

ANS® Annual Meeting

2022



THE NEW OUTLOOK

Honors and Awards Recipients

June 12–16, 2022
Anaheim, CA
Anaheim Hilton

EMBEDDED TOPICAL MEETINGS

Advances in Thermal Hydraulics (ATH 2022)

Nuclear Criticality Safety Division Topical Meeting (NCS D 2022)

Technology of Fusion Energy (TOFE)



American Nuclear Society

Plenary Session/Keynote Panel Awards

Monday, June 13, 2022
8:00–11:30AM



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

Henry DeWolf Smyth Nuclear Statesman Award

Special Award For Outstanding Contributions to Retaining the Operations and Lifetime of Zero Carbon Nuclear Reactors

Walter H. Zinn Medal



Presented to:

Dr. Per F. Peterson, PE
University of California, Berkeley

In recognition of his contributions to the development of technologies for passive safety in nuclear reactors, and his leadership to develop and commercialize fluoride salt cooled high temperature reactors.

Henry DeWolf Smyth Nuclear Statesman Award



Presented to:

Mr. William (Bill) E. Webster, Jr.
Japan Nuclear Safety Institute (JANSI)
Duke Energy

In recognition of his superior leadership and unwavering commitment to nuclear safety and contributing to operational excellence persisting as a core value for the nuclear industry.

ANS Fellows



Presented to:

Dr. John G. Gilligan
North Carolina State University

In recognition of his capable leadership of DOE-NE's university programs, expanding their scope and size, and enhancing the engagement of the nuclear engineering academic community with national laboratories and industry for the betterment of the US innovative nuclear energy posture.



Presented to:

Mr. Scot A. Greenlee
Constellation Generation

In recognition for leading industry initiatives that have improved nuclear plant performance and economic competitiveness including: implementing risk-informed programs and regulations, digitalization of control systems, and advancements in accident tolerant fuel.

Landis Young Member Engineering Achievement Awards



Presented to:

Prof. Caleb S. Brooks

University of Illinois, Urbana - Champaign

In recognition of his service to ANS, his high-quality and high-impact research in reactor safety, and his continued work to make micro-reactor technology a reality on campus.



Presented to:

Dr. Katrina M. Groth

University of Maryland

In recognition of her sustained technical excellence in nuclear safety, probabilistic risk assessment, and human reliability analysis.

Landis Young Member Engineering Achievement Awards



Presented to:

Dr. Christian M. Petrie
Oak Ridge National Laboratory

In recognition of his leadership in developing novel irradiation capabilities, fiber optic sensors, and advanced manufacturing processes for embedding sensors to accelerate qualification of new nuclear materials.

Mishima Award



Presented to:

Prof. James F. Stubbins, PE
University of Illinois, Urbana - Champaign

In recognition of advancing nuclear science and technology in nuclear materials, irradiation damage and effects, mechanical properties, high temperature corrosion, stress corrosion cracking and electron microscopy.

Special Award for Outstanding Contributions to Retaining the Operations and Lifetime of Zero Carbon Nuclear Reactors



Presented to:

**Dr. Bruce Hallbert
Idaho National Laboratory**

In recognition of his dedication in the creation and deployment of the Light Water Reactor Sustainability Program, benefiting the continued operation of U.S. nuclear power plants.



American Nuclear Society

President's Special Session

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



AWARD RECIPIENTS

Presentation of Award:

Steve Nesbit
ANS President

Presidential Citations

Presidential Citations



Presented to:

Dr. Nathan A. Carstens
Pacific Northwest National Laboratory

For outstanding service in national education activities supporting professional licensure.



Presented to:

Dr. Hans David Gougar
X-energy, LLC

For his longtime support of ANS, including the development and adoption of Society Bylaws and Rules changes needed to implement the 2020 Change Plan.



Presented to:

Dr. N. Prasad Kadambi
Kadambi Engineering Consultants

For sustained contributions to ANS, including his leadership in the areas of risk-informed, performance-based rulemaking and advanced reactors.

