Seale And Annual Conference

ALL IN ON NUCLEAR DEPLOYMENT: The Stakes Have Never Been Higher

Honors and Awards Recipients

June 16–19, 2024 Mandalay Bay Resort and Casino Las Vegas, NV



Opening Plenary Awards

Monday, June 17, 2025 8:00-11:30AM



Presentation of Awards: Hash Hashemian, Honors and Awards Committee Chair

AWARD RECIPIENTS

ANS FELLOW AWARDS

WALTER H. ZINN MEDAL

UNTERMYER & CISLER REACTOR TECHNOLOGY MEDAL (AESJ)

LANDIS YOUNG MEMBER ENGINEERING ACHIEVEMENT AWARD

MISHIMA AWARD

SPECIAL AWARD FOR ACHIEVEMENTS AND CONTRIBUTIONS TO ADVANCING PEACEFUL APPLICATIONS OF NUCLEAR TECHNOLOGY AND ADDRESSING FUTURE CHALLENGES

ANS Fellows



Presented to: Dr. Joe C. Turnage Constellation Energy-Retired

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

In recognition of his visionary leadership and direct contributions to the development of methods for improving nuclear plant performance, and for analyzing utility generating system operating strategy.



Presented to:

Dr. John Mattingly North Carolina State University

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

In recognition of his significant contributions to nuclear nonproliferation research and policy including nuclear data adjustment using subcritical neutron multiplicity counting, wide area radiation source localization using Bayesian inference, technical leadership of the Consortium of Nonproliferation Enabling Capabilities, and in ANS's efforts to promote advanced reactor safeguards.

ANS Fellows



Presented to:

Dr. Bao-Wen Yang

NTUT (National Taipei University of Technology) & DEGNY (Delta Energy Group New York)

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

In recognition of his impactful research and technical leadership in reactor thermal hydraulics, multiphase flow and heat transfer, flow instability, rod bundle critical heat flux, advanced fuel design and qualification, large-scale rod bundle experiments, and subchannel analysis, enhancing modeling capabilities and supporting reactor development.



Presented to:

Dr. Benoit Forget Massachusetts Institute of Technology

Notable original research or invention in the nuclear field.

In recognition of his important and innovative contributions to nuclear reactor analysis, including the development of advanced deterministic transport and Monte Carlo methods that have significantly contributed to high fidelity, multiphysics simulations of nuclear reactors.



ANS Fellows

Presented to: **Daniel L. Churchman** Southern Nuclear Operating Company

Outstanding achievement in design, engineering, or operations in the nuclear power field or other applications of nuclear technology.

In recognition of his outstanding leadership in operations and engineering of commercial nuclear plants, to successfully establish an operational culture and integration into an operational fleet for the first new plants in the US in 30 years at Vogtle 3&4.



Presented to:

Dr. Deborah Ann Hill National Nuclear Laboratory

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

In recognition of her driving growth in people and processes by combining leadership, technical excellence, and strategic focus with a strong and collaborative work ethic. She is an acknowledged expert and a passionate ambassador within the international nuclear criticality safety community and the American Nuclear Society.

ANS Fellows



Presented to: **Dr. Fiona E. Rayment** National Nuclear Laboratory

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

In recognition of being a world-renowned nuclear scientist and engineer whose passion and leadership have enabled advances in nuclear innovation, infrastructure, and talent. She drives thought diversity across everything that she does and has enabled greater commercial-sector and government engagement nationally and internationally.



Presented to: Eugene S. Grecheck Grecheck Consulting LLC

Outstanding achievement in design, engineering, or operations in the nuclear power field or other applications of nuclear technology.

In recognition of leveraged experience gained in leadership in operations and engineering of commercial nuclear plants, to develop innovative solutions and approaches to regulatory and economic challenges, as well as advising a broad spectrum of new nuclear suppliers in assessing safety, economics and market 6 potential of their designs.

ANS Fellows



Presented to: **Dr. Francesco D'Auria** DIMNP - University of Pisa

Notable original research or invention in the nuclear field.

