



Agenda



2023 Predictive Science Academic Alliance Program (PSAAP) Forum

Meeting Attire: Business Casual

Embassy Suites Albuquerque
1000 Woodward Place NE, Albuquerque, NM 87102

Tuesday, June 6, 2023

7:30 am Registration

Welcome, Overview, and Updates

8:00 am	Welcome and Opening Remarks.....	Tim Germann
8:05 am	PSAAP III and Academic Programs Update.....	David Etim

Multi-Disciplinary Simulation Centers (MSC)

John Feddema, SNL

8:20 am	University of Texas – Austin	Robert Moser
	<i>Exascale Predictive Simulation of Inductively Coupled Plasma Torches</i>	
8:50 am	University of Illinois	Jonathan Freund
	<i>Center for Exascale-Enabled Scramjet Design</i>	
9:20 am	Stanford University	Gianluca Iaccarino
	<i>Integrated Simulation using Exascale Multiphysics Ensembles</i>	
9:50 am	University of Colorado.....	Richard Regueiro
	<i>Center for Micromorphic Multiphysics Porous and Particle Materials Simulation with Exascale Computing Workflows</i>	
10:20 am	Break	

Single-Disciplinary Simulation Centers (SDC)

Fernando Grinstein, LANL

- 10:45 am Massachusetts Institute of Technology Youssef Marzouk
CESMIX: Center for the Exascale Simulation of Material Interfaces in Extreme Environments
- 11:15 am University at Buffalo Paul DesJardin
Center for Exascale Simulation of Hybrid Rocket Motor

PSAAP Poster Session / Lunch

Tim Germann, LANL

- 11:45 am Poster Flash Presentations Poster Presenters
- 12:00 pm Lunch
- 12:45 pm Poster Session

Focused Investigatory Centers (FIC)

Judy Hill, LLNL

- 2:15 pm University of Maryland Johan Larsson
Solution-Verification, Grid-Adaption and Uncertainty Quantification for Chaotic Turbulent Flow Problems
- 2:30 pm University of New Mexico Patrick Bridges
Center for Understandable, Performant Exascale Communication Systems (CUP-ECS)
- 2:45 pm Oregon State University Dmitriy Anistratov
CEMeNT: Center for Exascale Monte Carlo Neutron Transport
- 3:00 pm Break

Parallel Breakout Sessions

- 3:30 pm Career Opportunities at the NNSA Labs Moderator: Abby Hunter
A panel of PSAAP II alumni who are now Lab staff will describe their career trajectory and engage in a Q&A session with interested Center students/postdocs
- 3:30 pm Future PSAAP Workshops Moderator: Tim Germann
Announcements and solicitation of interest and ideas for upcoming workshops organized around themes of common interest to multiple centers include ones on compressible multiphase flow (Nov 2023), exascale simulation technologies (Jan 2024?), and potentially scientific machine learning (late 2024?)
- 5:00 pm Adjourn