Presidential Citations



Presented to:

Dr. Gene A. Nelson

Californians for Green Nuclear Power, Inc.

For his unflagging work with Californians for Green Nuclear Power to expose the hypocrisy associated with the planned shutdown of the Diablo Canyon Nuclear Power Plant and his support of efforts by ANS and other organizations to prevent the shutdown.



Presented to:

Dr. Jacopo Buongiorno

Massachusetts Institute of Technology

For his outstanding support of ANS Crisis Communications.



Presented to:

Mr. James W. Behrens

U.S. Navy

For building a strong relationship between ANS and the United States Navy nuclear program, including the U.S. Naval Academy Student Section.

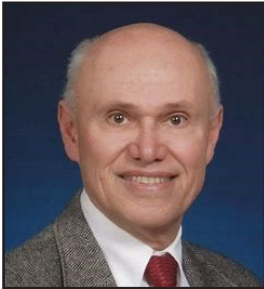
Presidential Citations



Presented to:

Dr. H. M. "Hash" Hashemian
Analysis and Measurement Services

For his many and varied contributions to ANS, including his service as Chairman of the Honors and Awards Committee.



Presented to:

Mr. Lake H. Barrett
L. Barrett Consulting, LLC

For his extensive and distinguished service to the American Nuclear Society and the nuclear technology field at large.



Presented to:

Dr. Amir A. Bahadori
Kansas State University

For his effective leadership addressing radiation issues for ANS, including the revision of Position Statement 41 "Health Effects of Low-Level Radiation."

Presidential Citations



Presented to:

Dr. Matthew Jeffrey Jasica
Argonne National Laboratory

For outstanding service as the chair of the Young Members Group.



Presented to:

Ms. Amanda M. Bachmann
University of Illinois, Urbana-Champaign

For her service on the Board of Directors and other committees and for her leadership among student members.



Presented to:

Dr. Sven O. Bader
Orano USA

For his many and varied contributions to ANS (committees, conferences, standards, and scholarships) and his leadership in the technology and policy aspects of the nuclear fuel cycle.

Presidential Citations



Presented to:

Ms. Lisa M. Marshall
North Carolina State University

For her sustained support of ANS over many years and in many areas, most notably education, scholarship, and diversity.



Presented to:

Ms. Kathryn A. Mummah
University of Wisconsin-Madison

For her service on the Board of Directors and other committees and for her leadership among student members.

AWARDS PRESENTED ELSEWHERE

Outgoing President Appreciation



Presented to:

**Steven P. Nesbit, P.E.
2021-2022 President
American Nuclear Society**

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

During his term, Steven Nesbit led ANS through our return to normal including the first in-person meetings in two years. Steve' strong public voice on behalf of maintaining the current nuclear fleet, the licensing and development of advanced nuclear reactors, and practical progress toward a rational nuclear fuel policy, helped shape a more favorable climate for nuclear science and technology in the public domain. His decisive leadership during the Russian invasion of Ukraine provided meaningful support to the international nuclear community at a critical time and showed the world what ANS can do.

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

Arthur Holly Compton Award in Education (ETWDD)



Presented to:

Dr. Michael F. L'Annunziata
The Montague Group

For reaching countless students worldwide over the past 50 years through his teaching and books on the detection and measurement of radionuclides and peaceful applications of nuclear energy.

FCWMD Lifetime Achievement Award



Presented to:

Dr. Robert Einziger
Independent Consultant

Nuclear Waste Technical Review Board

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 Distinguished Service Award



Presented to:

Dr. Jean-Francois (Jef) Lucchini
Los Alamos 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 Significant Contribution Award



Presented to:

Mr. Robert L. Howard
Pacific Northwest National Laboratory

For sustained and dedicated leadership to the resolution of the nation's nuclear waste issues for more than 30 years.

FED Outstanding Achievement Award



Presented to:

Dr. Charles "Chuck" Kessel
Oak Ridge National Laboratory

In recognition of his leadership in fusion technology and fusion energy systems towards the development of a viable fusion power plant.