In recognition of his exceptional contributions to nuclear reactor thermal-hydraulics and in particular best estimate plus uncertainty methods, and his impact as an educator on a generation of nuclear engineers.



Presented to:

Dr. Guillermo Ivan Maldonado University of Tennessee Knoxville

Outstanding leadership as a teacher in the nuclear field.

In recognition of his distinguished contributions by the development of modeling and simulation methodologies for the analysis, optimization, and isotopic management of nuclear fuel in LWRs and next generation concepts. He has taught over 1,500 students and mentored 70 graduate degrees leading to over 220 peer-reviewed publications with his students.

ANS Fellows

Walter H. Zinn Medal



Presented to:

Dr. Jun Liao *Westinghouse Electric Company*

Notable original research or invention in the nuclear field.

In recognition of his original research and technical leadership in the development of loss-of coolant accident safety analysis methodologies for PWRs and the design and demonstration of advanced reactors (AP1000, SMR, microreactor and lead cooled fast reactor) with experiments and analyses.



Presented to: Mr. Abdollah Khanpour Kinectrics

For his outstanding leadership, technical expertise and dedicated commitment to the design, construction, and operation of nuclear power plants with utmost priority and respect to nuclear and industrial safety.



Presented to: **Matthew Wayne Sunseri** Zeus Enterprises LLC

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

In recognition of his international executive leadership, nuclear safety insights, and regulatory impact associated with safe operation of nuclear power facilities throughout the world.

Untermyer & Cisler Reactor Technology Medal (AESJ)



Presented to: **Dr. Massimiliano Fratoni** University of California Berkeley

For outstanding contributions to the advancement of nuclear technology, specifically for the groundbreaking development of fluoride-cooled pebble-bed reactors and pioneering work in various other advanced reactor technologies.

Landis Young Member Engineering Achievement Award



Presented to: **Dr. Kevin G. Field** University of Michigan

For groundbreaking research and development of accident and radiation tolerant materials for nuclear power generation and his leadership and mentorship in improving the culture within the field of nuclear engineering.

Mishima Award



Presented to: Dr. M. Grace Burke Idaho National Laboratory

For enduring and exceptional contributions to our understanding of irradiation-induced microstructural evolution.

Special Award For Achievements And Contributions To Advancing Peaceful Applications Of Nuclear Technology And Addressing Future Challenges



Presented to:

Dr. Joshua L. Vajda UCOR United Cleanup Oak Ridge

For notable contributions that have significantly advanced regulatory aspects of the nuclear fuel cycle and admirable leadership in nuclear deactivation and decommissioning efforts. His outstanding achievements advance peaceful applications of nuclear technology, address global nonproliferation, and promote environmental sustainability, aligning with the 'Atoms for Peace' vision.



Tuesday Special Session: Our Friends the Isotopes

Tuesday, June 18, 2024 8:00–9:45AM EDT



Presentation of Awards: Kenneth Petersen President 2023-2024 American Nuclear Society

AWARD RECIPIENTS

PRESIDENTIAL CITATIONS DISTINGUISHED PUBLIC SERVICE AWARD DISTINGUISHED SERVICE AWARD OUTGOING PRESIDENT APPRECIATION

Presidential Citations



Presented to: **Christopher M. Crane** (Exelon-Retired) Posthumously

For his steadfast dedication to excellence in nuclear plant operation. He proved that focusing on operational excellence leads to high levels of safety and performance while maintaining economical production. His pursuit of excellence included an unwavering support of diversity, equity and inclusion that led to superior human performance, community representation, and opportunities for all. Accepting on his behalf: Bryan Hanson, EVP & Chief Generation Officer, Constellation.



Presented to:

Stephen E. Kuczynski Southern Nuclear Operating Company

For Steve Kuczynski, Glen Earl Chick and the entire leadership team involved with Vogtle 3 and 4 nuclear plant construction. The dedication of the team involved in the construction of the first new nuclear units to be built and placed into commercial operation in the United States in over 30 years. The significant challenges overcome by the team are a testament to the dedication of the entire organization involved with the Vogtle project. Completion of this project has helped establish a lasting legacy for the future of nuclear power in the United States and elsewhere.

