

ANS® Annual Meeting

2023



Failure is not an option.

Honors and Awards Recipients

June 11–14, 2023
Marriott Indianapolis Downtown
Indianapolis, IN



American Nuclear Society

Opening Plenary Awards

Monday, June 12, 2023
8:00–11:00AM



Presentation of Awards:

Hash Hashemian,
Honors and Awards Committee Chair

AWARD RECIPIENTS

ANS Fellow Awards

Walter H. Zinn Medal

Landis Young Member Engineering Achievement Award

Mishima Award

**Special Award For The Role Nuclear Power Plays In Meeting
State Energy And Environmental Objectives**

Arthur Holly Compton Award In Education (ETWDD)

Distinguished Public Service Award

ANS Fellows



Presented to:

Prof. Maria N. Avramova
North Carolina State University

Notable original research or invention in the nuclear field.

For her internationally recognized research innovations and sustained scientific leadership in development of core thermal-hydraulics and multi-physics modeling and simulation, verification and validation, and uncertainty quantification for nuclear reactor design and safety analyses. Her efforts have been vital for providing predictive accuracy with quantified confidence and computational efficiency.



Presented to:

Dr. Abderrafi M. Ougouag
Idaho National Laboratory

Notable original research or invention in the nuclear field.

For developing leading state-of-the-art design/analysis methods and computational tools, for inventions that enhance performance and safety of PBRs, for first-of-a-kind innovative applications to quantitatively predict in-reactor graphite dust production and pebble bed reactors response to earthquakes, and for sustained mentoring of colleagues and students to completion of advanced degrees.

ANS Fellows



Presented to:
Prof. Annalisa Manera
University of Michigan

Notable original research or invention in the nuclear field.

For her research demonstrating exceptional and sustained contributions to the thermal-hydraulics field with a particular focus on the application of thermal-hydraulics to nuclear reactor safety. Her significant and original contributions to the field include novel contributions to high-resolution thermal-hydraulics experiments and the development of innovative multiphysics, and multiscale CFD-based computational tools for nuclear applications.



Presented to:
Dr. Curtis L. Smith
Idaho National Laboratory

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

For his outstanding leadership in research, technical support, and education in the area of nuclear systems reliability and risk assessment. His contributions as a director, researcher, software developer, trainer, and advanced research program leader have enabled the current and future use of reliability applications and risk-informed thinking and approaches within the nuclear industry.

ANS Fellows



Presented to:

Dr. Paul P. Wilson
University of Wisconsin – Madison

Notable original research or invention in the nuclear field.

For groundbreaking research in CAD-based tools for simulating particle transport, acceleration of Monte Carlo codes, simulation of transmutation and activation, and fuel cycle analysis.

Walter H. Zinn Medal



Presented to:

Mr. Yasir Arafat
Idaho National Laboratory

For his outstanding contributions to the creation and advancement of two novel nuclear microreactors, one of which is under construction in the United States.

Landis Young Member Engineering Achievement Awards



Presented to:

Dr. Anna S. Erickson
Georgia Institute of Technology

For establishing the foundation for novel high-precision instrumentation for safety and security remote monitoring enabling successful development, deployment and commercialization of advanced reactors with operational autonomy.



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 design and broad understanding of the field.

Landis Young Member Engineering Achievement Awards



Presented to:

Prof. Elizabeth S. Sooby
University of Texas San Antonio

For her leadership in developing novel light water reactor fuel forms and understanding degradation modes of nuclear fuels under accident conditions.

Mishima Award



Presented to:

Dr. David Andersson
Los Alamos National Laboratory

For advancing our understanding of nuclear fuel performance through fundamental studies of defect properties and their integration in performance models.

Special Award for *The Role Nuclear Power Plays In Meeting State Energy And Environmental Objectives*



Presented to:
Honorable Donald E. Burkhart, Jr.
Wyoming House of Representatives

and



Mr. Marcio Paes-Barreto
Wyoming Energy Authority

For their vision, dedication, and strategic leadership in the State of Wyoming, resulting in nuclear energy-driven economic security for Wyoming and the Nation.

Arthur Holly Compton Award In Education (ETWDD)



Presented to:

Dr. Anna S. Erickson
Georgia Institute of Technology

For pioneering academic achievements and extensive outreach endeavors in the field of nuclear engineering education, seamlessly integrating traditional classroom instruction, innovative experimentation, and cutting-edge distance education techniques to create a truly multidisciplinary, multi-platform educational experience for the 21st century.