FED Technical Accomplishment Award



Presented to:

Dr. Tatyana Sizyuk
Argonne National Laboratory

In recognition of her innovative and integrated development of the computer simulation package ITMC-DYN for plasma-material interaction in fusion devices.

Don Miller Award (HFICD)



Presented to:

**Dr. and Mrs. Imre and Maria Pázsit
Chalmers University of Technology**

For elaboration of new noise analysis methods for surveillance and diagnostics, and their implementation and application at Swedish nuclear power plants.

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



Presented to:

**Dr. Leo S. Fifield
Pacific Northwest National Laboratory**

For scientific leadership and long-term career dedication aimed at improving the understanding of electrical cable aging and degradation within nuclear power plants.

Ted Quinn Early Career Award (HFICD)



Presented to:

Dr. N. Dianne B. Ezell
Oak Ridge National Laboratory

For her leadership in developing nuclear instrumentation for advanced reactors and extreme environments.

Meritorious Service Award (THD)



Presented to:

Dr. Kurshad Muftuoglu
Global Nuclear Fuel

In recognition of his long-standing contributions as Program Committee Chair from 2004 to 2013, as Assistant General Chair of NURETH-12 (Pittsburgh, 2007), as General Co-Chair of NURETH-18 (Portland, 2019), and as THD Executive Committee Chair in 2018.

Early Career Reactor Physicist Award (RPD)



Presented to:

Dr. Anna S. Erickson
Georgia Institute of Technology

For outstanding novel contributions bridging advanced sensing, experimental reactor physics, reconstruction and design through synthesis of novel sensors and reactor physics including data-driven prognostics enabling licensing, deployment and secure operation.



Presented to:

Dr. Dan Kotlyar
Georgia Institute of Technology

For multiple innovative contributions to coupled Monte Carlo depletion and multi-physics simulations and their application to the design of advanced nuclear 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 2022-2023 academic year. This year, ANS awarded \$241,000 in scholarships to 87 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

Denver Bush, Carroll Senior High (TX)
Bridget K. Delacimo, Louisville High School (OH)
Charles A. Harmon, West Linn High School (OR)
Alison F. Hildebrand, Westfield High School (IN)
Hillary Khuu, Hercules High School (CA)
Carter E. Luker, Hillcrest High School (ID)
Brent M. O'Hearn, Dennis-Yarmouth Regional High School (MA)
Logan C. Theriot, Hico High School (TX)
Nathan A. Wagner, Madison West High School (WI)
Roger W. Wszolek, III, The Woodlands College Park High School, (TX)

ANS Undergraduate (Sophomore)

Ethan Brockmeier - Colorado State University
Sarah E. Cole - Boise State University
Brisson Cowan - Oregon State University
Lauren A. Kohler - North Carolina State University
Riley G. Trendler - University of Illinois at Urbana-Champaign

ANS Undergraduate (Junior/Senior)

Evelyn P. Ayers - Georgia Institute of Technology
Anastasia Baltes - Colorado School of Mines
Kiera V. Burlingame McCord - Three Rivers Community College
Braden K. Clayton - Brigham Young University
Jonathan S. Geymer - University of Texas at Austin
William A. Graham - North Carolina State University
Tu B. Le - Texas A&M University
Narrie Loftus - Missouri University of Science and Technology
Benjamin E. Newhouse - Virginia Polytechnic Institute and State University
Shane Olson - Texas A&M University

