



ANS Winter Meeting & Expo

2019

Honors and Awards Recipients



November 17-21, 2019
Washington D.C.
Marriott Wardman Park



American Nuclear Society

ANS Opening Plenary Session Awards

Monday, November 18
8:00-11:30 am

AWARD RECIPIENTS

Presentation Of Awards

Hussein S. Khalil
Honors and Awards Committee Chair

ANS Fellow Inductions

Dwight D. Eisenhower Medal

Walter H. Zinn Medal

E. Gail de Planque Medal

Mary Jane Oestmann Professional Women's Achievement Award

Mishima Award

Landis Public Communication and Education Award

Young Members Advancement Award (YMG)

Young Member Excellence Award (YMG)

Standards Service Award

W. Bennett Lewis Award (DESD)

Division Acronyms

DESD - Decommissioning and Environmental Sciences Division

ETWDD - Education, Training and Workforce Development Division

FED - Fusion Energy Division

FCWMD - Fuel Cycle and Waste Management Division

IRD - Isotopes and Radiation Division

OPD - Operations and Power Division

YMG - Young Members Group

Plenary Session Awards

ANS Fellows



Presented to:

Dr. Jeremy T. Busby
Oak Ridge National Laboratory

For significant contributions to the understanding of materials performance and development of improved materials for a wide variety of nuclear reactor applications, including space reactors, fusion reactors, advanced fast reactors, and light water reactors. His diverse research has enabled development and deployment of improved structural materials for harsh environments, resulting in more safe, reliable, and cost-effective nuclear systems.



Presented to:

Prof. Jin Jiang
University of Western Ontario

As a Distinguished University Professor and an Industrial Research Chair, Dr. Jiang is renowned for his expertise in instrumentation and control systems for nuclear plants. His seminal contributions to these systems have made significant impacts within both academic communities and nuclear industries worldwide.

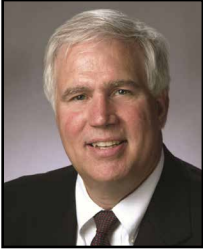


Presented to:

Dr. Stephen G. Johnson
Idaho National Laboratory

For unparalleled leadership in rebuilding the assembly, testing, and transportation infrastructure of the national radioisotope power system program and for on-schedule delivery of the power systems for NASA's Pluto and Mars missions.

Dwight D. Eisenhower Medal



Presented to:

**Dr. Richard A. Meserve
Covington and Burling LLP**

In recognition of sustained exemplary leadership in domestic nuclear safety, policy and technology development and vital contributions to nuclear safety around the world. This award will be presented at the NNPD Special Panel Session on Monday, November 18 at 1:00 pm.

Dwight D. Eisenhower Medal



Presented to:

**Dr. John H. Hamre
Strategic and International Studies**

For distinguished leadership of the Center for Strategic and International Studies whose reports and conferences have informed the United States' nuclear energy and nonproliferation policies. This award will be presented at the NNPD Special Panel Session on Monday, November 18 at 1:00 pm.

Walter H. Zinn Medal



Presented to:

**Dr. Ann Bisconti
Bisconti Research Inc.**

Through her demonstrated leadership in public opinion and communication issues and her commitment to mentoring of future leaders, Dr. Bisconti has made outstanding contributions to the advancement of nuclear energy in the U.S. and around the world.

E. Gail de Planque Medal



Presented to:

Julie G. Ezold
Oak Ridge National Laboratory

For the advancement of radioisotope production that led to the synthesis of new elements, and for contributions to space exploration and training of a new generation of nuclear scientists.

Mary Jane Oestmann Professional Women's Achievement Award



Presented to:

Dr. Anna S. Erickson
Georgia Institute of Technology

For outstanding fundamental contributions in the field of radiation measurement, development of a novel experimental design curriculum, and leadership in addressing nonproliferation problems by building an expert community in advanced detection technologies.

Mishima Award



Presented to:

Dr. Yutai Katoh
Oak Ridge National Laboratory

For being a leading architect of today's nuclear grade ceramic composites, elevating them from laboratory curiosity to engineering materials of importance through the application of fundamental materials science.

Landis Public Communication and Education Award



Presented to:

Carl A. Willis
University of New Mexico

For outstanding contributions in public education and communication of peaceful applications of nuclear science and technology.

Young Members Advancement Award (YMG)



Presented to:

Dr. Paul P. Wilson
University of Wisconsin Madison

For outstanding contributions towards young members' advancement through his support of students' and young professionals' involvement in all levels of the Society.

Young Member Excellence Award (YMG)



Presented to:

Alyse S. Huffman
**U.S. House Science, Space, and
Technology Committee**

For her dedication and excellence in advocating for nuclear science, engineering, and technology.