Distinguished Public Service Award



Presented to:

Congressman Mark O. Cojuangco
Philippines House of Representatives

In recognition of his advocacy of nuclear power in the Philippines for over a decade. He has been a visionary leader for his country.



American Nuclear Society

Tuesday Plenary Session

Tuesday, June 13, 2023
8:00–9:45AM EDT



Presentation of Awards:

Steven A. Arndt
President 2022-2023
American Nuclear Society

AWARD RECIPIENTS

Presidential Citations

Outgoing President Appreciation

Presidential Citations



Presented to:

Mr. Thomas A. Fanning
Southern Company (Ret.)

For his steadfast dedication to the proposition that new nuclear is both possible and needed to provide the nation with reliable, carbon free power. His leadership in the construction of the first new nuclear units to be built in the United States in over three decades, has demonstrated his unwavering support of nuclear power and the benefits it will bring to our country.



Presented to:

H.E. Mohamed Al Hammadi
Emirates Nuclear Energy Corporation
(ENEC) and WANO

For his visionary leadership in leading the Emirate Nuclear Energy Corporation in the development of the Barakah nuclear energy plant, and his demonstration to policy makers around the world that nuclear energy is a viable clean energy solution. His management has been instrumental in the delivery of the Barakah nuclear plants and the nuclear infrastructure needed to support them.

Presidential Citations



Presented to:
Mr. W.A. "Art" Wharton, III
Studsvik Scandpower

For his steadfast support to the American Nuclear Society and the nuclear industry. In addition to his significant responsibilities in executive leadership within the industry, Art has made the commitment to serving as ANS Treasurer for the past four years, leading the society through the financial challenges of the pandemic, market volatility and the sale of the headquarters building. His devotion to the Society through these difficult times has set an example for others to follow.



Presented to:
Dr. Rebecca L. Steinman, PE
Constellation Generation

For her outstanding dedication to the American Nuclear Society and leadership in numerous important key roles including as Chair of the Professional Engineering Examination Committee, member of the Board of Directors and Chair of the Special Committee on Certification. She has selflessly devoted herself to the mission of the ANS and supporting the nuclear profession.

Presidential Citations



Presented to:
Mr. Steven P. Nesbit
LMNT Consulting

For ongoing support to the mission of the American Nuclear Society, leading several key initiatives while serving as the Immediate Past President. His leadership in ANS's efforts to develop recommendations on a new generic spent fuel repository standard, the ANS observations on the National Academies report on different nuclear fuel cycles and technology options, and numerous other special projects has gone well beyond the call of duty.

Outgoing President Appreciation



Presented to:
Dr. Steven Arndt
President, 2022 – 2023

For outstanding leadership and dedication during his term as President of the American Nuclear Society (ANS).

During his term, Steven Arndt tirelessly led ANS efforts to expand the Society's professional development and diversity programs, and representing the American nuclear community in the international arena. Steven's strong support for nuclear technologies helped international organizations understand the clear benefits of nuclear technologies and shape their policies. At the same time, he worked to make ANS a better organization through his continuous outreach to the nuclear community, support of diversity and improving our professional development.

For this and other contributions to ANS and the nuclear community it represents we thank Steven Arndt for his service.

DIVISION AWARDS

Don Miller Award (HFICD)



Presented to:
Mr. David Desaulniers
U.S. Nuclear Regulatory Commission

For advancing human factors by encouraging safety research and championing standards and regulations for innovation in the nuclear industry. This award will be presented at the NPIC&HMIT conference.

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



Presented to:
Dr. Pradeep Ramuhalli
Oak Ridge National Laboratory

For his pivotal role and contributions in developing and integrating technical advances in measurement science, data science, and decision science to solve problems in measurement and nondestructive evaluation reliability, integrated system health monitoring and prognostics, inverse problems, and risk-informed decision-making. This award will be presented at the NPIC&HMIT conference.

Ted Quinn Early Career Award (HFICD)



Presented to:

Dr. Padhraic Mulligan
Oak Ridge National Laboratory

For his contributions to the advanced research in finite element analysis for materials irradiations, neutron detection instrumentation development and development of radiation hardened electronics for extreme environments. This award will be presented at the NPIC&HMIT conference.

Gerald C. Pomraning Memorial Award (MCD)



Presented to:

Prof. Alireza Haghghat
Virginia Tech

For seminal contributions to the development of high-fidelity computational deterministic, stochastic and hybrid transport methods for application to complex nuclear systems; for the design of multi-modal detection systems for monitoring and safeguards; for the development of the consistent adjoint-driven importance sampling technique for Monte Carlo variance reduction; for his dedication to nuclear education. This award will be presented at the M&C 2023 conference.