Presidential Citations



Presented to:

Matthew D. Wargon TerraPower, LLC

For outstanding service to many areas of ANS and in particular as the Chair of the Young Members Group. His passion as YMG Chair will continue to spur young member engagement for years to come.

Presidential Citations

Presented to:

Grace Stanke *Miss America 2023 University of Wisconsin - Madison*

For her outstanding service in advocating for nuclear power as a clean reliable source of energy. During her term as Miss America 2023, she traveled to countless locations including clean energy events and schools, where her legacy will continue to inspire the next generation.



Presented to: **Prof. Elizabeth S. Sooby** University of Texas San Antonio

For outstanding service as Chair of the Diversity and Inclusion in ANS Committee and her steadfast dedication to making ANS a welcoming environment for everyone.



Presented to:

Donald R. Eggett *Eggett Consulting, LLC*

For his longstanding dedication to the American Nuclear Society and his numerous leadership roles over the decades including Chair of the Standards Board.

Presidential Citations



Presented to:

Dr. Steven A. Arndt *Oak Ridge National Laboratory*

For support of the American Nuclear Society, leading several key initiatives while serving as the Immediate Past President including the Certification Program. He has selflessly devoted himself to the mission of the ANS and supporting the nuclear profession.

Outgoing President Appreciation



Presented to:

Kenneth Petersen President, 2023 – 2024

As Kenneth S. Petersen concludes his term, we extend heartfelt appreciation for his service to ANS. Ken's steady and consistent engagement has yielded tangible progress for the Society, including strengthened relationships with major U.S. nuclear utilities, a new mission and vision statement, new headquarters in Chicago and Washington, D.C., and a growing ANS Trustees of Nuclear program. His style of selfless and engaged leadership serves as a model for all of us.

For this and other contributions to ANS and the nuclear community it represents, we thank Ken Petersen for his invaluable contributions.

16 Presented By Lisa Marshall, ANS Vice President, 2023 – 2024



Presented to: **Dr. Madeline A. Feltus** U.S. Department of Energy

In recognition of her dedicated education of students, mentoring young professionals and involvement in ANS at both the national and local section levels.

Distinguished Service Award



Presented to:

Mr. James W. Behrens U.S. Navy

In recognition of his dedicated service and leadership in ANS at both the national and local section levels.

Distinguished Public Service Award



Presented to: **Dr. Kathryn D. Huff** U.S. Department of Energy

For outstanding contributions to the advancement of nuclear energy as a public servant, for enduring engagement with the public, industry, national laboratories, universities, and the U.S. and other governments, to inform on its benefits to the country and the world.

Division Awards

Arthur Holly Compton Award in Education (ETWDD)



Presented to: **Prof. Arthur T. Motta** Pennsylvania State University

For his seminal contributions to the study and education of nuclear materials and for his tireless dedication to nuclear engineering education at Penn State.

Samuel Glasstone Award (ETWDD)

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

Division Awards

FCWMD Significant Contribution Award



Presented to: **Dr. Inés Triay** Florida International University

In recognition of her outstanding accomplishments that significantly advanced the scientific, engineering, societal, and regulatory aspects of the transuranic waste management mission.

FCWMD Lifetime Achievement Award



Presented to:

John H. Strumpell Framatome Inc.

In recognition of his lifetime of pioneering contributions to nuclear fuel reliability, safety, and efficiency, and his role in the development of accident-tolerant fuels.

FCWMD Distinguished Service Award



Presented to: **Steven P. Nesbit** *LMNT Consulting*

In recognition of his decades of dedicated service to the Fuel Cycle and Waste Management Division and to ANS.

Don Miller Award (HFICD)



Presented to: **Dr. Steven A. Arndt** Oak Ridge National Laboratory

In recognition of his outstanding achievements and impact in the areas of I&C assessment and regulation.

Division Awards

Don Miller Award (HFICD)



Presented to:

Richard J. Stattel Nuclear Regulatory Commission (Ret.)

