

2025 **DEMO SCHEDULE**





11:00 AM	RHAAPsody	y: Al-Enabled Automation of Materials Synthesis
1110071111	Dan Schreiber	(PNNL)

Al-Driven CAD Defeaturing & Idealization for Simulation Setup 11:45 AM Steve Owen (SNL)

Ascribe Virtual Reality: Al for Immersive Browsing 1:00 PM Helen Cademartori and Ana Kupresanin (LBL)

Inertial Fusion Capsule Design Assistant 2:00 PM Charles Jekel (LLNL)

Scaling LLMs to Understand Protein - Protein Interactions Shilpika (ANL) 3:15 PM

Red Teaming AI: Tools for AI Vulnerability Assessment 10:00 AM Amir Sadovnik (ORNL)

Semantic Search for Issue Tracking with Particle Accelerators 11:15 AM Hayden Hoschouer (Fermilab)

Al-Based Structural Design of Peptides for Metal Binding 12:15 PM Ratul Chowdhury (AMES)

Scaling LLMs to Understand Protein - Protein Interactions 1:15 PM Shilpika (ANL)

ACCORD: A Chemistry Catalysis Al Agent 2:15 PM Robert Rallo (PNNL)

Deploying Biomedical RAG Pipelines on Frontier 3:15 PM Veronica Melesse Vergarra (ORNL)

Ascribe Virtual Reality: Al for Immersive Browsing 4:15 PM Helen Cademartori and Ana Kupresanin (LBL)

Scaling LLMs to Understand Protein - Protein Interactions 10:00 AM Shilpika (ANL)

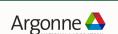
Al and Quantum: Building A Mutually Beneficial Relationship 11:00 AM Prasanna Date and Kathleen Hamilton (ORNL)

CelloAl: LLM-based Code Assistant

12:00 PM Mohammad Atif (BNL)

Leveraging GenAl to Automate CAD Modeling and Meshing 12:30 PM Nathan Brown (Sandia)

Graph Foundation Models for Atomistic Materials Science 2:30 PM Max Lupo Passini (ORNL)

















June 4

June 3























SPEAKER SCHEDULE





10:30 AM	Al-Based Design of Peptides for Recovery of Critical Metals Ratul Chowdhury (AMES)	
11:15 AM	Building Foundation Models for Nuclear and Particle Physics Yihui (Ray) Ren (BNL)	
12:15 PM	Al for Translational Science: From Lab to Market Hilary Egan (NREL)	
1:00 PM	Accelerating High Energy Science with Al George Fleming (Fermilab)	
2:45 PM	Enhancing User Facility Science through Automation and ML Mary Scott (LBL)	
3:30 PM	Al for Fusion Shantenu Jha (PPPL)	
4:15 PM	Al for Monitoring Complex Environmental & Physical Systems Thomas Danielson (SRNL)	

June 3



AuroraGPT: Scaling AI for Scientific Discovery 10:45 AM Ian Foster (ANL) **Building Efficient Al-Driven Scientific Labs of the Future** 11:45 AM Ben Mintz and Prasanna Balaprakash (ORNL) ACCORD: Al Co-Scientist for Chemistry Catalysis Research 12:45 PM Robert Rallo (PNNL) Manufacturing's New Senses: Al and 3D Printing 1:45 PM Anthony Garland (SNL) Al-Driven Digital Engineering for Next-Gen Energy Systems Maria Eduarda Montezzo Coelho (INL) 2:45 PM Al for National Security 3:45 PM Mike Lang (LANL)



10:45 AM Exascale Distillation Workflows for Protein Structure Prediction Brian Van Essen and Nikoli Dryden (LLNL)

11:30 AM Exploring the Cosmic Frontier with Al Adam Bolton (SLAC)

12:15 PM Accelerating Critical Mineral Discovery through Al Kelly Rose (NETL)

12:45 PM Advancing Scientific Discovery at Jefferson Lab using Al Malachi Schram (JLAB)

2:30 PM Artificial Intelligence for Nuclear Energy Applications
Jason Hales (Office of Nuclear Energy)