

ANS Virtual Annual Meeting **2021**



Honors and Awards Recipients

June 14–16, 2021
Virtual Meeting

Plenary Session/Keynote Panel Awards

Monday, June 14, 2021
10:00 am–12:30 pm (EDT)



AWARD RECIPIENTS

Presentation of Awards:

Hash Hashemian,
Honors and Awards Committee Chair

ANS Fellow Awards

Walter H. Zinn Medal

Landis Young Member Engineering Achievement Award

Mishima Award

Special Award for Making Advanced Nuclear Energy Systems a Reality: Going Beyond Promotion Toward Deployment

ANS Fellows



Presented to:

Mr. Bradley J. Adams
Southern Nuclear Operating Company

In recognition of his outstanding technical leadership in nuclear engineering and plant operations. As Vice President of Engineering at Southern Nuclear, his hard work and vision have produced significant contributions to both nuclear operations and construction. He has become a major industry leader in guiding and addressing the most critical issues facing the long-term health and success of the entire US nuclear fleet.



Presented to:

Dr. William E. Burchill
Texas A&M University

In recognition of developing one of the earliest complete analyses of the thermal-hydraulic phenomena during the Three Mile Island Unit 2 accident. He improved the models for nuclear power system performance and accident simulation. He upgraded Probabilistic Risk Analysis tools and introduced significant improvements in the application of risk-informed licensing practices.

ANS Fellows



Presented to:

Dr. Mark B. Chadwick
Los Alamos National Laboratory

In recognition for his leadership in the U.S. of nuclear cross section evaluations leading to improved simulation performance across the range of nuclear applications; renowned contributions to modeling of plutonium fission; international leadership in nuclear science and technology; and substantial and enduring individual technical contributions to the nuclear enterprise.

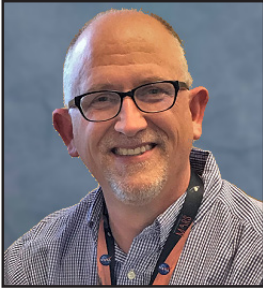


Presented to:

Dr. Stuart A. Maloy, PhD
Los Alamos National Laboratory

In recognition for his outstanding accomplishments and leadership in radiation materials science and engineering. His expertise in microstructural analysis and interpretation of atomic-scale defects on changes to macroscopic-scale properties of metals underpins the development of innovative materials needed for spallation neutron sources, advanced fission and fusion reactors, and other energy applications.

ANS Fellows



Presented to:
Dr. Robert P. Martin
BWX Technologies, Inc.

In recognition for his sustained and significant technical contributions to the state-of-the-art research in modeling nuclear power plant behavior during design basis and beyond design basis accident scenarios that made it possible to increase efficiencies and power levels at operating nuclear power plants.



Presented to:
Dr. Kathryn Ann McCarthy
Oak Ridge National Laboratory

In recognition for her outstanding leadership, both nationally and internationally, leading to the advancement of fission reactor systems and fusion technologies.

ANS Fellows



Presented to:
Dr. Todd S. Palmer
Oregon State University

In recognition for his sustained contributions to the advancement of methods and algorithms for computational radiation transport impacting critical software assets at the NNSA and nuclear energy national laboratories, and their innovative application in the analysis of high energy density and reactor physics systems.



Presented to:
Dr. Monica C. Regalbuto
Idaho National Laboratory

In recognition of her exceptional contributions to the nuclear fuel cycle and nuclear waste management mission by developing and demonstrating innovative nuclear energy technologies that have significantly advanced the scientific, engineering, policy, and regulatory aspects of the nuclear enterprise.

Walter H. Zinn Medal



Presented to:
Dr. Jose N. Reyes, Jr.
NuScale Power

In recognition of revolutionizing 21st century nuclear power with the design of an innovative passively-cooled, USNRC-licensed small modular reactor and by co-founding NuScale Power.

Landis Young Member Engineering Achievement Awards



Presented to:

Prof. Nicholas R. Brown
University of Tennessee, Knoxville

In recognition of his technical leadership in advancing the safety case for accident tolerant fuel and cladding and in paving the way for licensing of advanced nuclear reactors.



Presented to:

Dr. Paul K. Romano
Argonne National Laboratory

In recognition of his leadership in advancing the state of the art and breadth of impact of computational nuclear engineering.

