

2020

Honors and Awards Recipients

> June 8-11, 2020 Virtual Meeting



Countdown to 2030

Framing the Nuclear Technology Agenda for the Next 10 Years



Plenary Session/Keynote Panel Awards

Monday, June 8, 2020 10:00 am-11:30 am (EDT)

AWARD RECIPIENTS

Presentation of Awards:

Hussein S. Khalil, Honors and Awards Committee Chair

ANS Fellow Awards

Zinn Medal

Eisenhower Medal

Landis Young Member Engineering Achievement Award

Mishima Award



Presented to:
Dr. Rita Baranwal
U.S. Department of Energy

For leading the way to a new nuclear energy paradigm through visionary leadership that has spawned innovation by re-focusing the efforts of the DOE laboratory complex to advance the U.S. nuclear industry.



Presented to:
Prof. Yaron Danon
Rensselaer Polytechnic Institute

For significant contributions to nuclear engineering and science through novel experimental and analytical research leading to more accurate nuclear cross section data essential to the design of safe and reliable nuclear reactors.



Presented to:
Dr. Mitchell Farmer
Argonne National Laboratory

For innovative, sustained, and internationally recognized contributions addressing risk-significant severe accident issues in support of the LWR industry. His work has helped shape the thinking of the nuclear industry and regulatory bodies around the world regarding the efficacy of accident management strategies.



Presented to:
Mr. Dennis W. Henneke
GE Hitachi

For contributions to PRAs and risk-informed applications since 1982, including risk monitors, Fire PRA, PRA standards and Multi-unit PRA, as well as for leading the development of PRAs for ABWRs and SFRs at GEH.



Presented to:
Dr. Kostadin N. Ivanov
North Carolina State University

For sustained and internationally recognized contributions to multi-dimensional reactor physics, multi-physics methodologies and uncertainty analysis fordesign and safety analysis of nuclear systems.



Presented to:
Dr. Richard Lee
U.S. Nuclear Regulatory Commission

For sustained efforts to modernize methods for the safety analysis of power reactors including computer codes for fuel performance, neutronics and accident analysis, as well as for his contributions to international cooperation to improve the analysis of power reactors.



Presented to:
Dr. Thomas A. Mehlhorn
Mehlhorn Engineering Consulting Services

For scientific leadership in developing predictive simulation tools, discriminating diagnostics, and validation experiments, leading to major advances in the generation and application of intense ion and electron beams and Z-pinches for nuclear fusion, nuclear science, and defense missions.



Presented to:
Dr. Juergen Rapp
Oak Ridge National Laboratory

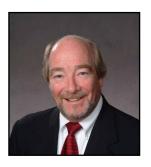
For technical leadership in fusion plasma surface interactions, including the development of impurity seeding to mitigate fusion power exhaust, and in the development of experimental facilities for studying plasma surface interactions at Magnum-PSI (Netherlands) and proto-MPEX (USA).



Presented to:
Prof. Kumar Sridharan
University of Wisconsin Madison

For major research contributions in materials corrosion and degradation processes in nuclear energy systems, and for impact on the nuclear industry through the development of improved fuel cladding concepts as well as education and mentorship of undergraduate and graduate students.

Zinn Medal



Presented to:
William E. Burchill
ANS Past President and Texas
A&M University (retired)

For his demonstrated ongoing leadership and mentoring of future leaders and leadership in utility, vendor and university nuclear programs, Dr. William Burchill, is nominated to be recognized as following in the footsteps of Dr. Walter Zinn and making significant contributions to the advancement of nuclear energy in the U.S. and around the world.

Eisenhower Medal



Presented to: Peter B. Lyons

In recognition of Dr. Lyons' influential and prominent leadership in nuclear technology policy spanning five decades (1969-2015) and four institutions: LANL, U.S. Senate staff, the NRC, and the DOE.

Landis Young Member Engineering Achievement Award



Presented to:
Janelle P. Wharry
Purdue University

In recognition of her development of innovative methods for mechanical testing of materials under extreme radiation environments.

Mishima Award



Presented to:
Rudolph Johannes
Maria (Rudy) Konings
European Commission, JRC

For numerous and pioneering achievements furthering our understanding of nuclear fuels.