Standards Service Award



Presented to:

James Florence
Nebraska Public Power District

In recognition of nearly three decades of dedicated work on ANS standards. Specifically, his exemplary leadership and consensus-building skills were instrumental to the successful revision of ANS-3.5. Furthermore, his engagement on industry committees has contributed much in the field of power plant simulators and the principles that govern them.

Standards Service Award

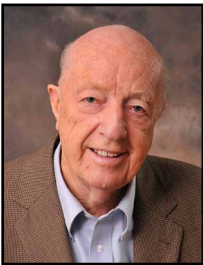


Presented to:

Dr. Ian B. Wall
Consultant

In recognition of two decades of sustained critical contributions to developing and maintaining joint ANS and ASME standards for probabilistic risk assessment (PRA). This includes significant technical contributions and insistence on the appropriate use of “excellence of language” for all PRA standards, promoting schedule adherence, and mentoring young participating professionals.

W. Bennett Lewis Award (DESD)



Presented to:

Dr. B. John Garrick
Consultant

In recognition of his contributions to the development of sustainable energy, particularly through his lifelong leadership and untiring efforts in the application of the risk sciences to complex nuclear systems.



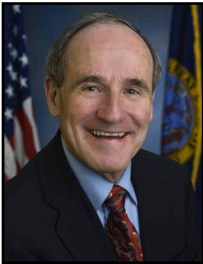
American Nuclear Society

ANS President's Special Session Awards

Tuesday, November 19
8:00-10:00 am

AWARD RECIPIENT

Presidential Citation



The Presidential Citation will be Presented to:

Sen. James E. Risch
U.S. Senator for Idaho

In recognition for his efforts to strengthen the U.S. nuclear enterprise through international trade and collaboration, and a serve as champion for the men and women of the American nuclear community.

Awards Presented Elsewhere

Mark Mills Award (ETWDD)



Presented to:

Caleb P. Massey
University of Tennessee
Knoxville

For his work entitled:

“Multiscale investigations of nanoprecipitate nucleation, growth, and coarsening in annealed low-Cr oxide dispersion strengthened FeCrAl powder.”

Mark Mills Award (ETWDD)



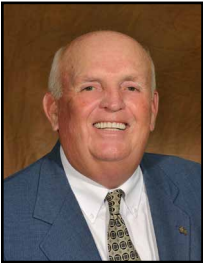
Presented to:

Majdi I. Radaideh
University of Illinois,
Urbana-Champaign

For his work entitled:

“Combining simulations and data with deep learning and uncertainty quantification for advanced energy modeling.”

Robert L. Long Training Excellence Award (ETWDD)



Presented to:

Dr. Harold L. (Lee) Dodds, Jr.
University of Tennessee
Knoxville

For over 40 years of outstanding service and leadership in nuclear engineering education and training that has benefited both on-campus students and working professionals. This award was previously presented.

Edward Teller Award (FED)

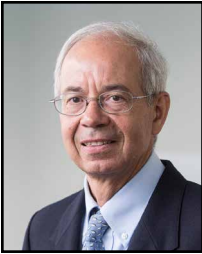


Presented to:

Prof. Xian-Tu He
Institute of Applied Physics and
Computational Mathematics

For his outstanding leadership in the development of the Chinese inertial confinement fusion program and his significant contribution to target physics and high energy density physics. This award was previously presented at IFSA 2019 in September.

Edward Teller Award (FED)



Presented to:

Dr. Patrick Mora
Ecole Polytechnique

For his groundbreaking scientific contributions to laser-plasma physics, from laser light absorption to non-local electron heat transport and plasma expansion dynamics, and for his inspiring spirit of community service. This award was previously presented at IFSA 2019 in September.

FCWMD Lifetime Achievement Award



Presented to:

Dr. Mary Lou Dunzik-Gougar
Idaho State University

Together with her impressive contributions to nuclear chemistry and engineering, Professor Dunzik-Gougar has been a tireless contributor to the educational outreach of the Fuel Cycle and Waste Management Division of ANS.

FCWMD Significant Contributions Award



Presented to:

Dr. Patricia D. Paviet
Pacific Northwest National
Laboratory

In recognition of her many accomplishments as a researcher, educator, manager, and leader in the field of radiochemistry associated with the nuclear fuel cycle. This award was previously presented at Global/Top Fuel 2019 in September.

FCWMD Distinguished Service Award



Presented to:

Dr. Sven O. Bader
Orano Federal Services LLC

For leading the FCWMD Closing the Fuel Cycle Grand Challenges Initiative and for sustained commitment to the Division's mission. This award was previously presented at Global/Top Fuel 2019 in September.

