session Awards Presential Citations



Presented to:

Hon. Rita Baranwal, PhD Assistant Secretary for Nuclear Energy U.S. Department of Energy

For the vision and leadership to drive the transformation of nuclear science and energy programs, especially the demonstration and deployment of advanced U.S. reactors, and dedication to public service and unwavering commitment to the use of nuclear technology to the betterment of mankind.

Milton Levenson Distinguished Service Award



Presented to:

Dr. Kevin R. O'Kula Amentum Technical Services

For demonstrated leadership, professionalism and dedication for over 38 years in the field of Nuclear Engineering supporting all aspects of DOE and NRC activities. He has authored over 40 papers and provided technical leadership to numerous ANS Programs and conferences. He is an industry expert in the areas of nuclear facility source term evaluations, probabilistic and quantitative risk assessment and severe accident analysis, accident and consequence analysis, source term evaluation, hydrogen safety, software quality assurance and safety analyses.

Awards Presented Elsewhere

Nuclear Historic Landmark



Presented to: Fuel Cycle Facility Idaho National Laboratory

Fuel Cycle Facility with EBR-II demonstrated on-site recycle of used nuclear fuel back into a nuclear reactor.

Nuclear Historic Landmark



Presented to: Tokamak Fusion Test Reactor Princeton Plasma Physics Laboratory

For demonstrating significant fusion energy production and tritium technologies for future nuclear fusion power plants and the first detailed exploration of magnetically confined deuterium-tritium fusion plasmas.

Local Section Meritorious Award

Presented to: Idaho Local Section Best Section Overall

Winner is all four categories:

Membership, Meetings & Programs, Public Information & Education, and Section Management

Standards Service Award



Presented to: Dr. George Flanagan Retired, Oak Ridge National Laboratory

In recognition of his outstanding contributions to ANS standards, serving as chair and member of the Standards Board, chair of the Research and Advanced Reactors Consensus Committee, and chair and member of multiple standards working groups. In particular, his valuable guidance and insightful vision have anticipated many standards needs as technology has advanced.

Standards Service Award



Presented to:

Dr. N. Prasad Kadambi Kadambi Engineering Consultants

In recognition of his significant contributions during more than 40 years in the development of nuclear safety standards for the American Nuclear Society and his leadership at multiple levels of the standards process, including as chair and member of the Standards Board and chair of the Risk-informed, Performance-based Principles and Policy Committee.

Division Awards

Mark Mills Award (ETWDD)



Presented to: Dr. Samuel Joseph Cope North Carolina State University

For his work entitled: Incremental Gains in Transuranic Activity Analysis in Air Samples for Radiological Emergency Response.

Mark Mills Award (ETWDD)



Presented to: Mr. Nathan H. Hart Los Alamos National Laboratory

For his work entitled: High Order Implicit Residual-Based Spatial Discretization Error Estimation for S_N Neutron Transport.

Robert L. Long Training Excellence Award (ETWDD)



Presented to: Mr. Patrick Berry Patrick Berry Consulting, LLC

For sustained excellence in commercial, INPO, NRC, Military and University Training and Education. 12

Robert L. Long Training Excellence Award (ETWDD)



Presented to: Dr. J. Wesley Hines University of Tennessee

For his excellence, innovation, and leadership in nuclear engineering education and training that has supported students and industry.

George C. Laurence Pioneering Award (NISD)



Presented to:

Mr. Stephen Ted Wood Idaho National Laboratory

In recognition of his industry-leading research and development of PRA computational methods and their application in the SAPHIRE risk analysis software.

2020 Theos J. "Tommy" Thompson Award (NISD)



Presented to: Mr. Dennis W. Henneke, PE GE Hitachi

For leadership in the areas of PRA standards, fire PRA, multi-unit PRA, and the PRAs for UK ABWRs, PRISM, VTR, and risk-informed applications.

2020 Theos J. "Tommy" Thompson Award (NISD)



Presented to:

Dr. Mohammad Modarres University of Maryland

For major contributions to the theory and practice of probabilistic risk assessment of nuclear power plants, and leadership in the development of academic programs in safety and reliability.

Radiation Science and Technology Award (IRD)



Presented to: Dr. Kenan Ünlü

Dr. Kenan Unlü Pennsylvania State University

For creative and impactful contributions to research reactor instrumentation and applications.

Technical Achievement Award (THD)



Presented to: Prof. Michael Z. Podowski Rensselaer Polytechnic Institute

For his ground-breaking technical accomplishments in the modeling and computer simulation of single and multiphase flow and heat transfer.



