

# Schedule

**Monday, February 10, 2020:**

Session & Chair	Time	Presentation
	<b>8:00-8:30</b>	Registration and Breakfast.
	<b>8:30-9:00</b>	NSF Program Managers and Organizers Welcome.
Session I. Chair: Professor Hessam Babaee, University of Pittsburgh	<b>9:00-9:40</b>	Professor Steven Brunton, University of Washington: <a href="#">Introduction to data driven modeling and machine learning</a>
	<b>9:40-10:20</b>	Professor George Karniadakis, Brown University: <a href="#">Physics-informed neural networks (PINNs) in fluid mechanics and heat transfer</a>
	<b>10:20-10:40</b>	Coffee Break.
Session II. Chair: Professor Tony Rosato, New Jersey Institute of Technology	<b>10:40-11:20</b>	Professor Michael Mahoney, University of California, Berkeley: <a href="#">Machine learning and science?</a>
	<b>11:20-12:00</b>	Professor Sharath Girimaji, Texas A&M University: <a href="#">Machine learning for turbulence modeling: A perspective</a>
	<b>12:00-13:30</b>	Lunch.
Session III Chair: Dr. Ramakanth Munipalli, AFRL/RQRC	<b>13:30-14:10</b>	Professor Karen Willcox, University of Texas at Austin: <a href="#">Challenges and progress in learning physics-based reduced models for combustion processes</a>
	<b>14:10-14:50</b>	Professor Linan Ren, Tsinghua University: <a href="#">Machine learning in turbulent reactive flow simulations</a>
	<b>14:50-15:30</b>	Coffee Break.
Moderator: Professor Dimitrios Papavassiliou, University of Oklahoma	<b>15:30-17:00</b>	Panel Discussion.
	<b>17:00-18:30</b>	Poster Session.

# Schedule

**Tuesday, February 11, 2020:**

Session & Chair	Time	Presentation
	<b>8:00-8:45</b>	Registration and Breakfast.
	<b>8:45-9:00</b>	Introduction and Overview.
Session IV. Chair: Dr. Cosmin Safta, Sandia National Laboratories	<b>9:00-9:40</b>	Professor Michael Brenner, Harvard University: <a href="#">Machine learning for PDE's</a>
	<b>9:40-10:20</b>	Dr. Kevin Carlberg, University of Washington: <a href="#">Nonlinear model reduction: Using machine learning to enable rapid simulation of extreme-scale physics models</a>
	<b>10:20-10:40</b>	Coffee Break
Session V. Chair: Professor Alan McGaughey, Carnegie Mellon University	<b>10:40-11:20</b>	Dr. Mujeeb Malik, NASA Langley Research Center: <a href="#">CFD vision 2030 and potential for machine learning</a>
	<b>11:20-12:00</b>	Professor Justin Sirignano, University of Illinois at Urbana-Champaign: <a href="#">Deep learning closure models for large-eddy simulation</a>
	<b>12:00-13:30</b>	Lunch
Session VI. Chair: Professor Sangyeop Lee, University of Pittsburgh	<b>13:30-14:10</b>	Professor Gianluca Iaccarino, Stanford University: <a href="#">(Machine) Learning to differentiate</a>
	<b>14:10-14:50</b>	Professor Weinan E, Princeton University: <a href="#">Machine learning for fluid dynamics</a>
	<b>14:50-15:30</b>	Coffee Break.
Moderator: Professor D. Scott Stuart, University of Illinois at Urbana-Champaign	<b>15:30-17:00</b>	Panel Discussion.
	<b>17:00</b>	Adjourn.