Mishima Award



Presented to:

Prof. Robin W. Grimes
Imperial College London

In recognition for his seminal contributions applying atomistic simulation techniques to predict governing phenomena in nuclear materials including fuel performance and the radiation tolerance of ceramic waste forms.

Special Award for Making Advanced Nuclear Energy Systems a Reality: Going Beyond Promotion Toward Deployment



Presented to:

Dr. D. V. Rao
Los Alamos National Laboratory

In recognition of advancing small reactor deployment opportunities by designing new space reactors, microreactors, and moderating material for low instead of high enriched uranium fuel.



American Nuclear Society

President's Special Session

Tuesday, June 15, 2021
10:00 am–11:30 am (EDT)



AWARD RECIPIENTS

Presentation of Award:
Mary Lou Dunzik-Gougar
ANS President

Presidential Citations

Leadership Award

Presidential Citations



Presented to:

Michael L. Corradini, PE
University of Wisconsin Madison

For over ten years of dedicated leadership and service as an associate editor (2008–present) and as technical editor (2019–2020) at a critical juncture for Nuclear Science and Engineering, a peer-reviewed journal of the American Nuclear Society.



Presented to:

Alyse S. Huffman
U.S. House of Representatives
Committee on Science,
Space and Technology

For her leadership in getting the Energy Act of 2020 passed and signed into law.



Presented to:

Deborah Ann Hill
National Nuclear Laboratory

For her leadership in fulfilling the expanded mission of the Professional Divisions Committee as set forth in Change Plan 2020. She has brought diverse Division leadership together to effectively identify and collectively solve problems, to share information and ideas, and to expand lines of communication among Divisions, the Executive Committee and the Board of Directors.

Leadership Awards



Presented to:

Dr. Steven A. Arndt
Oak Ridge National Laboratory

In recognition for his exemplary leadership and lifelong dedication to efforts that advanced a wide range of technical and policy initiatives improving nuclear safety standards across the industry.



Presented to:

Mr. Harsh S. Desai
Nuclear Energy Institute

In recognition for his outstanding leadership and extraordinary contributions to the American Nuclear Society.

AWARDS PRESENTED ELSEWHERE

Outgoing President Appreciation



Presented to:

Mary Lou Dunzik-Gougar
President, American Nuclear Society
2020 - 2021

For outstanding leadership and dedication during her term as President of the American Nuclear Society (ANS). During her term, Mary Lou Dunzik-Gougar led ANS through unprecedented challenges as the Covid-19 pandemic upended “normal.” She worked tirelessly through the new virtual world to keep the ANS membership involved and engaged in their professional society. She advocated effectively for the value of nuclear technology – “Nuclear is good for you!” - while challenging the Society to consider ideas and perspectives outside the mainstream. For this and other contributions to ANS and the nuclear community it represents we thank Mary Lou Dunzik-Gougar for her service.

Henry DeWolf Smyth Nuclear Statesman Award



Presented to:

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

In recognition of three decades of leadership and service in meeting the clean energy needs of the global community.

Presented by ANS President Mary Lou Dunzik-Gougar during NEI's Nuclear Energy Assembly in June 2021

DIVISION-ADMINISTERED AWARDS

Ray Goertz Award (RRSD)



Presented to:

Dr. Mark W. Noakes
Oak Ridge National Laboratory

In recognition of outstanding contributions to the field of robotics and remote systems technology and service to the ANS Robotics and Remote Systems Division.

Early Career Reactor Physicist Award (RPD)



Presented to:

Dr. Benjamin R. Betzler
Oak Ridge National Laboratory

For excellence and leadership in applied reactor physics research and development for advanced reactor designs.

Young Member's Research Achievement Award (MCD)



Presented to:

Dr. Steven P. Hamilton
Oak Ridge National Laboratory

In recognition of his significant contributions to mathematics and computation in nuclear engineering which are the development of novel transport algorithms and linear and non-linear solvers that have enabled the use of next-generation GPU architectures for production-level, Monte Carlo and deterministic neutronics simulations on HPC systems.

FCWMD Lifetime Achievement Award



Presented to:

Dr. Terry Todd
Idaho National Laboratory

In recognition of 38 years of demonstrated leadership in chemical separations research in support of nuclear fuel recycle technologies and radioactive waste treatment.

FCWMD Distinguished Service Award



Presented to:

Mr. Jack D. Law
Idaho National Laboratory

For his unwavering support of FCWMD, including his efforts to support ANS students and early-career researchers in fuel cycle and waste management.

