NUCLEAR NOW

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# SCHEDULE AT A GLANCE

## Monday, September 14

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<td>Opening Keynote</td>
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<tr>
<td>Diversity and Inclusion Panel</td>
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<td>NuScale Panel</td>
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<td>EQ and Resilience: Learn to Flex Both Muscles</td>
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<td>Social Mixer</td>
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<td>Morning Keynote</td>
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<td>Nuclear in Higher Education Panel</td>
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<td>Oklo Panel</td>
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<td>“Ropes to Know and Ropes to Skip” Seminar</td>
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<td>APS Sponsored Coalition of Nuclear Physicists for Nuclear Threat Reduction Seminar</td>
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<tr>
<td>Afternoon Keynote</td>
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## Wednesday, September 16

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<tr>
<td>Purdue Nuclear Engineering: 60 Years of Atoms for Humanity</td>
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<tr>
<td>Closing Keynote - Diversity in Nuclear: The Future is Bright</td>
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SESSION DESCRIPTIONS

Opening Keynote
MR. WILLIAM MAGWOOD IV
Join us for our opening keynote session presented by Mr. Magwood. He took up his duties as Director-General of the Nuclear Energy Agency (NEA) on 1 September 2014. He has extensive experience in both the regulatory and developmental aspects of nuclear energy, including at the international level. From 2010 to 2014, he served as one of the five Commissioners appointed by the US President and confirmed by the US Senate to the US Nuclear Regulatory Commission (NRC). While a commissioner, he advocated the importance of nuclear regulatory independence and the necessity of maintaining strong, credible, and technically sound nuclear regulation in the United States and all countries that use nuclear power.

Diversity and Inclusion Panel
MR. THOMAS POINDEXTER, MR. JALEN RICE, MS. DESTINY WHITE, MS. NICOLE JACKSON, MR. LARRY FRANCIS JR.
As diversity and inclusion become ever more important in today’s age, it is important to examine the nuclear field and its successes and failures in incorporating all cultures. This panel will highlight experiences of underrepresented minorities in nuclear and provide insight into how the field can continue to be welcoming to individuals of all backgrounds.

NuScale Panel
MS. TRUDY OVERLIN, MS. REBECCA NORIS, MS. RENAE LENHOF, MS. KARIN FELDMAN
This panel will feature the NuScale WIN Chapter with a panel of women from NuScale discussing different career paths within advanced nuclear. It will cover topics such as preparation for the advanced nuclear industry, why they chose nuclear, and advice for upcoming students and young professionals.

EQ and Resilience: Learn to Flex Both Muscles
MS. SANDY LAMB
I believe in a world where all leaders model emotionally intelligent behavior to transform the way their teams collaborate and grow both personally and professionally. Part of demonstrating high EQ includes building resilience in a world that is constantly changing. Are any of you dealing with high levels of challenge and disruption right now? For some of you, the disruption may be motivating you, while for others, it may be draining you of energy. Come join me for this informative and interactive session where I will give you tips on building your resilience muscles through emotional intelligence and how that can bring about high levels of effectiveness and well being. Higher EQ and resilience WILL lead to better decision making and superior performance in all areas of your life!

Social Mixer
Join us for this social mixer, connect with peers and enjoy conversations with our regional partners!

Morning Keynote
DR. RITA BARANWAL
Join us for this session presented by Dr. Rita Baranwal. She serves as the Assistant Secretary for the Office of Nuclear Energy in the U.S. Department of Energy (DOE); she was nominated by the President and confirmed by the U.S. Senate to perform in this role. Dr. Baranwal leads the office’s efforts to promote research and development (R&D) on existing and advanced nuclear technologies that sustain the existing U.S. fleet of nuclear reactors, enable the deployment of advanced nuclear energy systems, and enhance the U.S.A’s global commercial nuclear energy competitiveness.

Nuclear in Higher Education Panel
DR. KATY HUFF, DR. ANGELA DI FULVIO, DR. YI XIE, MS. SARAH LANG, DR. KARA WEATHERMAN
This panel will focus on being a woman in nuclear in higher education. We will have the opportunity to highlight our speaker’s
focuses in their research, education, and different sectors of nuclear in academia. Please join us as we celebrate and listen to the experiences of our members in academia!

**Oklo Panel**
*MS. CAROLINE COCHRAN, MS. EMMA REDFOOT, MS. BONITA CHAN, MS. LAUREN ETIENNE*
This panel will focus on influential women within Oklo's organization and how and why they got to where they are today. The panel will be moderated by Caroline Cochran and the panelists will talk about their experiences as they started Oklo as a nuclear start up in the United States.

