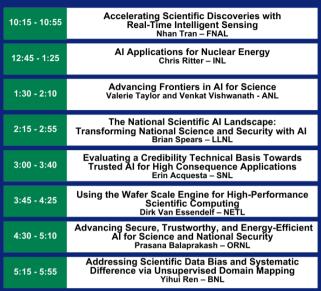
EVENT SCHEDULE

Al For National Competitiveness Expo

May 7th

Speakers:



May 8th

Speakers:

12:00 - 12:40	High-Performance Computing Energy Efficiency Wes Brewer and Woong Shin – ORNL
12:45 - 1:25	Al-Driven Breakthroughs in Energy Systems from Vision to Design Justin Weber – NETL
1:30 - 2:10	Re-imagining the Search for Fundamental Interactions with Al Ben Nachman - LBNL
2:15 - 2:55	Exascale Computing, Al, and Achieving the Floating Offshore Wind Energy EarthShot Mike Sprague – NREL
3:00 - 3:40	Foundation Al Models for Biosecurity Research Bin Hu – LANL
3:45 - 4:25	Research at the Frontiers of Al for Science, Security, and Technology Court Corley – PNNL
4:30 - 5:10	Al for Scientific Discovery, Synthesis, and Manufacturing Jamie Morris – AMES
5:15 - 5:55	Using Al to Improve Infrastructure Permitting and Environmental Reviews Keith Benes – DOE Office of Policy

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Demos:

10:00 - 2:00	Sidekick System: A Self-Driving Laboratory Development Environment Abhik Sarkar – LLNL
2:00 - 3:00	Generative Al to Improve Environmental Review and Permitting Outcomes and Efficiency Robert Rallo - PNNL
3:00 - 4:00	HydraGNN: A Scalable Graph Neural Network Architecture for Accelerated Material Discovery and Design Max Lupo Pasini – ORNL
4:00 - 5:00	Scaling Large Language Models to Understand Protein-Protein Interactions Valerie Taylor and Venkat Vishwanath - ANL
5:00 - 6:00	Al and Microelectronics in Extreme Environments Javier Campos – FNAL

Virtual Reality - May 7th and 8th:

12:00 - 6:00	JARVIS: Interacting with LLMs in Virtual Reality Danny Gomez – SNL
12:00 - 6:00	A Collaborative Environment for Analysis of Digital Twins in Additive Manufacturing Haichao Miao - LLNL

Demos:

10:00 - 1:00	Sidekick System: A Self-Driving Laboratory Development Environment Abhik Sarkar – LLNL
1:00 - 2:00	Interconnected Science Ecosystem (INTERSECT) for Scientific Workflows that Connect Al/ML, M&S, and Experimental Instruments Ben Mintz – ORNL
2:00 - 3:00	Energy Data eXchange® (EDX): A Data Curation and Collaboration Test Bed for Carbon Management R&D Kelly Rose – NETL
3:00 - 4:00	Quantum Many Body Physics using Al Valerie Taylor and Venkat Vishwanath - ANL
3:00 - 4:00 4:00 - 5:00	Quantum Many Body Physics using Al Valerie Taylor and Venkat Vishwanath - ANL Try to Fool the Al System: Machine Assisted Anomaly Detection System (MAADS) Anthony Garland and Kevin Potter – SNL

Catch DOE speakers at the Expo:

5/7 10:00-10:30am, Room 202B

5/7 10:30am-12pm, Room 202B 5/7 12:30-12:45pm ,Center Stage

Achieving Fusion Ignition: How the U.S. National Labs Power the Next Generation of Advanced Technologies; Dr. Kim Budil, Director of Lawrence Livermore National Laboratory
Fusion Energy: Unlocking the Path Forward; Scott Hsu, DOE Lead Fusion Coordinator
Advancing New Frontiers: How the DOE is Driving AI for Science, Energy, and Security;
David Turk, DOE Deputy Secretary
The Future of Advanced Research, Dr. Evelyn Wang, Director of ARPA-E
Shooting for the Stars: Unleashing American Innovation through USG Moonshot Missions;
Dr. Geri Richmond, DOE Under Secretary for Science and Innovation

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