U.S. DEPARTMENT of ENERGY | Genesis Mission

ai+expo

2026 SPEAKER SCHEDULE

NOTE: All talks are 30 minutes long, including time for questions.

THURSDAY, MAY 7

10:15 a.m.	AI Roadmap for Faster & Cheaper Nuclear Cleanup	Thomas Danielson, SRNL
11:00 a.m.	Models Consortium: Building Transformational AI Models for Science	Court Corley, PNNL
12:00 p.m.	Genesis Mission's Models Consortium and the American Science Cloud	Inder Monga, LBL
1:45 p.m.	AI for Autonomous Nuclear Energy: Next-Gen Reactors	Chris Ritter, INL
2:30 p.m.	Federated LLMs for Secure NNSA National Security Data	Siva Rajamanickam, SNL
3:15 p.m.	Agentic AI for Analog Circuit Design	Yihui Ren, BNL

FRIDAY, MAY 8

10:00 a.m.	AI Co-Pilots for Molecular & Materials Discovery	Brian Van Essen, LLNL
10:45 a.m.	A Common Framework for Scalable Autonomous Science AI	Kyle Chard, ANL
11:30 a.m.	Turning Data Overload into Scientific Breakthroughs	Ryan Coffee, SLAC
12:15 p.m.	Smarter Particle Accelerators & Nuclear Physics	David Lawrence & Kishan Rajput, JLAB
1:00 p.m.	Open-Source AI Agents for Scientific Automation	Arthur Lui, LANL
2:45 p.m.	Driving Fusion Commercialization with AI and Advanced Computing	Shantenu Jha, PPPL
3:45 p.m.	The American Science Cloud: A Unified AI Platform	Arjun Shankar, ORNL

SATURDAY, MAY 9

10:15 a.m.	Accelerating Particle Physics, Quantum & Microelectronics	George Fleming, FNAL
12:15 p.m.	AI for Critical Mineral Recovery: Designing Advanced Materials	Ratul Chowdhury, Ames
1:00 p.m.	Securing Energy, Unlocking Data, & Boosting Computing	Kelly Rose, NETL
1:45 p.m.	Innovations in AI for Energy & Materials	Ray Grout, NLR

AMES National Laboratory · Argonne National Laboratory · Brookhaven National Laboratory · Fermilab · Jefferson Lab · INL Idaho National Laboratory · Berkeley Lab · Lawrence Livermore National Laboratory · Los Alamos National Laboratory · National Laboratory of the Rockies · National Energy Technology Laboratory · Oak Ridge National Laboratory · Pacific Northwest National Laboratory · PPPL · Sandia National Laboratories · Savannah River National Laboratory · SLAC

2026 DEMO SCHEDULE

THURSDAY, MAY 7

10:45 a.m.	Driving Fusion Commercialization with AI and Advanced Computing	Shantenu Jha, PPPL
11:15 a.m.	Autonomous Botanists: Vision & Robotics in Action	Rafael Ferreira da Silva, ORNL
11:45 a.m.	AI-Driven Design: Optimizing Products with Natural Language Prompts	Nathan Brown, SNL
12:00 p.m.	AI for Faster, Cheaper Nuclear Energy Deployment	Peter Suyderhoud, INL
1:30 p.m.	Unifying AI Models & Workflows on a Cloud Platform	Monte Lunacek, NLR
2:00 p.m.	AI for Scientists: Tools & Best Practices to Double Research Productivity	Neil Getty, ANL
2:30 p.m.	AI for Sustainable Critical Materials from Waste	Zachary Tener, SRNL
3:00 p.m.	AI-Powered Inspection: Qualifying Additive Manufactured Components	Vincent Dinova, SRNL
3:30 p.m.	Generative AI for Science, Energy, & Security	Tom Grimes, PNNL
4:00 p.m.	AI for Faster Knowledge Extraction from Scientific Data	Alex Hexemer, LBL

FRIDAY, MAY 8

10:00 a.m.	Seeing the Unseen: AI Decodes Quantum Materials	YQ Cheng, ORNL
10:30 a.m.	AI Digital Twins: Real-Time Optimization for Mineral Processing	Dylan Wald, NLR
10:45 a.m.	AI Innovations for Particle Accelerators	Hayden Hoschouer, FNAL
11:15 a.m.	AI for Extreme Environment Electronics	Ben Hawks, FNAL
11:45 a.m.	Multi-Agent Design for Faster Scientific Discovery	Brian Van Essen, LLNL
12:00 p.m.	Immersive AI: Function-Calling LLMs in Virtual Reality	Samantha Brozak, SNL
12:30 p.m.	AI for Automated Design, CAD & 3D Printing	Anthony Garland, SNL
1:15 p.m.	Generative AI for Science, Energy, & Security	Tom Grimes, PNNL
1:30 p.m.	Open-Source AI Agents for Scientific Automation	Arthur Lui, LANL
2:45 p.m.	AlphaFold-Inspired AI: Predicting Flaws in Microelectronics	Henry Chan, ANL
3:15 p.m.	AI for Energy Security: Automated Modeling & Threat Analysis	Jordan Henry, NLR
3:45 p.m.	Agentic AI for Quantum Physics	George Fleming, FNAL

SATURDAY, MAY 9

10:00 a.m.	Using AI for Anomaly Detection in Power Plants	Mohammad Abdo, INL
10:15 a.m.	AI for Fusion: Real-time Control & Design for Inertial Systems	Derek Mariscal, LLNL
12:00 p.m.	Autonomous Nuclear Reactors: AI for Safer, Cheaper Operations	Jieun Lee, INL
12:30 p.m.	A Multi-Agent System for Scientific Discovery	Meifeng Lin, BNL
1:00 p.m.	Inference-as-a-Service for Physics Data Analysis	Xiangyang Ju, LBL
1:30 p.m.	National Subsurface Data Atlas & Safeguarding Energy Infrastructure	Kelly Rose, NETL
2:00 p.m.	AI Agents for Autonomous Manufacturing Experiments	Stephen DeWitt, ORNL