**“Ropes to Know and Ropes to Skip” Seminar**
*MS. SUE ABREU*
In your current work, or in the work you hope to have soon, these lessons will help you shine (Ropes to Know) and help you avoid some pitfalls (Ropes to Skip). Some of these valuable lessons were taught to me by wise mentors, others by my own observations, and some by my making mistakes I am hoping you can avoid. These lessons come from my experience as a leader and a follower during my working life beginning when I was a lifeguard at age 13, through working at Purdue, serving in the Army in medicine for a 24-year career, consulting with a variety of companies, and now presiding as an administrative judge for proceedings involving the use of nuclear materials.

**APS Sponsored Coalition of Nuclear Physicists for Nuclear Threat Reduction Seminar**
*DR. ANGELA DI FULVIO*
In this talk, Dr. Di Fulvio will give a brief overview of the resurgent role of nuclear weapons in national security strategies, the threat that it poses to the public, and the risk mitigation approaches that are being debated. Recent events, including U.S. withdrawal from arms control treaties and the pursuit of new nuclear weapons capabilities in the nine nuclear weapons states, suggest we may be facing a resurgent nuclear arms race with its dangerous consequences. Given this situation, the American Physical Society has funded the Physicists Coalition for Nuclear Threat Reduction to reengage scientists with nuclear threat reduction. Dr. Di Fulvio will also be available for discussions after the talk with anyone who might be interested in learning more about this effort and engaging in nuclear threat reduction measures within the framework of the Coalition.

**Afternoon Keynote**
*MS. MARIA KORSNICK*
Join us and learn from Maria Korsnick. She is president and chief executive officer of the Nuclear Energy Institute, the nuclear industry’s policy organization in Washington, D.C. Drawing on her engineering background, hands-on experience in reactor operations and a deep knowledge of energy policy and regulatory issues, Korsnick aims to increase understanding of nuclear energy’s economic and environmental benefits among policymakers and the public. Before joining NEI, she was senior vice president of Northeast Operations for Exelon, responsible for overseeing operation of the Calvert Cliffs 1 and 2, R.E. Ginna, and Nine Mile Point 1 and 2 nuclear power plants.

**Purdue Nuclear Engineering: 60 Years of Atoms for Humanity**
This panel will highlight Purdue's Nuclear Engineering department and how far we as a department have come in the past 60 years. We are so excited to feature and hear about one of our schools from our Region III.

**Closing Keynote - Diversity in Nuclear: The Future is Bright**
*MS. SUZANNE JAWOROWSKI*
A talk from the U.S. Department of Energy, Office of Nuclear Energy about the infrastructure and policy developments the Administration is putting in place to help revive, revitalize and expand the U.S. Civil Nuclear Industry.
MR. WILLIAM MAGWOOD IV, NUCLEAR ENERGY AGENCY, DIRECTOR-GENERAL

Mr. Magwood took up his duties as Director-General of the Nuclear Energy Agency (NEA) on 1 September 2014. He has extensive experience in both the regulatory and developmental aspects of nuclear energy, including at the international level. From 2010 to 2014, he served as one of the five Commissioners appointed by the US President and confirmed by the US Senate to the US Nuclear Regulatory Commission (NRC). While a commissioner, he advocated the importance of nuclear regulatory independence and the necessity of maintaining strong, credible, and technically sound nuclear regulation in the United States and all countries that use nuclear power.

Prior to his appointment at the NRC, from 2005 to 2010 he provided independent strategic and policy advice to US and international clients on energy, environment, education, and technology policy issues. From 1998 to 2005, Mr. Magwood was Director of the US Government’s civilian nuclear energy programme at the US Department of Energy (DOE). During his tenure, he established the Idaho National Laboratory; created activities that reversed the decline of US nuclear technology education; and launched important initiatives such as the Generation IV International Forum (GIF) and the US “Nuclear Power 2010,” which helped restart nuclear plant construction in the United States. He was also actively involved in the work of the NEA, serving as a Steering Committee Bureau member from 1999 to 2005, including a term as Chair of the Steering Committee from 2004 to 2005.

Prior to his experience at the DOE, Mr. Magwood managed electric utility research and nuclear policy programmes at the Edison Electric Institute in Washington, DC, and was a scientist at Westinghouse Electric Corporation in Pittsburgh, Pennsylvania. Mr. Magwood, a US national, holds Bachelor’s degrees in physics and English from Carnegie Mellon University and a Master of Fine Arts from the University of Pittsburgh.

MR. THOMAS POINDEXTER, MORGAN LEWIS, PARTNER

Thomas C. Poindexter attended Purdue University and earned his B.S. in Nuclear engineering in 1977, and his law degree from George Mason University in 1990. He represents nuclear energy clients in licensing, regulatory, and adjudicatory matters before the Nuclear Regulatory Commission (NRC) and the US Department of Energy (DOE). Trained as a nuclear engineer, he has served on several nuclear oversight committees for US utilities with nuclear power facilities, and currently assists nuclear power plants and material licensees in recovering from regulatory, investigation, and enforcement problems. Tom also focuses on emergent issue response, facility performance situations, and regulatory strategic planning.

