UNDERSTANDING TOMORROW'S NUCLEAR ENERGY LECTURE SERIES

DR. KATHRYN D. HUFF

Dr. Kathryn D. Huff serves as the Assistant Secretary for Nuclear Energy. Prior to her current role, she served as the Principal Deputy Assistant Secretary for the Office of Nuclear Energy.

Before joining the Department of Energy, she was an Assistant Professor in the Department of Nuclear, Plasma, and Radiological Engineering at the University of Illinois at Urbana-Champaign where she led the Advanced Reactors and Fuel Cycles Research Group. She was also a Blue Waters Assistant Professor with the National Center for Supercomputing Applications. She was previously a Postdoctoral Fellow in both the Nuclear Science and Security Consortium and the Berkeley Institute for Data Science at the University of California – Berkeley. She received her PhD in Nuclear Engineering from the University of Wisconsin-Madison in 2013 and her undergraduate degree in Physics from the University of Chicago. Her research focused on modeling and simulation of advanced nuclear reactors and fuel cycles.

She is an active member of the American Nuclear Society as the past Chair of both the Nuclear Nonproliferation and Policy Division and the Fuel Cycle and Waste Management Division, and recipient of both the Young Member Excellence and Mary Jane Oestmann Professional Women's Achievement awards. Through leadership within Software Carpentry, SciPy, the Hacker Within, and the Journal of Open Source Software, she also advocates for best practices in open, reproducible scientific computing.

NUCLEAR POWER IN 2050

JANUARY 18, 2023, 3:30-4:30 PM EDT
FOWLER HALL AND VIRTUAL VIA LIVESTREAM
REGISTRATION: https://purdue.university/SMRhuff
RSVP REQUIRED FOR VIRTUAL AND IN PERSON ATTENDANCE

In this talk, Assistant Secretary Huff will provide a potential vision for the future of nuclear power globally and will describe what the federal government, particularly the Department of Energy's Office of Nuclear Energy (NE), is doing today to bring that vision into reality by 2050. This work includes laying the groundwork for peaceful nuclear power to help the U.S. reach net-zero emissions by 2050, for securing and sustaining both the front and back ends of our nuclear fuel cycle, and for expanding international nuclear energy cooperation. This talk will highlight the DOE NE mission, vision, and programs contributing to these goals as well as the opportunities and challenges ahead. These challenges and opportunities include a need to mobilize bold private capital investments, scale-up a skilled workforce, revive and invent critical supply chains, and underpin it all with processes and policies that center equity and justice.

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