Angelo F. Bisesti Memorial Scholarship

Isabella M. Alcorn - Texas A&M University

Raymond DiSalvo Memorial Scholarship

Emma Houston - University of Tennessee at Knoxville

William R. & Mila Kimel Nuclear Engineering Scholarship

Alina S. Jugan - North Carolina State University

Andrew P. Panter - University of Michigan

John R. Lamarsh Memorial Scholarship

Jonathan Liu - Columbia University

Allie Pitcher - North Carolina State University

Hans P. Loewen Memorial Scholarship

Jason Andrews - Texas A&M University

Joseph Naser HFICD Undergraduate Scholarship

Madeline M. Morasca - University of Illinois at Urbana-Champaign

Fusion Energy Division Dr. Kenneth R. Schultz Undergraduate Scholarship

Robert H. Dwyer - University of New Mexico

Rudy Stamm'ler Undergraduate Reactor Physics Scholarship

Grayson S. Gall - North Carolina State University

Accelerator Applications Division Scholarship

Robert J. Mikouchi-Lopez - North Carolina State University

Operations and Power Division Scholarship

Benjamin M. McNeely - University of Massachusetts Lowell

Gibson D. Prall - University of New Mexico

•GRADUATE CATEGORY•

ANS Graduate

Junghyun Bae - Purdue University
Abigail M. Davis - North Carolina State University
Jeffrey A. Laub - University of Tennessee, Knoxville
Brian Merritt - Brigham Young University
Kaelee A. Novich - Boise State University
Timothy L. Phero - Boise State University
Yves Robert - University of California Berkeley
Madison K. Tippet - University of Tennessee, Knoxville
Brice A. Turner - University of Florida
Lorenzo Vergari - University of California, Berkeley
Samuel O. Webster - North Carolina State University

Everitt P. Blizard Graduate Scholarship

Andrew Rosenstrom – Georgia Institute of Technology

Robert A. Dannels Memorial Scholarship

Kathryn A. Mummah - University of Wisconsin, Madison

Decommissioning & Environmental Sciences Division Graduate Scholarship

Elise M. Shauf – Texas A&M University

Vincent J. Esposito Thermal-Hydraulic Graduate Scholarship

Brandon A. Aranda - Massachusetts Institute of Technology

Ely M. Gelbard Graduate Scholarship

Noah M. Higgins – North Carolina State University

Gozani Family Graduate Scholarship

Madeline L. Lockhart – North Carolina State University

Alan F. Henry/Paul A. Greebler Memorial Scholarship

Khaldoon Al-Dawood – North Carolina State University

Lawrence E. Hochreiter Graduate Scholarship

Arturo Cabral – Virginia Commonwealth University

Saul Levine Memorial Scholarship

Egemen M. Aras – North Carolina State University

Michael J. Lineberry Graduate Scholarship

Roxanne Pinsky – University of Michigan

Nuclear Criticality Safety Pioneers Scholarship

Jonathan Crozier – North Carolina State University

Fuel Cycle & Waste Management Division John D. Randall Scholarship

Adrianna E. Lupercio – Boise State University

James F. Schumar Scholarship

22 William Searight – Pennsylvania State University

Robert E. Uhrig Graduate Scholarship

Styliani Pantopoulou – Purdue University

Vogt Radiochemistry Scholarship

Madison N. Allen - University of Tennessee, Knoxville

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

Matthew Alexander Hageman – Oregon State University
Tiara Maria Carrasquillo Pérez - University of Puerto Rico, Rio Piedras Campus

Community College / Trade School Kent Hamlin Memorial Scholarship

Michelle D. Revollo - Chattanooga State Community College

Diversity and Inclusion / NEED Nontraditional Student Scholarships

Jason Andrews - Texas A&M University
Jacob M. Duprey - University of Massachusetts Lowell
Shane Olson - Texas A&M University

John and Muriel Landis Scholarships

Madison N. Allen - University of Tennessee Knoxville
Brandon A. Aranda - Massachusetts Institute of Technology
Kyle R. Holloway - Boise State University
Alina S. Jugan - North Carolina State University
Julia L. Marshall - University of Michigan
Meryem E. Murphy - Virginia Commonwealth University
Sierra Tutwiler - Virginia Commonwealth University

Community College / Trade School

Ruben Anguiano - Hillsborough Community College
Abbigale Apeldoorn - Research Medical Center
Favour O. Ogbinaka - Essex County College
Khaleida Quaiyum - Bronx Community College