MR. JALEN RICE, PURDUE UNIVERSITY, NUCLEAR ENGINEERING DEPARTMENT

Jalen Rice is a recent graduate from Purdue University’s nuclear engineering undergraduate program. While at Purdue, Rice was both an active general body member of the NSBE mother chapter, as well as summer counselor and mentor for two years within the Minority Engineering
Program (MEP). Rice was also a research assistant within the Center for Materials Under eXtreme Environment (CMUXE), where he assisted in work associated with nuclear fusion and fusion related sciences. At the end of his time at Purdue, Rice sought to give back to the students by coordinating with his fellow minorities within the School of Nuclear Engineering and founding one of the first minority outreach organizations for nuclear sciences. Minorities in Nuclear Engineering & Sciences (MINES) was founded by both Rice and Destiny White in the Spring in 2020. As of the writing of this biography, Jalen Rice is the sixth African American to receive a B.S. in nuclear engineering from Purdue University.

MS. DESTINY WHITE, PURDUE UNIVERSITY, NUCLEAR ENGINEERING DEPARTMENT

Destiny White is a Junior in nuclear engineering at Purdue University. Throughout her 3 years, she has participated in activities ranging from rowing to nuclear security research. She currently serves as the founder and president of Minorities in Nuclear Engineering and Sciences (MINES), the treasurer of Purdue's American Nuclear Society chapter, and a teaching assistant for the honors engineering program. Her current career aspiration is to work with uranium chemistry and safeguards inspection.

MS. NICOLE JACKSON, PURDUE UNIVERSITY, CHEMICAL ENGINEERING DEPARTMENT

Nicole Jackson is a sophomore in Chemical Engineering with a minor in Women's, Gender, and Sexuality Studies at Purdue University. She is from Southfield, Michigan and on campus she is a member of the National Society of Black Engineers (NSBE), the Chemical Engineering Co-Op Program, and the Global Engineering Alliance for Research and Education (GEARE).

MS. TRUDY OVERLIN, PH.D., COMPLIANCE MANAGER

Trudy Overlin is a veteran of the nuclear industry having worked in the field for more than 30 years. Her career began at the Idaho National Laboratory (INL), one of the Department of Energy’s (DOE) National laboratories. While at INL Overlin worked on many projects including the Initiatives for Proliferation Prevention Program in Eastern Europe and in Critical Infrastructure Protection, transitioning for a time to the Department of Homeland Security, helping to secure the US’s critical infrastructures. Overlin also assisted in nuclear nonproliferation programs and the development of policy documents that led to the approval of the Additional Protocol Treaty.

Overlin currently is the Compliance Manager for NuScale Power, managing all licensing for import and export of technology, and helping to ensure the protection of NuScale’s controlled technology. Her background includes Probabilistic Risk Analysis, Human Factors Engineering Analysis, Safety Analysis, and compliance with all 12 U.S. regulatory entities. Overlin worked on various reactor safety, and control room design projects while working at the INL and has assisted in developing and maintaining NuScale’s Export and Import Compliance program. She continues to support NuScale’s design efforts by completing compliance reviews of all technical documentation provided to the U.S. NRC as part of NuScale’s Design Certification.
Overlin has a Bachelors’ Degree in Forensics Science/Criminology (chemistry and microbiology) from Idaho State University, a second Bachelors’ Degree in Human Factors Engineering, from the University of Idaho, a Masters’ of Public Administration emphasis in International Relations and Foreign Policy and a Doctorate in International Treaty Law from Idaho State University.

MS. REBECCA NORIS, SUPERVISOR LICENSING

Rebecca Norris is a Licensing Supervisor with NuScale Power, a nuclear design company for a 50-60 MWe small modular reactor. She manages Licensing activities in safety analysis, mechanical design, risk assessment, and technical specifications. Prior to joining NuScale, Norris worked as a Senior Reactor Operator at the TRIGA MkII research reactor in the University of Texas undergraduate program, and spent six years in the US Navy nuclear submarine program after graduation. During her time as an officer in the Navy, she was qualified for operation of the boat’s reactor, managing the nuclear weapons onboard, and in ship driving. She recently completed her Masters of Engineering in Nuclear Engineering from Penn State University.