Don Miller Award (HFICD)



Presented to:
Dr. Ronald L. Boring
Idaho National Laboratory

In recognition for his outstanding contributions to the nuclear industry's human factors community, especially in the areas of human reliability analysis, system design and evaluation.



Presented to:
Dr. Rizwan Uddin
University of Illinois at Urbana-Champaign

In recognition for his leadership in technical training, effective control room and operations design, human factors research, and developing 3-D interactive “environments” for student learning.

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



Presented to:
Dr. Sacit M. Cetiner
Idaho National Laboratory &
Massachusetts Institute of Technology

In recognition of his outstanding technical contributions to the field of measurement science including instrumentation, control, and data science.

Ted Quinn Early Career Award (HFICD)



Presented to:
Dr. Fan Zhang
University of Tennessee, Knoxville

In recognition for her contributions to the research and development community for nuclear science and technology with emphasis on instrumentation and control and cyber security requirements and controls.

Arthur Holly Compton Award in Education (ETWDD)



Presented to:

Dr. Robert D. Busch
University of New Mexico

In recognition for academic excellence in nuclear engineering education and exemplary service in national educational activities supporting professional engineering licensure.



Presented to:

Dr. Nolan E. Hertel
Georgia Institute of Technology

In recognition for outstanding contributions to education in the field of nuclear engineering in the spirit of Arthur Holly Compton - a scientist, teacher, and national leader.

David Okrent Award for Nuclear Safety (NISD)



Presented to:
Dr. Katrina M. Groth
University of Maryland

For leading technical contributions to nuclear safety and service to the community through teaching, conference organization, and ANS committee work.



Presented to:
Dr. Matthew R. Denman
Kairos Power, LLC

For excellent contributions to and leadership in the development of probabilistic risk assessment standards and mechanistic source term technology for existing and advanced reactors.

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 2021-2022 academic year. This year, ANS awarded \$157,000 in scholarships to 59 recipients. This is possible largely due to generous donations from ANS members, Professional Divisions, individuals, and the commitment of the ANS Board of Directors.

•UNDERGRADUATE CATEGORY•

ANS Incoming Freshman

Tucker H. Bundy - Idabel High School (OK)
Sarah E. Cole - Mountain View High School (ID)
Rory M. Coll - Leonardtown High School (MD)
Alexander T. Edwards - Bob Jones High School (AL)
Carly E. Evans - Walled Lake Northern (MI)
Jonathan Liu - Saint Joseph High School (IN)
Lane M. Scheel - Palmyra-Eagle High School (WI)
Michael Shiwbaran - Central Park East High School (NY)
Jasmine C. Walker - Copley High School (OH)
Gabriel W. Watson - Anderson County High School (TN)

ANS Undergraduate (Sophomore)

William A. Graham - North Carolina State University

ANS Undergraduate (Junior/Senior)

Christian A. Arguello - University of New Mexico
Hayden S. Bland - North Carolina State University
Anthony G. Bowers - University of Massachusetts Lowell
Grayson S. Gall - North Carolina State University
Jacob M. Halpern - Purdue University
Tyler J. Lewis - Purdue University
Charles McSwain - University of Tennessee, Knoxville
Robert H. Mendleski - Texas A&M University
Mitchell L. Mika - University of Florida
Kogan L. Powell - Utah State University
Anthony F. Tom - University of Tennessee - Knoxville

Angelo F. Bisesti Memorial Scholarship

Noah M. Higgins - North Carolina State University

Raymond DiSalvo Memorial Scholarship

Alisa K. Machiwalla - Kennesaw State University

William R. & Mila Kimel Nuclear Engineering Scholarship

Jack W. Fletcher - Missouri University of Science and
Technology

Laura J. Shi - University of California, Berkeley

John R. Lamarsh Memorial Scholarship

Kaylee M. Cunningham - University of Florida
Abigail M. Davis - North Carolina State University

Hans P. Loewen Memorial Scholarship

Sophia L. Morton - Oregon State University

Accelerator Applications Division Scholarship

Noah M. Higgins - North Carolina State University

Joseph Naser HFICD Undergraduate Scholarship

Shana L. Johnson - North Carolina State University

Operations and Power Division Scholarship

Benjamin M. McNeely - University of Massachusetts Lowell
Katy J. Worrell - University of Tennessee, Knoxville

Fusion Energy Division Dr. Kenneth R. Schultz Undergraduate Scholarship

Joshua M. Hoffman - University of Illinois Urbana-
Champaign

Broderick M. Sieh - Kansas State University (Honorable
Mention)