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

Madison N. Allen - University of Tennessee Knoxville

ANS Prof. Massimo Salvatores Pittsburgh Local Section Graduate Scholarship

Ezekiel T. Villarreal - University of Pittsburgh

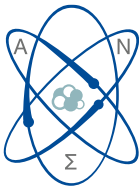
Washington, DC Local Section Jeffrey A. Gorman Undergraduate Scholarship

Sierra Tutwiler – Virginia Commonwealth University

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

Camille S. Levine - University of Maryland, College Park
William Searight – Pennsylvania State 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 2022

Excelsior College

Austin Arnold
Mr. Jacob T. Ashcraft
John M. Baltor
Wayne R. Becker
William R. Bellis
Mr. Alex Donald Beyer
Syed Mohammad Bodruddoza
Aaron Branham
Mr. Thomas Albert Burnelis, SRO
Mr. Phillip Andrew Catanach
William A. Conroy
Matthew A. Coulter
DeVonte Badalas Crews
Christopher E. David
Zachary Day
Benjamin Groshek
Daniel David Guinto Dimal
Mr. Calvin Daniel Haley
Nicolas Hickerson
Ryan Austin Hubbard
Mr. Colin Hunnicutt
Benjamin Kimball
Timothy James Krienke
Kenneth L. Kuper
Tiffany Kutsick
Benjamin MacKay
Francesco Maglione
Zachary Malinowski
Shannon Alyse McLaughlin
Anna-Maria McMurrer

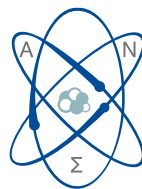
Excelsior College continued

Mr. Garrison Morgan
Jeffrey Odland
Jason M. Ogle
Cody Partridge
Mr. Theodore J. Propst
Peter J. Ritzmann
Joshua F. Rocha
David A. Rodrigues
Mr. David A. Serrano
Megan Spittler
Brian R. Spring
Melissa Stenslie
Alexander J. Tate
Jose Valix
Mr. Ryan Alexis Vázquez Maldonado
Russel Arthur Wagner
Anthony J. Waters
Avalon Wavrunek
Michael W. Zawieruszynski

Kansas State University

Ms. Rebecca Bailey
Mr. Bradley Preston Crouch
Mr. Matthew Culbertson
Micah Delamarter
Mr. Daniel Dale Eckerberg
Mr. Joseph Robert Forbes
Porter Ann Herold
Mr. Ivan Hickert
Mr. Broderick Michael Sieh
Mr. Daniel Louis Patrick Watson

Alpha Nu Sigma National Honor Society



University of Michigan

Ms. Noora Hussein Ba Sunbul
Mr. Flynn Darby
Mr. Yifan Gui
Mr. Peter Gregory Hotvedt
Mr. Patrick Myers
Mr. Andrew Paul Panter
Mr. Aiden Sable
Miss Julianna Lee Schoenwald
Miss Emily H. Vu
Mr. Andrew Wilhelm

Missouri University of Science and Technology

Mr. Kyle Vincent Bean
Mr. Elijah James Boland
Mr. Zachary James Drake
Mr. Jack W. Fletcher
Mr. John David Lankford
Miss Narrie Loftus
Mr. Hayden J. Miller
Ms. Ashley Rachel Raster
Mr. Daniel Ripp
Mr. Ravi Shastri
Mr. Ben Sonpon
Miss Kelcey Alisyn Trusler
Mr. Macklin Charles Zinselmeyer

University of New Mexico

Mr. Phoenix Baldez
Aidana Bauyrzhan
Mr. Ethan Samuel Krammer
Ashley Machado
Mr. Aaron Overacker
Ryan Pena
Miss Alexandria S. Ragsdale
Caleb Shaw
Mr. XiaTong Yang

Oregon State University

Mr. Khalid Alruwaili
Andrew Gisondi
Mr. Tanner Heatherly
Brooke Konstanczer
Carl Laux
Mr. Michael Legatt
Jeshua Olson-Gross
Mr. Hunter G. Wagner