MS. RENAE LENHOF, NUCLEAR FUELS SPECIALIST

Renae Lenhof, Nuclear Fuels Engineer, joined NuScale Power in 2012. She holds a Bachelor's degree in Physics from the University of California at Davis specializing in Astrophysics with a minor in Managerial Economics and holds a Master's degree in Nuclear Engineering from Oregon State University. Prior to joining NuScale, Lenhof started her career in the aerospace and defense industry as an Electrical Engineer at General Atomics. She performed a Probabilistic Risk Assessment of a Vented Fuel System utilized in an Advanced Gas-Cooled Fast Reactor for her graduate thesis work. Her role in the nuclear analysis group at NuScale entails design and analysis of the reactor core, performing reactor physics calculations, and subchannel thermal hydraulic analyses. In addition, she is the chair of the NuScale chapter of Women in Nuclear. Lenhof resides in Corvallis, OR with her husband Joshua, a sports medicine physician with Good Samaritan, her two year old daughter Layla, 5 month old son Landon, and the family dog Olive, an energetic Lab-Husky-Retriever.

MS. KARIN FELDMAN, VICE PRESIDENT OF PROGRAM MANAGEMENT

Karin Feldman, vice president, program management office, joined NuScale Power in 2012. In her current position she is responsible for leading NuScale project and program management and for establishing and maintaining project management, project controls, cost estimating, and risk management standards. She serves as the primary NuScale interface for DOE cooperative agreement management and is responsible for the development and management of the NuScale project portfolio. Prior to assuming this role, Feldman served as the director of planning and integration and the program management office risk manager.

Before joining NuScale, Feldman spent 12 years in the aerospace and defense industry. From 2008- 2012, she was CEO of Zero Point Frontiers Corp. a small business start-up that provided technical and programmatic support to U.S. government and commercial space
programs. She has provided consulting services on risk management, decision analysis, and program planning. Feldman started her career at The Aerospace Corporation, a federally-funded research and development center, where she spent seven years providing risk planning and assessment support for U.S. Air Force and NASA programs. Feldman holds a bachelor’s degree in nuclear engineering and radiological sciences from the University of Michigan and a master’s degree in nuclear engineering from the Massachusetts Institute of Technology.

**MS. SANDY LAMB, ALTITUDE BUSINESS COACHING LLC., CEO**

Sandy had a long career, spanning 27 years with Bechtel Corporation in several business lines, across numerous functions including Cost and Schedule Management, Marketing and Strategy, Contract Management, Acquisitions, Program and Project Management. She was fortunate to travel with her family throughout the U.S. assigned to many signature projects: including Chief of Staff, Homeland Security Technology Program at Nevada Test Site training first responders, Assistant Project Manager on Extended Power Uprate project at St. Lucie Nuclear Power Plant in Florida, and most recently, Program Manager destroying chemical weapons at Army Pueblo Chemical Depot in Colorado for the Department of Defense. Sandy is a graduate from Johns Hopkins University with an MBA in International Business and an undergraduate degree in Economics.

**DR. RITA BARANWAL, DOE OFFICE OF NUCLEAR ENERGY, ASSISTANT SECRETARY**

Dr. Rita Baranwal serves as the Assistant Secretary for the Office of Nuclear Energy in the U.S. Department of Energy (DOE); she was nominated by the President and confirmed by the U.S. Senate to perform in this role. Dr. Baranwal leads the office’s efforts to promote research and development (R&D) on existing and advanced nuclear technologies that sustain the existing U.S. fleet of nuclear reactors, enable the deployment of advanced nuclear energy systems, and enhance the U.S.A.’s global commercial nuclear energy competitiveness.

Prior to her current role, Dr. Baranwal directed the Gateway for Accelerated Innovation in Nuclear (GAIN) initiative at Idaho National Laboratory. She was responsible for providing the nuclear industry and other stakeholders access to DOE’s state-of-the-art R&D expertise, capabilities, and infrastructure to achieve faster and cost-effective development, demonstration, and ultimate deployment of innovative nuclear energy technologies. Under her leadership, GAIN positively impacted over 120 companies.

Before joining the U.S. Department of Energy, Dr. Baranwal served as Director of Technology Development & Application at Westinghouse. There, she led the creation and development of game-changing technologies and managed characterization and hot cell laboratories. Her previous positions at Westinghouse included director of Core Engineering and manager of Materials and Fuel Rod Design. Prior to joining Westinghouse, she was a manager in Materials Technology at Bechtel Bettis, Inc. where she led and conducted R&D in advanced nuclear fuel materials for US Naval Reactors.

Dr. Baranwal is a Fellow of the American Nuclear Society. She has served on Advisory Boards for MIT’s Materials Research Laboratory and UC Berkeley’s Nuclear Engineering Department, and also was adjunct faculty at University of South Carolina’s nuclear engineering graduate program. Dr. Baranwal is a past Chairman of the Executive Committee of the American Nuclear Society’s (ANS) Materials Science and Technology Division. She has also served on the Boards of Big Brothers Big Sisters-Pittsburgh and North Hills Community Outreach.
Dr. Baranwal has a bachelor's degree from Massachusetts Institute of Technology in materials science and engineering and a master's degree and Ph.D. in the same discipline from the University of Michigan.