Gerald C. Pomraning Memorial Award (MCD)



Presented to:
Prof. William R. Martin
University of Michigan

For seminal contributions to the advancement of nuclear engineering and science, including sustained support for providing the transport theory basis for advanced computational methods, innovative advances in Monte Carlo and deterministic computational methods, and state-of-the-art advances in Monte Carlo methods for high-performance computing systems. This award will be presented at the M&C 2023 conference.

David Okrent Award for Nuclear Safety (NISD)



Presented to:
Prof. Nicholas R. Brown
University of Tennessee, Knoxville

For leadership in advancing the safety case for both TRISO fuel and advanced reactors.

David Okrent Award for Nuclear Safety (NISD)



Presented to:

Dr. Mihai A. Diaconeasa
North Carolina State University

For contributions to the simulation-based methods for probabilistic risk assessment of current and next generation of nuclear power plants.

Early Career Reactor Physicist Award (RPD)



Presented to:

Dr. Carlo Fiorina
EPFL

In recognition of his many contributions to the field of reactor physics and in particular to the development of high impact open-source multi-physics modeling tools. This award will be presented at the Early Career Reactor Physicist Award session.

Early Career Reactor Physicist Award (RPD)



Presented to:
Dr. Rodolfo M. Ferrer
Studsvik Scandpower

For his leadership in the improvement of CASMO5 methods, particularly for the linear source scheme for the Method of Characteristics. This award will be presented at the Early Career Reactor Physicist Award session.

FCWMD Significant Contribution Award



Presented to:
Dr. Joshua Vajda
United Cleanup Oak Ridge, LLC

In recognition for outstanding contributions to the Surplus Plutonium Disposition Program that have significantly advanced societal and regulatory aspects of the nuclear waste management mission.

AWARDS PRESENTED ELSEWHERE

Henry DeWolf Smyth Nuclear Statesman Award



Presented to:

Dr. Mark T. Peters
Battelle Memorial Institute

For sustained outstanding technical and policy leadership, statesmanship, contributions, and professional service that have advanced the peaceful use of nuclear energy nationally and globally. Presented at the NEI Nuclear Energy Assembly, May 16, 2023



American Nuclear Society Scholarship Award Recipients

The American Nuclear Society Scholarship Policy and Coordination Committee, the ANS Divisions, and Local Sections have awarded 96 scholarships totaling \$259,600 to students pursuing degrees in nuclear science and technology.

Thank you to all the donors who have generously supported our scholarship programs.

Washington Internships for Students of Engineering (WISE) ANS Sponsored Interns

Sarah Elizabeth Cole - Boise State University
Abbey Hageman - University of Nevada, Reno

Community College/Trade School Kent Hamlin Memorial Scholarship

Max C. Richardson - Three Rivers Community College

Diversity and Inclusion / NEED Nontraditional Student Scholarships

Jacob M. Duprey - University of Massachusetts Lowell
Ryan P. McGuire - Virginia Commonwealth University
Shane D. Olson - Texas A&M University
Diego E. Ross - Texas A&M University
Abdulrasheed Sado - University of Tennessee, Knoxville

John and Muriel Landis Scholarships

Anastasia Baltés - Colorado School of Mines
Connor F. Donlan - Virginia Commonwealth University
Alina S. Jugan - North Carolina State University
Julia L. Marshall - University of Michigan
Gibson D. Prall - University of New Mexico
Maximiliano J. Velasco - North Carolina State University
Bryanna Wattier - Clemson University

Community College / Trade School

Tenna R. Mack - Research Medical Center School of Nuclear
Medicine Technology

Undergraduate ANS Incoming Freshman

Ian M. Bigler, The Kiski School (PA)
Elsa S. Cutler, Georgetown Day School (DC)
Katarina A. Dries, Joseph A. Craig High School (WI)
Bryson Flake, Apple Valley High School (MN)
Zachary K. Gardiner, Bishop McDevitt High School (PA)
Bu Wei O. He, Novato High School (CA)
Aysha Langer, Benson Polytechnic High School (OR)
Landon C. Liddell, Dyer County High School (TN)
Brett P. Lowry, Sequoyah High School (GA)

ANS Incoming Freshman Continued

Sydney A. Madetzke, Ankeny High School (IA)
Kaitlin G. Perry, Rising Sun High School (MD)
William A. Tomeo, IDEA Homeschool Program & the Alaska
Native Science & Engineering Program (AK)

ANS Undergraduate (Sophomore)