Rudy Stamm'ler Undergraduate Reactor Physics Scholarship

Timothy M. Kiefer - North Carolina State University

•GRADUATE CATEGORY•

ANS Graduate

Eli J. Boland - Missouri University of Science & Technology
Adam Darr - Purdue University, West Lafayette
Ahmed Moustafa - North Carolina State University
Kathryn A. Mummah - University of Wisconsin-Madison
Rittu S. Raju - The University of Michigan
Ashley R. Raster - Missouri University of Science and Technology
Ghada Shkoukani Alqous - North Carolina State University
Sarah R. Stevenson - University of California, Berkeley
Samuel O. Webster - North Carolina State University
Paige K. Witter - Colorado State University

Everitt P. Blizzard Graduate Scholarship

Madeline L. Lockhart - North Carolina State University

Robert A. Dannels Memorial Scholarship

Emily H. Vu - University of Michigan, Ann Arbor

Decommissioning & Environmental Sciences Division Graduate Scholarship

Abdulsalaml Shakhatreh - Virginia Tech

Ely M. Gelbard Graduate Scholarship

Hadyn Kistle - Texas A&M University

Alan F. Henry/Paul A. Greebler Memorial Scholarship

William C. Dawn - North Carolina State University
Gavin K. Ridley - Massachusetts Institute of Technology

Lawrence E. Hochreiter Graduate Scholarship

Adam Kraus - Pennsylvania State University

Saul Levine Memorial Scholarship

Katelyn C. Cook, Rensselaer Polytechnic Institute

Michael J. Lineberry Graduate Scholarship

Kaelee A. Novich - Boise State University

Nuclear Criticality Safety Pioneers Scholarship

Kristin N. Stolte - Texas A&M University

Fuel Cycle & Waste Management Division John D. Randall Scholarship

Hannah K. Patenaude, University of Nevada, Las Vegas

James F. Schumar Scholarship

Lorenzo Vergari - University of California, Berkeley

Robert E. Uhrig Graduate Scholarship

Vincent P. Paglioni - University of Maryland, College Park

Vogt Radiochemistry Scholarship

Madison N. Allen - University of Tennessee Knoxville

NEED Scholarships

John and Muriel Landis Scholarships

Madison N. Allen - University of Tennessee Knoxville
Madison N. Bushloper - University of Florida
Alexander S. Hauck - Rensselaer Polytechnic Institute
Miriam A. Kreher - Massachusetts Institute of Technology
Ryan P. McGuire - Virginia Commonwealth University
Gibson D. Prall - University of New Mexico
Sierra A. Tutwiler - Virginia Commonwealth University

Nontraditional Student Scholarship

Teyen Widdicombe - University of Idaho

Community College/Trade School Scholarship

Kent Hamlin Memorial Scholarship

Michael J. Bircher - Columbia Basin College
Thomas C. Oberhausen - Lakeland Community College

Local Section Scholarships

ANS Oak Ridge / Knoxville Local Section Undergraduate Scholarship

Madison N. Allen - University of Tennessee Knoxville

ANS Oak Ridge / Knoxville Local Section Graduate Scholarship

Madison S. Ratner - University of Tennessee - Knoxville

Pittsburgh Local Section Graduate Scholarship

Miriam A. Kreher - Massachusetts Institute of Technology

Pittsburgh Local Section Undergraduate Scholarship

Veronica Heyl - North Carolina State University

Washington, DC Local Section Jeffrey A. Gorman Undergraduate Scholarship

Joshua M. Hoffman - University of Illinois Urbana-Champaign

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

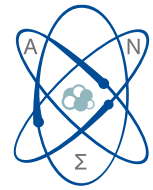
Arturo Cabral - Virginia Commonwealth University
William Searight - Pennsylvania State University

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

Zachary T. Deziel - NASA

Robert Brent Renfrow - Lipscomb 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 2021:

Massachusetts Institute of Technology

Ali Aljefri
Zoe Lilah Fisher
Justin Kunimune
Lige Liu
Zhuo Liu
Thanh Nguyen
Gavin Ridley
William Robb Stewart
Ralph S. Wiser
Yuan Zhu

Rensselaer Polytechnic Institute

Casey Henry Burton
Qiyun Cheng
Lauren Elizabeth King
Dante Mariano Mancinelli

The Ohio State University

Pearle M. Lipinski
Tomás Mallmann Paganin
Tyler Jake Osterhout
Corbin Winningham

United States Military Academy (West Point)