**DR. KATY HUFF, UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN, ASSISTANT PROFESSOR, DEPARTMENT OF NUCLEAR, PLASMA, AND RADIOLOGICAL ENGINEERING**

Dr. Kathryn D. Huff is an Assistant Professor in the Department of Nuclear, Plasma, and Radiological Engineering at the University of Illinois at Urbana-Champaign where she leads the Advanced Reactors and Fuel Cycles Research Group. She is additionally 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 current research focuses on modeling and simulation of advanced nuclear reactors and fuel cycles. She is an active member of the American Nuclear Society, current Chair of the Nuclear Nonproliferation and Policy Division, a past chair of 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.

**DR. ANGELA DI FULVIO, UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN, ASSISTANT PROFESSOR, WIN FACULTY ADVISOR UIUC, DEPARTMENT OF NUCLEAR, PLASMA, AND RADIOLOGICAL ENGINEERING**

Angela Di Fulvio is an assistant professor in the Department of Nuclear, Plasma, and Radiological Engineering (NPRE) at the University of Illinois at Urbana-Champaign, director of the Neutron Measurement Laboratory, and a researcher in the technical aspects of nuclear safeguards and nonproliferation. Before joining NPRE, Angela was a research scientist at the University of Michigan where she worked on radiation detection within the framework or the Consortium for Verification Technology. Her current interests include the development of detection systems for safeguards and nonproliferation applications, and techniques and algorithms for the radiation protection of the patient in radiation therapy.

**DR. YI XIE, PURDUE UNIVERSITY, ASSISTANT PROFESSOR, WIN FACULTY ADVISOR PU, NUCLEAR ENGINEERING DEPARTMENT**

Dr. Yi Xie, assistant professor of Nuclear Engineering at Purdue. Dr. Xie received the B.S. from the University of Science and Technology of China and Ph.D degree from The Ohio State University, both in Nuclear Engineering. Before joining Purdue, she worked as a research scientist at Idaho National Laboratory, where she focused on advanced fuel fabrication, characterization, development, and examination. Before this, she was a postdoctoral associate at Virginia Tech and Idaho National Laboratory as the inaugural Glenn T. Seaborg Distinguished Postdoctoral Associate. Her current research interests include corrosion in extreme environments, advanced
nuclear fuel, sensor and sensor materials, advanced sintering technology, and geological repositories of radioactive waste.

**MS. SARAH LANG, PURDUE UNIVERSITY, GRADUATE STUDENT, NUCLEAR ENGINEERING DEPARTMENT**

Sarah Lang is a current graduate student in Nuclear Engineering at Purdue University. She graduated with her B.S. in Nuclear Engineering in May of 2019 from Purdue. She enjoys this field because it incorporates her interests in science, the environment, and design. After graduating, she hopes to continue her research in pulsed power, nuclear security, or Small Modular Reactors (SMRs). Sarah is a member of the Purdue Women in Nuclear Student Chapter.

**DR. KARA WEATHERMAN, PURDUE UNIVERSITY, ASSOCIATE HEAD FOR LEARNING, DEPARTMENT OF PHARMACY PRACTICE**

Kara Weatherman, is a clinical associate professor of pharmacy practice in the College of Pharmacy, with a primary focus in nuclear pharmacy education. She is a 1994 graduate of Purdue University’s College of Pharmacy and began working as a nuclear pharmacist with experience in both commercial and independent nuclear pharmacy facilities. In 2000, she returned to Purdue University as the Director of Nuclear Pharmacy Certificate Program, a postgraduate training program for pharmacists and technicians who are interested in pursuing Nuclear Regulatory Commission (NRC) required didactic training towards Authorized Nuclear Pharmacist (ANP) / Authorized User (AU) status. In 2005, she moved into a clinical faculty line and was promoted to associate professor in 2013. Dr Weatherman’s research focuses on areas of clinical nuclear pharmacy practice advancement and virtual and augmented reality training for safe handling of radioactive materials. She continues to serve as director of the Nuclear Pharmacy Certificate Program, as well as the clinical director for the Purdue University Nuclear Pharmacy Continuing Education Program, which is currently the only Board of Pharmaceutical Specialties approved provider for this type of education. She is also the Associate Department Head for teaching for the Department of Pharmacy Practice in the College of Pharmacy. Dr. Weatherman recently served as co-editor for the nuclear pharmacy textbook "Radiopharmaceuticals in Nuclear Pharmacy and Nuclear Medicine" which was published in April 2020. Dr Weatherman received her Board Certification in Nuclear Pharmacy in 1996, and was named a Fellow of the American Pharmacists Association in 2005.