Presented to: Dr. Jeffrey O. Johnson Oak Ridge National Laboratory

For Dr. Johnson's technical leadership in radiation shielding, nuclear nonproliferation missions supporting national and global security, and practical technologies to prevent, counter, and respond to nuclear and radiological terrorism.

2020 Rockwell Lifetime Achievement Award (RPSD)



Presented to:

Dr. X. George Xu Rensselaer Polytechnic Institute

For Dr. Xu's outstanding achievements in research and technological development involving computational human phantoms and advanced Monte Carlo simulation methods that have made significant impact on the practice of radiation protection and medical physics.

Student Design Competition (ETWDD)

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

University of Tennessee Knoxville

Nuclear Thermal Propulsion Reactor Design and Analysis Authors: Alec Cacheris, Brandon Connor, Will Conroy, Aidan Edens Advisor: Jason Hayward

University of Illinois, Urbana-Champaign

Plasma Sustainment and Tin Particle Mitigation in Extreme Ultraviolet Lithography Authors: Alp Aktuna, Kaitlyn Butler, Andrew Fink, Dario Panici Advisor: David Ruzic

Purdue University

Design of a Novel Decision-Making Tool for the Analysis of Protective Actions During a Radiological Release Authors: David Champlin, Mark D'Aloia, Emily Downing, Elizabeth Jaye Advisor: Shripad Revankar

University of Sharjah

Design and Experimental Verification of a Gamma Radiogauge to Detect Water Level in Ballast Tanks in Oil Platforms Authors: Eslam A. Ahmed, Jwaher A. Alnaqbi, Priyonta Rahman Advisor: Walid A. Metwally

North Carolina State University

Design of an Economical Low-Power Fast Spectrum Molten Chloride Reactor Authors:Charles Goodman, Lindsay Verrico, Thomas Thompson, Vincent Novellino Advisor: Scott Palmtag

Alpha Nu Sigma National Honor Society



The Alpha Nu Sigma National Honor Society, established by the American Nuclear Society's Education, Training and Workforce Development Division, recognizes high scholarship, integrity, and potential achievement among outstanding degree-seeking nuclear engineering students at institutions of higher learning. The following individuals have been inducted into the Alpha Nu Sigma National Honor Society in since the last meeting:

Excelsior College-Alpha Nu Sigma

Mr. Derek Bierer Mr. Benjamin Burnett Mr. George Li Cheng Mr. Jonathan Chilton Mr. Nathaniel Glen Cox Mr. Jerry Allen Crittenden Mr. Zane Anthony DeSaveur Mr. Theodore Donald Di Angelo, II Mr. Bryan J. Feola Ms. Miranda Gegner Mr. Warren Anthony Givens Mr. Andrew P. Goerres Mr. Ian Matthew Hagley Mr. Monte Asher Hancock Mr. Devon Taylor Hanlon Mr. Luke Ermine Hannon Ms. Angela Leigh Henderson Mr. Jonathan Hines Mr. Garrett William Holter Mr. Victor Alan Huffstatler Mr. Jeremy Lee Hughes Mr. Kyle Charles Keller Mr. Chad Kitchen Mr. Daniel P. Kohlbrenner Mr. Joseph E. Kole Mr. Corey Sean Murphy, Sr. Mrs. Ashlev Nicole Port Mr. Nicholas Charles Poston Mr. Gamaliel J. Rodriguez, Jr. Mr. Michael Schulte Mr. Kevin Paul Speer

Mr. William Randall Whisenant Mr. Austin Jacob Williams Mr. Tony Dewayne Williams Mr. Michael C. Winsett Mr. Jason James Woodworth Mrs. Julia Wydra Mr. Michael Murray True, Jr.

Kansas State University-Alpha Nu Sigma

Mr. Jace A. Beavers Mr. Logan Brockschmidt Mrs. Rabab R. Elzohery Mr. Rene Fabian Santillana Mr. Lucas Alan Wodrich

Oregon State University-Alpha Nu Sigma

- Mr. Michael Branco-Katcher
- Mr. Cole Erich Evered
- Ms. Lucia Rebeca Gomez Hurtado
- Mr. Matthew Alexander Hageman
- Mr. Joshua Arthur Handley
- Mr. Keenan Hoffman
- Ms. Rebecca Jaronski
- Mr. Brandon E. Kamiyama
- Mr. Michael Aaron Levy
- Ms. Jillian Lea Newmyer
- Mr. Logan E. Schoening
- Dr. Todd R. Smith
- Mr. Ryan E. Wilson
- Mr. Seth Joshua Youtsey