President's Special Session

Tuesday, June 9, 2020 10:00 am-11:30 am (EDT)

AWARD RECIPIENTS

Presentation of Award:

Marilyn Kray, ANS President

Henry DeWolf Smyth Nuclear Statesman Award

Distinguished Service Award

Leadership Award

Henry DeWolf Smyth Nuclear Statesman Award



Presented to:
Dr. Siegfried S. Hecker
Stanford University

For sustained international leadership involving nuclear technologies, including the U.S.-Russian Lab-to-Lab Program that prevented "brain drain" of scientists after collapse of the Soviet Union.

Distinguished Service Award



Presented to:
Dr. John Bennion
GE Hitachi

In recognition of his lifelong service to increase public understanding of nuclear science and engineering by promoting the importance of professional licensure at the section, division, and national level.

Leadership Award



Presented to:
Dr. Rebecca L. Steinman
Exelon Generation

In recognition of her unwavering commitment and continuous drive towards excellence to increase public understanding of nuclear science and engineering by contributing to the work of professional associations, schools, and the professional, scientific and technical press.

Presidential Citation

Presented to: ANS Young Members Group

For outstanding leadership in generating digital content and creating value for the Society.

AWARDS PRESENTED ELSEWHERE Outgoing President Appreciation



Presented to:
Marilyn Kray,
President, American Nuclear Society,
2019-2020

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

During her term, Marilyn Kray represented ANS at various venues worldwide by highlighting the importance of nuclear applications in the world today and in the future. In addition, she deftly led the Society through times of unprecedented challenges, including implementation of significant staff and organizational restructuring designed to create more financially sustainable operations, and adjusting all Society activities to accommodate the COVID-19 pandemic.

For this and other contributions to ANS and the nuclear community it represents we thank Marilyn Kray for her service.

DIVISION-ADMINISTERED AWARDS

FCWMD Lifetime Achievement Award



Presented to:
Dr. Andrew G. Sowder
Electric Power Research Institute

For years of exceptional service to ANS and the nuclear industry in the areas of spent fuel reprocessing and disposal, accident tolerant fuel, and nuclear fuel cycle analysis. This award will be presented in November.

FCWMD Significant Contribution Award



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

For her significant contributions to the nuclear industry across the globe and for her commitment to promoting diversity. This award will be presented in November.

FCWMD Distinguished Service Award



Presented to: Mr. Jeffery R. Brault

For his constant dedication and enthusiasm towards the American Nuclear Society, and sustained commitment to the Fuel Cycle & Waste Management Division's mission. This award will be presented in November.

Don Miller Nuclear Instrumentation, Control and Human-Machine Interface Technology Awards (HFICD)



Presented to:
Mr. David L. Rahn
U.S. Nuclear Regulatory Commission

In recognition of outstanding achievement in the application of Instrumentation, Control and Human-Machine Interface Technologies.

For his development of methods and criteria for assessing the capability of equipment to perform reliably and for ensuring the conditions within nuclear reactors can be adequately monitored after a severe accident. This award will be presented in November.



Presented to:
Dr. Richard T. Wood
University of Tennessee Knoxville

In recognition of outstanding achievement in the application of Instrumentation, Control and Human-Machine Interface Technologies.

In recognition of his lifelong commitment and contributions to nuclear digital system design, licensing, and standards, with an emphasis on all aspects of digital system safety, reliability, and qualification in the United States and international communities. Presented in November.

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



Presented to:
Ms. Pareez E. Golub
Sargent & Lundy

In recognition of outstanding midcareer contribution to nuclear instrumentation and control technologies.

For outstanding and sustained contributions to ANS, HFICD, and the field of digital instrumentation and control, and for leadership in revising the NRC licensing process for digital protection systems and increasing utility confidence and clarity in the implementation of digital protection systems upgrades. This award will be presented in November.

Ted Quinn Early Career Award (HFICD)



Presented to:
Mr. Samir Darbali
U.S. Nuclear Regulatory Commission

In recognition of outstanding early career contributions to nuclear instrumentation and control technologies.