In recognition of his extensive contributions to the advancement of digital instrumentation and controls both domestically and internationally in the nuclear industry.

Ted Quinn Early Career Award (HFICD)



Presented to:

Trevor Taylor *Paragon Energy Solutions, LLC*

For his contributions to critical digital system upgrades and new designs for operating and advanced reactors in design, licensing and operations for high safety-significant systems.

H.M. Hashemian Mid-Career Award (HFICD)



Presented to: Brent D. Shumaker AMS Corporation

For his outstanding contributions to the nuclear I&C profession, in the areas of online monitoring (OLM), condition monitoring, and prognostics.



Presented to: **Dr. Xingang Zhao** Oak Ridge National Laboratory

For his pivotal role in developing and integrating humanmachine interface technologies, particularly digital twins, artificial intelligence, decision science, and prognostics and health management to enhance safety and efficiency of nuclear power plants.

Division Awards

Early Career Reactor Physicist Award (RPD)



Presented to: Prof. Brendan M. Kochunas

University of Michigan – Ann Arbor

For his significant and original research to develop and implement a 3D-transport code, including advanced multiphysics acceleration methods, for practical full-core, pinresolved LWR applications.

Division Awards

Meritorious Service Award (THD)



Presented to: **Prof. Fan-Bill Cheung** Penn State University

In recognition of his long-standing contributions, lifelong leadership, sustained and exemplary service to the nuclear thermal-hydraulics community.



Presented to: **Dr. Christopher M. Perfetti** University of New Mexico

For state-of-the-art advances in the development and application of sensitivity-uncertainty methods for nuclear reactor physics analysis and nuclear criticality safety.

American Nuclear Society Scholarship Award Recipients

ANS's Scholarship Program demonstrates our commitment to educating future professionals. The scholarships recognize the academic excellence of graduate and undergraduate students studying in a nuclear field for the 2024-2025 academic year. This year, ANS awarded \$244,000 in scholarships to 91 recipients. This is possible largely due to generous donations from ANS members, Professional Divisions, individuals, and the commitment of the ANS Board of Directors.

Community College/Trade School Kent Hamlin Memorial Scholarship

Max C. Richardson - Three Rivers Community College

Diversity and Inclusion / NEED Nontraditional Student Scholarships

Aristidis E. Loumis-Demetrakopoulos - Virginia Commonwealth University Ryan P. McGuire - Virginia Commonwealth University Nestor G. Rodriguez-Flores - North Carolina State University

John and Muriel Landis Scholarship

Santiago Bermudez Naranjo - Virginia Commonwealth University Karol Luis A. Dalumpines - Texas A&M University - College Station Victoria A. Davis - Virginia Commonwealth University Mohamed H. Elhareef - Virginia Commonwealth University Laura Khuu - University of California, Berkeley Lauren A. Kohler - North Carolina State University Caitlin A. Martin - University of Florida Abdulrasheed Sado - University of Tennessee, Knoxville

Community College / Trade School

Hannah R. Ballard - Research Medial Center

Undergraduate ANS Incoming Freshman

Ryan Alferink - University of Missouri - Columbia Jaden Auten - North Carolina State University Mason S. Darling - Missouri University of Science and Technology

Thomas A. Hays - Michigan State University Benjamin S. Heinrich - University of Michigan Laura Khuu - University of California, Berkeley Brianna Lannerd - University of Tennessee , Knoxville Katelyn Luu - Georgia Institute of Technology Bradley J. Maher - North Carolina State University Carlos M. Mendez - University of Michigan Ian M. O'Brien - Colorado School of Mines Maddox D. Turner - Arizona State University 26

ANS Undergraduate (Sophomore)

Katarina A. Dries - University of Wisconsin, Madison Jack C. Gerrity - University of Illinois Urbana-Champaign Arnav Goyal - University of Illinois Urbana-Champaign Cecilia J. Harrison - North Carolina State University Owen Strong - University of Illinois Urbana-Champaign

ANS Undergraduate (Junior/Senior)