Radiation Science and Technology Award (IRD)



Presented to:

Prof. Areg Danagoulian
Massachusetts Institute
of Technology

For technology-critical contribution exploiting nuclear resonance phenomena for warhead verification in nuclear disarmament and nuclear detection techniques in cargo security. This award was previously presented.

THD Technical Achievement Award



Presented to:

Dr. Shripad T. Revankar
Purdue University

For his significant contributions to reactor thermal-hydraulics through experiments, and modeling of phenomena important in the analysis of nuclear reactor safety and applications. This award will be presented at a THD function at this meeting.

Meritorious Performance In Operations Award (OPD)



Presented to:

Callaway Energy Center,
Ameren Missouri



Through teamwork and innovation, Callaway completed five breaker-to-breaker runs in the last 12 years demonstrating Outstanding On-line Equipment Reliability Excellence. This award was previously presented at UWC in August.

Utility Achievement Award (OPD)



Presented to:
Southern Nuclear

For improvement in fleet operations as recognized by having the best fleet capacity factor in the US over the previous three years with a capacity factor of 94.49%. This was an improvement of 1.5% over the previous 3 years compared to the industry which improved 0.6%. This award was previously presented at UWC in August.

Utility Leadership Award (OPD)



Presented to:
James A. Ripple
Southern Nuclear

For exemplary leadership in Supply Chain Support of the Southern Nuclear Fleet and Construction of Vogtle Units 3 and 4 over a wide range of programs including change management, financial management, employee development, sourcing and vendor oversight as well as providing sustained industry leadership within multiple national organizations. This award was previously presented at UWC in August.

Samuel Glasstone Award (ETWDD)



[Back Row] Michael Tanguay (Secretary), Benjamin Houldridge (Treasurer), Mekiell Olguin (External Communications Officer), Carl Wills (Outreach Officer), Dustin Dealy (Vice President).

[Front Row] Matthew Gervasi (Internal Communications Officer), Gemma Irais Strong (Member at Large), Lauren Crabtree (President), Bobbi Ridel (Policy Officer).

Best Student Section

University of New Mexico

Second Place

University of Idaho

Third Place

University of Illinois Urbana Champaign

Honorable Mention

University of Wisconsin

For accomplishing the most notable achievement in public service and the advancement of nuclear engineering during the year.

These awards were previously presented.

Local Section Meritorious Awards (ETWDD)

Best Membership

Oak Ridge/Knoxville

Best Meetings and Programs

Eastern Washington

Best Public Information and Education

Savannah River

Best Section Management

Savannah River

The Local Section Meritorious Awards recognize ANS Local Sections that have conducted the most worthwhile events, and have shown outstanding membership growth, participation, and administration during the award year. These awards will be presented at the Local Sections Workshop on Sunday, November 17.

Student Design Competition (ETWDD)

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

University of Tennessee

Equilibrium Core Design of a NuScale Designed Small Modular Reactor using CASL's Virtual Environment for Reactor Applications (VERA)

Students: Michael Hines, Molly Underwood, Andrew Naylor,
Madeleine Burrell, Logan Clowers, and Kalie Knecht
Advisor: Dr. G. Ivan Maldonado

Rensselaer Polytechnic Institute

Design of a Zirconium Critical Benchmark

Students: Ngai To Yu, Chad Meece, Robert Jacob,
Gabiella Bruno, and Ryan O'Neill
Advisor: Prof. Yaron Danon

Graduate Student finalists (in no particular order):

Colorado School of Mines

Fusion-Fission Hybrid Reactor for Waste Transmutation

Students: Yerkebulan Ali, Brian Arko,
Jonathan Karpesky, and Adam Parler
Advisor: Dr. Jeffrey King

University of Idaho

Design of Molten Salt Nuclear Battery (MSNB)

Students: Eugene Engmann, John Peterson, James Richards,
Derreck Blight, Winfred Sowah, and Joseph Warner
Advisor: Dr. Richard N. Christensen

**These finalist teams will make their presentations at the Student Design Competition on
Monday, November 18 at 1:00 pm.**

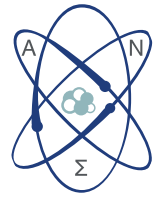
Glenn T. Seaborg Congressional Science and Engineering Fellowship



The 2020 fellowship has been awarded to:

Bradley J. Williams
U.S. Department of Energy

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. Douglas Wade Chartier

Lt. John H. Christie

Mr. Medwell William Hill

Mr. Michael James Jividen

Mr. Michael Jacob Knoebel

Ms. Mara Knopic

Mr. Richard C. Moore, Jr.

Mr. Jerry Brandon Norris

Mr. Raymond John Staley

Mr. Preston Tharp



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**Nuclear Technology for
the U.S. and the World**

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