For exceptional engineering accomplishments in protecting public health and safety by ensuring the safe operation of nuclear power plants through advancements in the licensing process, SDOE and EMP guidance. Presented in November.

W. Bennett Lewis Award (DESD)



Presented to:

Dr. William H. Hannum

In recognition of his valuable contributions to the development of sustainable energy, in particular for his lifelong leadership and untiring efforts in advancing safe and environment-friendly nuclear energy by means of fast-neutron fission technology including its fuel cycle. Presented in November.

Arthur Holly Compton Award in Education (ETWDD)



Presented to:
Dr. X. George Xu
Rensselaer Polytechnic Institute

For his legacy as a teacher, mentor, and researcher who has impacted a generation of nuclear engineers and health/medical physicists at Rensselaer and beyond.

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 2020-2021 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

William Gordon - Libertyville High School (IL) Arushi Harkawat - Liberal Arts and Science Academy High School (TX)

Brendan McCluskey - Neuqua Valley High School (IL) Landry Wells - Central Magnet School (TN)

Zhouhui Wu - California High School (CA)

ANS Undergraduate (Sophomore)

Jasmine Dinari - University of Illinois at Urbana-Champaign

Benjamin McNeely — University of Massachusetts- Lowell Sierra Tutwiler - Virginia Commonwealth University Katy Worrell - University of Tennessee, Knoxville

ANS Undergraduate (Junior/Senior)

Ketaki Joshi - University of Tennessee — Knoxville Zachary Lalliss - Utah State University Thomas Mundy - University of Michigan - Ann Arbor Maddie Ratner - University of Tennessee — Knoxville Erik Smith - University of Illinois at Urbana-Champaign William Welch - University of California, Los Angeles

Angelo F. Bisesti Memorial Scholarship

Ammon Black - Utah State University

Raymond DiSalvo Memorial Scholarship

Samuel Varghese - University of California, Berkeley

William R. & Mila Kimel Nuclear Engineering Scholarship

Jack Fletcher - Missouri University of Science and Technology Jeremy Mateja - Purdue University

John R. Lamarsh Memorial Scholarship

Abigail M. Davis - North Carolina State University

Hans P. Loewen Memorial Scholarship

Madison Allen - University of Tennessee, Knoxville

Accelerator Applications Division Scholarship

Noah M. Higgins - North Carolina State University

Decommissioning and Environmental Sciences Division Undergraduate Scholarship

Kaylee M. Cunningham – University of Florida

ANS Joseph Naser HFIC Division Undergraduate Scholarship

Not awarded

Operations and Power Division Scholarship

Eli Boland - Missouri University of Science & Technology Brian Merritt - Brigham Young University

Fusion Energy Division Dr. Kenneth R. Schultz Undergraduate Scholarship

Jacob M. Halpern – Purdue University

Rudy Stamm'ler Undergraduate Reactor Physics Scholarship

Emily H. Vu - University of Michigan, Ann Arbor

Charles (Tommy) Thomas Memorial Scholarship

Gregory A. Ryba - University of New Mexico

American Nuclear Society Scholarship Award Recipients

GRADUATE CATEGORY

ANS Graduate

Junghyun Bae - Purdue University Adam Darr - Purdue University Robert Olsen - Oregon State University Roxanne Pinsky - University of Michigan Rittu Raju - University of Michigan Mara Watson - Clemson University

Everitt P. Blizard Graduate Scholarship

Kalin R. Kiesling - University of Wisconsin-Madison

Robert A. Dannels Memorial Scholarship

Alexander E. Perry – Texas A&M University

Decommissioning & Environmental Sciences Division Graduate Scholarship

Anna Deak - Colorado State University

Ely M. Gelbard Graduate Scholarship

Michael Hua - University of Michigan

Alan F. Henry/Paul A. Greebler Memorial Scholarship

Miriam A. Kreher – Massachusetts Institute of Technology

ANS Lawrence E. Hochreiter Graduate Scholarship

Ishak Johnson - University of California, Berkeley

Saul Levine Memorial Scholarship

Aaron Huxford - University of Michigan, Ann Arbor

Michael J. Lineberry Graduate Scholarship

Kathryn Mummah - University of Wisconsin-Madison

Nuclear Criticality Safety Pioneers Scholarship

Nina C. Fleming - North Carolina State University

Fuel Cycle & Waste Management Division John D. Randall Scholarship

Dimitris Killinger – Virginia Commonwealth University

James F. Schumar Scholarship

Pierre-Clément A. Simon - Pennsylvania State University

Robert E. Uhrig Graduate Scholarship

Sawyer B. Irvine - University of Tennessee, Knoxville

Vogt Radiochemistry Scholarship

Samanth A. Labb - Colorado State University

NEED Scholarships John and Muriel Landis Scholarships Madison Allen - University of Tennessee - Knoxville