Colin H. Gold - Georgia Institute of Technology
Hillary Khuu - University of California, Berkeley
Eirini Klemes - North Carolina State University
Jacob A. Martin - North Carolina State University
Ethan M. Villarreal - Virginia Commonwealth University

ANS Undergraduate (Junior/Senior)

Shereen A. Aissi - University of California, Berkeley
Ethan D. Brockmeier - Excelsior University
Evan M. Bursch - University of Notre Dame
Jason P. Clifford - North Carolina State University
Brisson Cowan - Oregon State University
Daniel A. Fernandez - University of Florida
Eli P. Logan - University of Tennessee-Knoxville
Geneve Magnan - University of Michigan
Jessi A. Martinez - Texas A&M University
Benjamin M. McNeely - University of Massachusetts Lowell
Kristina S. Pattison - North Carolina State University
Pavel G. Simeonov - North Carolina State University
Andrea G. Williams - University of Rhode Island

Angelo F. Bisesti Memorial Scholarship

Desiré Rivera Borges - University of Puerto Rico at Mayaguez

Raymond DiSalvo Memorial Scholarship

Claire M. Tran - Georgia Institute of Technology

Sushil C. Jain Undergraduate Scholarship

Braden T. Moore - University of Illinois Urbana-Champaign

William R. & Mila Kimel Nuclear Engineering Scholarship

Madison N. Allen - University of Tennessee Knoxville
Scout H. Bucks - Pennsylvania State University
William A. Graham - North Carolina State University
Adam H. Rasmussen - Utah State University

John R. Lamarsh Memorial Scholarship

Jeromealex P. Lim - Oregon State University
Jordan Parker-Ashe - Massachusetts Institute of Technology

Hans P. Loewen Memorial Scholarship

Ethan Nicolls - University of Illinois Urbana-Champaign

Joseph Naser HFICD Undergraduate Scholarship

Jason Andrews - Texas A&M University, College Station

Rudi Stamm'ler Reactor Physics Division Scholarship

Matthew Louis - Georgia Institute of Technology

Accelerator Applications Division Scholarship

Sarah Cole - Boise State University

Decommissioning & Environmental Sciences Division Undergraduate Scholarship

Ethan Nicolls - University of Illinois Urbana-Champaign

Fusion Energy Division Dr. Kenneth R. Schultz Undergraduate Scholarship

Riley Trendler - University of Illinois Urbana-Champaign

Operations and Power Division Scholarship

Drew J. Barringhaus - Missouri University of Science & Technology
Elijah G. Capps - University of Illinois at Urbana-Champaign

Graduate

ANS Graduate

Khaldoon A. Al-Dawood - North Carolina State University
Ignacio R. Bartol - Georgia Institute of Technology
Peggy Cawley - Virginia Commonwealth University
Jonathan Crozier - North Carolina State University
Rowdy Davis - The University of New Mexico
Lance M. Drouet - University of Tennessee, Knoxville
Konstantinos Gkouliaras - Purdue University
Ethan Krammer - University of New Mexico
Madeline L. Lockhart - North Carolina State University
Ryan P. McGuire - Virginia Commonwealth University
Kaelee A. Novich - Boise State University
Shane D. Olson - Texas A&M University
Andy Rivas - North Carolina State University

Everitt P. Blizzard Graduate Scholarship

Bryanna Wattier - Clemson University

Robert A. Dannels Memorial Scholarship

Grayson Gall - North Carolina State University

Vincent J. Esposito Thermal-Hydraulic Graduate Scholarship

Fadel Nasr - North Carolina State University

Ely M. Gelbard Graduate Scholarship

Gavin Ridley - Massachusetts Institute of Technology

Gozani Family Graduate Scholarship

Katelyn Cook - Rensselaer Polytechnic Institute

Alan F. Henry/Paul A. Greebler Memorial Scholarship

Muhammad Oktavian - Purdue University

Lawrence E. Hochreiter Graduate Scholarship

Victor Coppo Leite - Pennsylvania State University

Saul Levine Memorial Scholarship

Asmaa Farag - North Carolina State University

Michael J. Lineberry Graduate Scholarship

Adrianna Lupercio - Boise State University

Nuclear Criticality Safety Pioneers Scholarship

Kathryn Worrell - University of Tennessee

Fuel Cycle & Waste Management Division John D. Randall Scholarship

Roxanne Walker - University of Michigan

James F. Schumar Scholarship

Lucia Rebeca Gomez Hurtado - North Carolina State University

Robert E. Uhrig Graduate Scholarship

Jinding Xing - Carnegie Mellon University

Vogt Radiochemistry Scholarship

Anastasia Baltes - Colorado School of Mines

Local Sections

ANS Oak Ridge / Knoxville Local Section Undergraduate Scholarship

Alexander Nadermann - University of Tennessee, Knoxville
Noah Walton - University of Tennessee, Knoxville