Sofiia Asadchykh - North Carolina State University Piper R. Fernau - University of Illinois Urbana-Champaign Ulises G. Henriquez - Pennsylvania State University Anastasia Kaurova - Oregon State University Eirena M. Klemes - North Carolina State University Eli P. Logan - University of Tennessee-Knoxville Jessi A. Martinez - Texas A&M University Enrique Medici - University of Florida Brent M. O'Hearn - Northeastern University Pavel G. Simeonov - North Carolina State University Kenneth E. Thompson, III - Georgia Institute of Technology Ethan M. Villarreal - Virginia Commonwealth University Amy Whitley - North Carolina State University

Sushil C. Jain Undergraduate Scholarship Sarah E. Cole - Boise State University

William R. & Mila Kimel Nuclear Engineering Scholarship

Matthew J. Culbertson - Kansas State University Dylan J. Frank - Texas A&M University Diego E. Ross - Texas A&M University Riley G. Trendler - University of Illinois Urbana-Champaign

John R. Lamarsh Memorial Scholarship Landon Viers - Missouri University of Science and Technology

Hans P. Loewen Memorial Scholarship Emily Gillmore - University of Illinois Urbana-Champaign

Joseph Naser HFICD Undergraduate Scholarship Jason Clifford - North Carolina State University Rudi Stamm'ler Reactor Physics Division Scholarship Matthew Louis - Georgia Institute of Technology

Accelerator Applications Division Scholarship Jacob Martin - North Carolina State University

Fusion Energy Division Dr. Kenneth R. Schultz Undergraduate Scholarship

Kaitlyn Yanna - Massachusetts Institute of Technology

Operations and Power Division Scholarship Drew J. Barringhaus - Missouri University of Science & Technology James W. Carnal - University of Tennessee, Knoxville

Graduate ANS Graduate

Davis C. Bryars - North Carolina State University Scout H. Bucks - Pennsylvania State University Lucia Rebeca Gomez Hurtado - North Carolina State University

William A. Graham V - North Carolina State University Assil A. Halimi - Massachusetts Institute of Technology Alina S. Jugan - North Carolina State University Umme Mahbuba Nabila - University of Michigan Zavier N. Ndum - Texas A&M University Ethan H. Nicolls - University of Illinois Urbana-Champaign Matther P. Riss - Clemson University Sierra A. Tutwiler - Virginia Commonwealth University Konstantinos Vasili - Purdue University

Brice Turner Memorial Graduate Scholarship Kaelee Novich - Boise State University

Everitt P. Blizard Graduate Scholarship Furkan Erdogan - Virginia Commonwealth University

Robert A. Dannels Memorial Scholarship

Lauren Kohler - North Carolina State University Decommissioning & Environmental Sciences Division Graduate Scholarship

Bryanna Wattier - Clemson University

Vincent J. Esposito Thermal-Hydraulic Graduate Scholarship

Carolina da Silva Bourdot Dutra - Pennsylvania State University

Ely M. Gelbard Graduate Scholarship Grayson Gall - North Carolina State University

Gozani Family Graduate Scholarship Madison Allen - Duke University

Alan F. Henry/Paul A. Greebler Memorial Scholarship

Walid Al Hajj - Virginia Tech University

Lawrence E. Hochreiter Graduate Scholarship Broderick Sieh - Purdue University

Saul Levine Memorial Scholarship Meredith Eaheart- University of Michigan

Michael J. Lineberry Graduate Scholarship Aileen Sarceno - University of Florida

Nuclear Criticality Safety Pioneers Scholarship Flynn Darby - University of Michigan

Fuel Cycle & Waste Management Division John D. Randall Scholarship

Jessica Granger-Jones - University of California, Irvine

James F. Schumar Scholarship Ana Garcia Caraveo - Oregon State University

Robert E. Uhrig Graduate Scholarship Konstantinos Prantikos - Purdue University

Vogt Radiochemistry Scholarship Peter Hotvedt- University of Michigan

Local Sections ANS Colorado Nuclear Science and Technology Scholarship Nicole Hege - Colorado School of Mines