Cameron James Barlow
Vincent Alexander Gasparri
Enrique Ignacio Gonzalez
Joseph Wesley Maddock
Amanda Leigh McDonough
Luke Edward Sanders
Valentina Marie Vincent

United States Naval Academy

Alexander I. Carter
Elizabeth Farnan
Nicholas Kennedy
Young-Uk Kim
Luke Leopold Lhota
Katelyn Majors

Nathan Joseph Matalavage
Calvin H. McDonald
Miss Madeline Isabella Prince

University of Illinois at Urbana-Champaign

Sari Alkhatib
Katarzyna Borowiec
Michael Chakinis
Nicholas Arthur Dailey
Miss Jasmine Dinari
Moutaz Elias, PE
Roberto Fairhurst Agosta
Joshua Michael Hoffman
Ibrahim Jarrah
Alvin Joon Hon Lee
Nikhil Patel
Carly J. Romnes
Yanqin Zhai
Taiyang Zhang

University of Michigan

Damon Anderson
Miss Kaitlyn Elizabeth Barr
Adam Nathaniel Brusstar
Yucan Ding
Miss Marisol Garrouste
Juliane Kinney
Joshua Latham
Aaron Thomas Arlyn MacDonald
Rowan Marchie
Jordan David Noey
Braden Jake Balsley Saltus
Christopher Dylan Thomas
Leo Tunkle

University of New Mexico

Saleh Afif Alafifi
Ragai Altamimi
Christian Alexander Arguello
Luke Baca

Malak Bani-Melhem
Kyle S. Beling
Dalton Irvin
Abhishek KC
Matthew J. Lazaric
Jennifer Leute
Dominic Lioce
Alexis Maldonado
Bobbi Merryman
Melissa Andrea Moreno
Jawad Ribhi Moussa
Benjamin Roy Murphy
Mekiel Olguin
Tara Lee Robertson
Gregory Alexander Ryba
Bruno Sa de La Rocque Guimaraes
Asmaa Salem
Steven Leif Showalter
Corey M. Skinner
Khaled Talaat
Michael John Tanguay
Daniel H. Timmons
Jeremy Vaughan
Dylan A. Weatherred
Colin Andrew Weaver
Christopher Wolfe

University of Tennessee

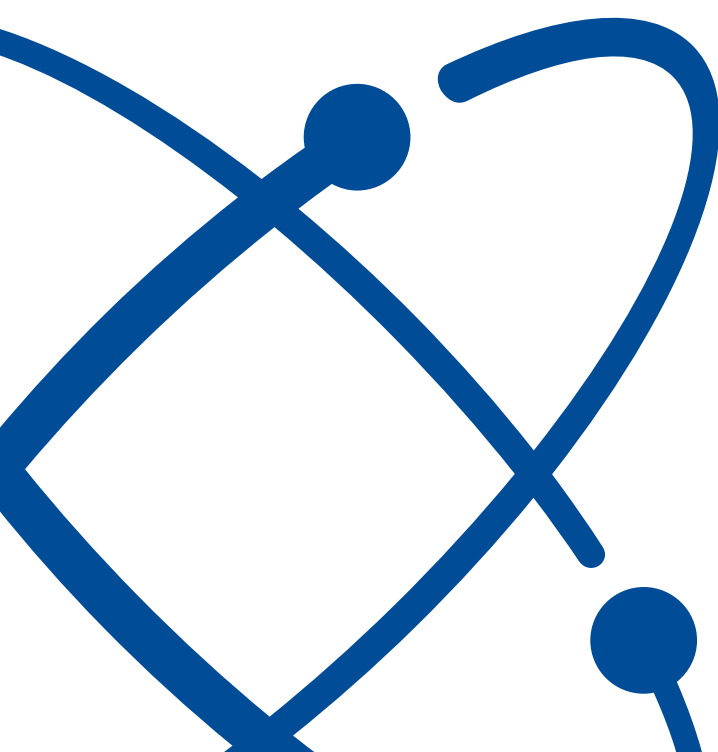
Promise Adebayo-Ige
Miss Annie McKenzie Berens
David Burgess
Sarah Creasman
Ethan Deters
Maj. Robert Boone Gilbreath, BSME, MS
Mrs. Karen Koop Hogue
Miss Katie Mae Karl
Samara Michelle Levine
Jana M. Starks
Ryan Charles Thier



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