Sarah E. Ebert - North Carolina State University
Megan E. Hoover – Clemson University
Kalin R. Kiesling - University of Wisconsin-Madison
Sierra A. Tutwiler - Virginia Commonwealth University

• Community College/Trade School Scholarship • Kent Hamlin Memorial Scholarship

Zachary Deziel - Three Rivers Community College Daniel Nevius - North Carolina State University

Local Section Scholarships ANS Oak Ridge / Knoxville Local Section Graduate Scholarship

Amanda M. Bachman - University of Illinois, Urbana-Champaign

ANS Oak Ridge / Knoxville Local Section Undergraduate Scholarship

Charles M. McSwain - University of Tennessee, Knoxville

Pittsburgh Local Section Graduate Scholarship

Turner Cotterman - Carnegie Mellon University

Pittsburgh Local Section Undergraduate Scholarship

Veronica Heyl - North Carolina State University

Washington, DC Local Section Undergraduate Scholarship

Philip Dodge - University of Maryland, College Park

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 2020:

Rensselaer Polytechnic Institute Alpha Nu Sigma

Ryan Bedell

Camden Eugene Blake

Peter Brain

Matthew Phillip Doty Clark

Anthony Dai Jake Fay Alexander Fung Myles John Gavilan

Alexander Sebastian Hauck

Brendan Lutz

Victoria Isabel Makara

Max Rose Gregory Siemers Kyle Matthew Warns

The Ohio State University Alpha Nu Sigma

Matthew George Bisbee Tseelmaa Byambaakhuu

Wei Gao

Timothy Daniel Miles Ananthi Renganathan Joshua Rocheleau Nathan Maxwell Smith

United States Military Academy (West Point) Alpha Nu Sigma

Nathan Daniel Ault
Travis John Catina
Collin Randall Combs
Sean Oliver Fitzsimons
Mathew Benjamin Flynn
Christopher Adam Johnson
Michael Kenneth Moore
Nathaniel Elkin Peek
Jeffrey Scott Price
Nathan James Schubring
Jerod William Warren

University of Michigan Alpha Nu Sigma

Anil Bansal

Isaac Gabriel Dabkowski

Thomas Folk
Colton Ward Graham
Nicholas F. Herring
Lincoln Johnston
Joseph Messina
Bryan Morgan
Valentin Pauly
Eric John Pearson

Keegan Donovan Pombier

Reid Sobota

Rigoberto Vazquez, Jr.

University of Tennessee Alpha Nu Sigma

Kyle E. Anderson

Mr. Andrew William Decker

Robert Kile

Mairead Montague Quinton Jace Terry John Charles Wagner

Massachusetts Institute of Technology Alpha Nu Sigma

Mr. Brandon Aranda

Mr. Norman Cao

Mr. Loukas Leonidas Carayannopoulos

Mr. Florian Chavagnat Mr. Benjamin Dacus Mr. Liam Hines Mr. Haeseong Kim

Mr. Ethan Avram Klein

Maj. William Lawrence Koch

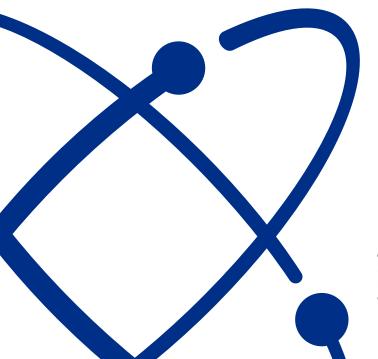
Mr. Evan Leppink Ms. Peninah Levine Ms. Jane Reed Mr. Shangiie Xue



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