ANS Columbia, SC Local Section Scholarship TBD

ANS Oak Ridge / Knoxville Local Section Undergraduate Scholarship

Daniel Metcalf - University of Tennessee, Knoxville

ANS Pittsburgh Local Section Graduate Scholarship Alexander S. Hauck - Pennsylvania State University

Washington DC Local Section George P. Shultz and James W. Behrens Graduate Scholarship

Meredith Eaheart - University of Michigan Ryan McGuire - Virginia Commonwealth University Melis Yildiz Sakarya - Virginia Commonwealth University

Savannah River Local Section Richard Benjamin Memorial Scholarship

Eastern Washington Local Section Undergraduate Scholarship

Isabella Pinto - Hanford High School (WA) Nicole Samaan - Hanford High School (WA)

Carlsbad Local Section Scholarship

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 2024.

Excelsior University

George Alaniz Matthew Balser Kenneth Bigham Adam Burkett Brvan Burks Jim Clark Alexander Corev Kortney Cunningham Jason Darragh **Michael Davies** Jarod Dawson Samuel Dickinson Christopher Duman Christopher Eck **Brian Frazier Emery Hebert** Brandon Hensley Spencer Holder Timothy Howard Jeremy Knapp Darren Lewis Brianna MacLean Christopher Malerk Nicholas Norman Stephan Parker Bryan Patterson Eldon Pavelka **Benjamin Pflueger** Michael Razillard **Connor Reynolds** Anthony Ruffo 28 Trey Shackelford

Cassidy Siflinger Chris Slaughter Aren Spahiu Thomas Superdock Franklin Tennev Matthew Timmons Joseph Waters Brett Whitsitt Jason Witeck

Kansas State University

Reece Bourisaw Aiden Butcher Lindsey Crowell Blayne Gibson Pierce Hamma Shane McIntosh Cameron Miller

Missouri University of Science and Technology Joanna Miller

Liatris Parker-Reece Ethan Taber

Oregon State University

Duaa Alhubaishi Simon Butson Diana Cruz Elora Elbert Ravan Holmes Anastasia Kaurova Gregory McCoy Benjamin Nakhnikian-Weintraub Robert Young

Pennsylvania State University

Sean Bistany Joseph Brennan Maximiliano Dalinger **Benjamin Fowler** Connor Francis Alexander Hauck **Ulises Henriquez** Caroline Ishak Casimir Morgan Seelan Nerio Callaway Nutter Aiden Ochoa **Jasmine Walker**

Purdue University

Madeline Burton Evan Frishholz Christopher Gaston Andres Gomez John Jackson Preston Kilzer Qi Heng Law Sam LoGalbo John Matulis Stepan Ozerov Shea Ruthe Shashank Shekhar **Broderick Sieh** John Snitzer Alicja Stoppel Konstantinos Vasili Seda Yilmaz

United States Military Academy (West Point)

Kaylee Hahn Noah Hale **Roberto Lopez** Lawrence Mini **Kimberly Munro** Erick Rodriguez Andrew Sanchez **Tyler Semon** Cynthia Sun Liam Waldron

University of Michigan Sophia Bergmann Colleen Campbell Angel Chavira Jack Gremel Justin Hamil Karina Howey Julia Marshall Umme Mahbuba Nabila Rvan Park Milo Parrott Charles Peterson Isabella Wood Kaixin Xue

University of New Mexico

Anutam Bairagi Jaeger Boatwright Kyle Hanen Jared Justice Josephine Lewis Liam Pohlmann Michael Trombetta

University of Tennessee

Kyndal Biladeau Evan Brown Adam Buchalter James William Carnal Justin Clarity Brian Cowell Eli C Crouse Alexander Loren DeGrado Michael Fcklund Edan Kai Estes-Lumpkin Mason Fox Nicholas Allen Gentry Travis M Greene Luke Hansen Erick Hoegberg Ketaki Joshi Jacob Petersen James Pierce Zehui Qi Daniel Racz Marina Rizk **Thomas Siggillino** Teja Vallabhaneni Madison E. Vandergriff Noah Anthony Walton **Destiny White**



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