

Schedule

Monday, February 10, 2020:

Session & Chair	Time	Presentation
	8:00-8:30	Registration and Breakfast.
	8:30-9:00	NSF Program Managers and Organizers Welcome.
Session I. Chair: Professor Hessam Babaee, University of Pittsburgh	9:00-9:40	Professor Steven Brunton, University of Washington: Machine learning and sparse optimization for modeling, sensing, and controlling fluid dynamics
	9:40-10:20	Professor George Karniadakis, Brown University: Physics-informed neural networks (PINNs) in fluid mechanics and heat transfer
	10:20-10:40	Coffee Break.
Session II. Chair:	10:40-11:20	Professor Sharath Girimaji, Texas A&M University: Machine learning for turbulence modeling: A perspective
	11:20-12:00	Professor Weinan E, Princeton University: Machine learning for fluid dynamics
	12:00-13:30	Lunch.
Session III Chair:	13:30-14:10	Dr. Mujeeb Malik, NASA Langley Research Center:
	14:10-14:50	Professor Karen Willcox, University of Texas at Austin: Challenges and progress in learning physics-based reduced models for combustion processes
	14:50-15:30	Coffee Break.
Moderator:	15:30-17:00	Panel Discussion.
	17:00-18:30	Poster Session.

Schedule

Tuesday, February 11, 2020:

Session & Chair	Time	Presentation
	8:00-8:45	Registration and Breakfast.
	8:45-9:00	Introduction and Overview.
Session IV. Chair:	9:00-9:40	Professor Michael Brenner, Harvard University:
	9:40-10:20	Professor Gianluca Iaccarino, Stanford University:
	10:20-10:40	Coffee Break
Session V. Chair: Dr. Cosmin Safta. Sandia National Laboratories	10:40-11:20	Dr. Kevin Carlberg, Facebook:
	11:20-12:00	Professor Eric Shaqfeh, Stanford University:
	12:00-13:30	Lunch
Session VI. Chair:	13:30-14:10	Professor Linan Ren, Tsinghua University: Machine learning in turbulent reactive flow simulations
	14:10-14:50	Professor Justin Sirignano, University of Illinois at Urbana-Champaign: Deep learning closure models for large-eddy simulation
	14:50-15:30	Coffee Break.
Moderator:	15:30-17:00	Panel Discussion.
	17:00	Adjourn.