**MS. CAROLINE COCHRAN, OKLO, INC., COO**

Caroline Cochran is the Co-Founder and Chief Operating Officer of Oklo Inc., a company developing advanced fission clean technology. Caroline has worked with energy technologies that span solar vehicles, natural gas, oil, and nuclear. She helped established a new technology commercialization/business development program at the University of Oklahoma which has now been operating for over a decade. She has been a founder in multiple organizations, and she was one of the youngest recipients of the University of Oklahoma Regent’s Alumni Award. Caroline is a former member of the Department of Energy Nuclear Energy Advisory Committee. Caroline received her S.M. in Nuclear Engineering from MIT, a B.A. in Economics, and a B.S. in Mechanical Engineering from the University of Oklahoma.
MS. EMMA REDFOOT, OKLO, INC., REACTOR ENGINEER

Emma Redfoot is a reactor engineer for Oklo, a startup focused on designing and building fission batteries to empower people while mitigating climate change. Emma has a BA in environmental studies from Lewis and Clark College and an MS in nuclear engineering from the University of Idaho. Growing up in Montana, the beautiful setting inspired Emma's passion for spending time in nature and sparked her concern for the environment. While in undergrad, Emma lived in Ecuador for 6 months and in Peru for 6 months. During this time, Emma observed how the local people were seeking opportunities for themselves and their families. This often meant moving to cities to find better jobs. This experience helped Emma to understand the interrelationship between energy and poverty. Energy allows communities to develop. After researching different energy sources, Emma concluded that nuclear needs to be a part of the clean energy mix.

MS. BONITA CHAN, OKLO, INC., DIRECTOR OF MARKETING AND EXTERNAL RELATIONS

Bonita Chan is the director of marketing and external relations at Oklo Inc., where she is responsible for marketing, media, communications, and external relations. Before joining Oklo, Bonita led the small modular reactor commercial program at the Canadian Nuclear Laboratories. Passionate about engagement, Bonita was the vice president of the Chalk River chapter- North American Young Generation of Nuclear, the chapter with her, and the president’s leadership won the 2019 Best Regional Chapter award.

MS. SUE H. ABREU, NRC, ASSOCIATE CHIEF ADMINISTRATIVE JUDGE

Sue H. Abreu, M.D., J.D., FACNM, is an engineer, nuclear medicine physician, and attorney. She currently is the Associate Chief Administrative Judge (technical) for the Atomic Safety and Licensing Board Panel at the U. S. Nuclear Regulatory Commission. Judge Abreu is a Purdue University interdisciplinary engineering graduate (biomedical engineering) and was a member of Purdue’s Army ROTC, Mortar Board, Tau Beta Pi, Sigma Gamma Tau, Omicron Delta Kappa, and Phi Kappa Phi. She continued her education at the Uniformed Services University of the Health Sciences (M.D.) and then specialized in nuclear medicine. A retired colonel, she served in multiple positions during her twenty-four-year United States Army career, including as the Nuclear Medicine Consultant to the Army Surgeon General. After her Army retirement, she worked as a medical and management consultant, with a focus on nuclear medicine accreditation and product development.

Dr. Abreu is a Fellow of the American College of Nuclear Medicine and was recognized with its Lifetime Achievement Award in 2011. Purdue University honored her as an Outstanding Interdisciplinary Engineer in 2001, inducted her into the Tri-Service ROTC Hall of Fame in 2004, and honored her as a Distinguished Engineering Alumna in 2020. Dr. Abreu has co-authored numerous medical publications and is often invited to speak at nuclear medicine conferences. She holds licenses in both medicine and law.
MS. MARIA KORSNICK, NEI, PRESIDENT AND CEO

Maria Korsnick is president and chief executive officer of the Nuclear Energy Institute, the nuclear industry’s policy organization in Washington, D.C. Drawing on her engineering background, hands-on experience in reactor operations and a deep knowledge of energy policy and regulatory issues, Korsnick aims to increase understanding of nuclear energy’s economic and environmental benefits among policymakers and the public.

Before joining NEI, she was senior vice president of Northeast Operations for Exelon, responsible for overseeing operation of the Calvert Cliffs 1 and 2, R.E. Ginna, and Nine Mile Point 1 and 2 nuclear power plants. Before Exelon, Korsnick served as chief nuclear officer (CNO) and acting chief executive officer at Constellation Energy Nuclear Group. She began her career at Constellation in 1986 and held positions of increasing responsibility, including engineer, operator, manager, site vice president, corporate vice president, and CNO.

Korsnick holds a bachelor’s degree in nuclear engineering from the University of Maryland and has held a Senior Reactor Operator license. She lives in Maryland with her husband and two children.