ANS Pittsburgh Local Section Graduate Scholarship

Iza Lantgios - University of Pittsburgh

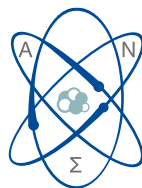
Washington, DC Local Section Jeffrey A. Gorman Undergraduate Scholarship

Isabella Wood - University of Michigan

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

Sierra Tutwiler - Virginia Commonwealth University

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 2023.

Excelsior University

Daphne May Beltz
Karen Butler
Jimmy Cahuas
Evan Chevalier
Anthony Cimaglia
Joseph Conway
Ryan Dodge
Cordie Dorman
Jacob Edge
Bryce Gollata
Cody Hall
Kayla Johnson
Michael Johnson
Sarah Kline
Matthew Korte
Chessa LeMay
Nathen Moon
Patrick Mynes
Tatiana Nasierowski
Christopher Parkes
Timothy Porter
Shane Ramsey
Terry Ratliff
Richard Rowe
Samuel Samford
Casey Spiegelhoff
Michael Swackhammer
Sarah Vitone
James Wegmann
Bradly Weston
Parker White
Benjamin Wiener

Kansas State University

Lily Galimba
Colby Johnston
Ashleigh Mauler
Brian Simon

Missouri University of Science and Technology

Drew Barringhaus
Joseph Dereberry
Rachael McClaskey
Delaney Potmesil
Brian Wolf

Oregon State University

Ian B. Arndt
Emory Colvin
Calvin Lee Cressman
Eric James Hudec
Jerome Alex P. Lim
Robert Riley
Morgan Sylvia

Pennsylvania State University

John Barton
Josef Bauer
Scout Bucks
Carolina da Silva Bourdot Dutra
Mahmoud Eltawila
Siddharth Gupta
Chase Hargrove
Daniel Holcomb
Ethan Kunz
Adam Kraus
Branko Kovacevic
Victor Coppo Leite
Tyler Locher
Luiz Aldeia Machado
Trevor Marchhart
Matheus de Morais
Vitaliy Mykhnyak
Katheren Bosson Nantes
James Nellis
Tri Nguyen
Sinan OKYAY
Camila Lopez Perez

Pennsylvania State University continued

Alexander Scott
William Searight
Carli Smith
Coleman Smith
Andre Vidal Soares
Morgan Tran

Purdue University

Andrew Bergeon
Benjamin Billett
Trent Bloor
Bailey Christensen
Jack Cowan
Jacob Davis
Adam Dix
Konstantinos Gkouliaras
Susan Huster
Trevor Hylan
Dylan Kohler
Allison Komrska
Hanne Lucido
Jake Marr
Muhammad Oktavian
Maria Pantopoulou
William Richards
Lucas Ugolini San Martin
Morgan Smith
Charie Tsoukalas
Haoxuan Wang
Nathan Tollett
Sophia Shick
Peter Suarez
Reshma Ughade
Samuel Wyss

United States Military Academy (West Point)

Samuel Aycock
Ryan Brockington
Aaron Calhoun
William Kaiser
Owen Koster
Caleb Lagestee
Jeremiah Phillips
Joseph Rumbaugh
Steven Scanlon
Ethan Wood

University of Florida

Navid Aslani
Kervin Coss Flores
Emily Kwapis
Virginia Lucas
Curtis Lurvey
Mitchell Mika

University of Michigan

Rodrigo Herrero Alvarez de Araya
Emeline Hanna
Geneve Magnan
O Hwang Kwon
Owen Hart

University of New Mexico

Xavier Angus
Riley L. Bulso
Justin Hamil
Christopher Hooper
Roberts Ituah
Daniel Levario
Richmond McDonald
Bao Nguyen
Gibson Duane Prall
Ahmad Nabeel Shaheen
James Suthon

University of Tennessee

Cade Abbott
David Anderson
Nicholas Branam
Mitchell Crockett
Thomas Ensley
Kate Haugh
Katie Karl
Jonas Kessing
Sean Kosslow
Kyra Lawson
Michael LoPresti
Daniel Lutterman
Bradley Moore
Jeremy Mateja
Alexander Nadermann
Collin Webb
Katy Worrell
Mattia Zanotelli



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