Purdue University

Mr. Oliver Thomas Alisher Abrams
Nathan Audia
Mr. Junghyun Bae
Mr. Mitchell Joseph Boline
Mr. Cameron J. Buerke
Mr. Zachery Thomas Dahm
Caleb Duggan
Mr. Mitchell Ferrel
Mr. Jacob Michael Halpern
Girik Jain
Mr. Akshay Kumar Khandelwal
Mr. Tyler J Lewis
Luke Oukrop
Mr. Zhengting Quan
Mr. Shunjiang Tao
James Cornelius Welch, III
Mr. Jackson J. Wolf
Mr. Haoxuan Yu

University of Tennessee

Mr. Frederic George Harris
Ms. Emma C. Houston
Miss Madison N. Allen
Mr. Ty Austin
Oliver Baldwin
Mr. Jonathan Louis Barthle
Mr. Bailey Thomas Bertrand
Cade Brinkley

University of Tennessee continued

Alexander Choi
Kailee Collins
Casey Corbridge
Mr. Charles Miller McSwain
Mr. Nicholas Militello
Mr. Cale Carlton Overstreet
Mr. Kenneth Howard Bott
Mr. Lance Martin Drouet
Mr. Daniel Fishman
Mr. William Fritsch
Ms. Carlotta Giuliana Ghezzi
Ms. Sophia Hitson
Mr. Zachary Hughes
Ms. Marissa Knofczynski
Mr. Gabriel Ford Lentchner
Mr. Noah Matthew Marks
Mr. Eric Z. Olson
Mr. Hunter Salmon
Mr. Ryan Tan
Mr. Anthony Francis Tom, III
Mr. Christian Young

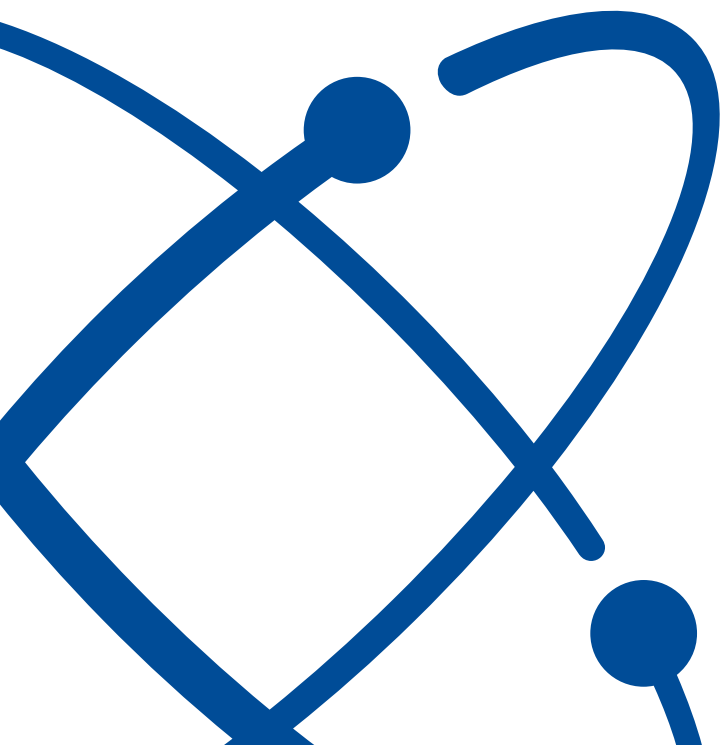
United States Military Academy (West Point)

Mr. Quinn Foster Binney
Mr. Bryant Philip Demoss
Mr. Connor Joseph Fay
Mr. Joseph Grant Garcia
Mr. Caleb Seth Jeffries
Mr. Gordon Tucker Keadle
Ms. Michele Anna Szegda
Mr. Joshua Dow Taylor
Mr. William Ray Tilley
Mr. Daniel Joseph Walker
Mr. Robert Campbell Woody



ANS® Annual Meeting 2022

**June 12–16, 2022
Anaheim, CA
Anaheim Hilton**



American Nuclear Society
555 N. Kensington Ave.
La Grange Park, IL 60526
www.ans.org