DR. ARDENT BEMENT, PURDUE UNIVERSITY, PROFESSOR EMERITUS, NUCLEAR ENGINEERING DEPARTMENT

Arden L. Bement, Jr. is Purdue University’s David A. Ross Professor of Nuclear Engineering Emeritus, Inaugural Director Emeritus of the Global Policy Research Institute, and Emeritus Chief Global Affair Officer. At Purdue University he also served as the Basil S. Turner Distinguished Professor of Engineering in the Schools of Materials Engineering and Electrical and Computer Engineering. Previously he was Professor of Nuclear Engineering and Materials Science and Engineering at MIT. His past government appointments include: Director of the National Science Foundation, Director of the National Institute of Standards and Technology, Member of the National Science Board, Deputy Under Secretary of Defense for Research and Advanced Technology, and Director of DARPA’s Office of Materials Science. In Industry he was Vice President of Science & Technology for TRW, Manager of the Fuels and Materials Department, Pacific Northwest Laboratory, and Senior Research Fellow for General Electric Hanford Atomic Products Operation. He has served on the Board of Visitors of the National Intelligence University and the Board of Trustees of the Skolkovo Institute of Science and Technology. He is a member of the National Academy of Engineering and the American Academy of Arts and Sciences. Among his awards are seven honorary doctorates in the U.S. and abroad, the civilian distinguished medal of honor from the U.S. Department of Defense, the order of the rising sun with gold and silver star from the Empire of Japan, the rank of Chevalier in the Legion of Honor from the Republic of France, and Chieftain of the Sagamores of the Wabash from the State of Indiana. Bement also served as Head of Nuclear Engineering at Purdue from 1998 to 2001.

DR. LEFTERI TSOUKALAS, PURDUE UNIVERSITY, PROFESSOR, NUCLEAR ENGINEERING DEPARTMENT

Professor Lefteri H. Tsoukalas holds a PhD from the University of Illinois at Urbana-Champaign (1989) and has considerable engineering experience in intelligent systems methods and
applications. He has served as head of the School of Nuclear Engineering at Purdue University from 2001 through 2006 and as Chairman of the US Nuclear Engineering Department Heads Organization (NEDHO). Dr. Tsoukalas has three decades of experience in intelligent systems with over 250 research publications in the area including a book titled "Fuzzy and Neural Approaches in Engineering" (John Wiley & Sons, New York, 1997). Dr Tsoukalas is honored by the Humboldt Prize, Germany’s highest honor for international scientists.

**MS. AMANDA LOVELESS, PURDUE UNIVERSITY, POST-DOCTORAL RESEARCH ASSISTANT, NUCLEAR ENGINEERING DEPARTMENT**

Amanda Loveless is a Post Doctoral Research Assistant at Purdue University in Nuclear Engineering and is part of the BioElectrics and ElectroPhysics (BEEP) lab group under Dr. Allen Garner. She received her B.S. in Nuclear Engineering in 2015, her M.S. in Nuclear Engineering in 2017, and her PhD in Nuclear Engineering in August 2020 after defending her dissertation entitled “Unified Electron Emission and Gas Breakdown Theory across Length, Pressure, and Frequency.” Of note, she received the 2020 Purdue College of Engineering (COE) Outstanding Graduate Research Award for the School of Nuclear Engineering. Additionally, she received a Directed Energy Professional Society fellowship from 2017-2020, a 2016-2017 IEEE Dielectric and Electrical Insulation Society (DEIS) Graduate Fellow, and was named the 2018 IEEE NPSS Igor Alexeff Outstanding Student in Plasma Science.

**MS. SUZANNE JAWOROWKSI, DOE OFFICE OF NUCLEAR ENERGY, SENIOR ADVISOR, POLICY AND COMMUNICATIONS**

In her role as Senior Advisor in the Office of Nuclear Energy, Suzanne serves as the political liaison between the Office of Nuclear Energy and the Secretary of Energy, as well as the White House. She provides political and strategic leadership to the office and manages outreach and educational efforts in the area of civil nuclear energy. Secretary Perry tasked Suzanne with his initiative to “Make Nuclear Cool Again” through a communications and education program about modern nuclear technology.

Suzanne is Chairman of the International Framework for Nuclear Energy Cooperation (IFNEC), a 65 Country Government to Government organization dedicated to safety, security, and the peaceful uses of civil nuclear power. She also serves as the U.S. representative and Vice Chairman for “C3E”, the Clean Energy, Education, and Empowerment initiative of the Clean Energy Ministerial.

Prior to her role with the U.S. Department of Energy, Suzanne served as the Indiana State Campaign Director for the Trump-Pence campaign. Before running the Indiana Presidential campaign, she was the Communications and Government Affairs Director for Sunrise Coal, a division of Hallador Energy Company. In 2016, Suzanne ran for Indiana State Senate, and for nearly 15 years she ran a successful marketing and communications business with many energy industry, technology, and economic development clients.

Suzanne has been married to her husband Steve for nearly 30 years, they have four children and live in Fishers, Indiana.
MEET OUR MODERATORS

MS. LIZ BRAMER, PURDUE UNIVERSITY, NUCLEAR ENGINEERING DEPARTMENT, WIN STUDENT CHAPTER PRESIDENT

Liz Bramer is a junior at Purdue University majoring in Nuclear Engineering with a minor in Engineering and Public Policy. She is originally from Hanover, Indiana near the site of what would have been Marble Hill, one of two planned nuclear power plant sites in Indiana. With interests in policy and waste management, she originally was headed into nuclear policy. But after a year working as a co-op student at Energy Harbor’s Perry Nuclear Power Plant Reactor Engineering Unit, she has decided to take some time in industry before lobbying full time for the nuclear sector. On campus, she works for the Office of Future Engineers as a Peer Counselor for prospective students, is a Teaching Assistant and a Student Ambassador for the Nuclear Engineering Department, and involved in Women in Nuclear and is a national member of the American Nuclear Society. She will graduate in May of 2022 with her Bachelor’s in Nuclear Engineering, a minor in Engineering and Public Policy, and a certificate for the Industry Co-Op Program.

MS. ISABELLE LINDSAY, PURDUE UNIVERSITY, NUCLEAR ENGINEERING DEPARTMENT, WIN STUDENT CHAPTER VICE PRESIDENT

Isabelle Lindsay is a senior at Purdue University majoring in Nuclear Engineering with a minor in Law and Society. She is from Freeport, Pennsylvania, about 30 miles north of Pittsburgh. With original interests in pursuing law school with a technical background, she now has interests in nuclear materials and the development Gen IV reactors. She will be pursuing a Master of Science in Engineering degree immediately following her undergraduate degree. This past summer, she was an intern at Exelon Generation in the BWR Cycle Management Group within the fuels department. Here, she was exposed to core design methodology, thermal limits and other design considerations, and process development. Her internship experience solidified her interest in working with fuels and has since joined a research group as an Undergraduate Research Assistant that focuses on nuclear materials. On campus, she served two years as a Resident Assistant and has been promoted to the role of Residence Education Assistant. She is also the vice president of the student chapter of Women in Nuclear, a Nuclear Engineering Student Ambassador, and a national member of the American Nuclear Society. She will graduate in May of 2021 with her Bachelor’s in Nuclear Engineering and a minor in Law and Society.

MS. MADISON GREEN, PURDUE UNIVERSITY, NUCLEAR ENGINEERING DEPARTMENT, WIN STUDENT CHAPTER TREASURER

Madison Green is a junior at Purdue University majoring in Nuclear Engineering with a minor in Political Science. She is from Dallas, Texas and is interested in nuclear policy, security, and reactor engineering. She chose to study nuclear engineering after a year of consideration in Purdue’s First Year Engineering program. This summer, Madison worked a virtual internship with Exelon Cantera in their Boiling Water Reactor Core Design and Methods Group where
she was first exposed to core design and the nuclear power industry. After graduation, she is undecided on her next steps and will either be pursuing her master’s degree or working in the nuclear industry. On campus, she is a Nuclear Engineering Student Ambassador and a Teaching Assistant for the Nuclear Engineering Department, she is involved with both Women in Nuclear and the American Nuclear Society. She has been involved with undergraduate research in nuclear detectors and nuclear materials and the Women in Engineering outreach program for incoming freshmen. Madison will be graduating in May of 2022 with a Bachelor’s in Nuclear Engineering and a minor in Political Science.

**MS. SOPHIA SHICK, PURDUE UNIVERSITY, NUCLEAR ENGINEERING DEPARTMENT, WIN STUDENT CHAPTER SECRETARY**

Sophia Shick is a junior at Purdue University majoring in Nuclear Engineering with a minor in Global Engineering Studies. She is from Ortonville, Michigan, and has interests in all areas of the nuclear sector, Sophia has dedicated time to undergraduate research, as well as a variety of clubs and organizations on campus. Specifically, Sophia has worked with Dr. Allen Garner and Amanda Loveless on theoretical gas breakdown for the past 3 semesters. She is a member of multiple Purdue student chapters including Women in Nuclear, American Nuclear Society, Society of Women Engineers, and Institute of Nuclear Materials Management. She is also a student in the Global Engineering Alliance for Research and Education, an international work experience program which integrates language study, study abroad, and domestic and international work experience. She will graduate in May of 2022 with her Bachelor’s in Nuclear Engineering and a minor in Global Engineering Studies.