

**2019 Applied Mathematics Principal Investigator Meeting
DOE Office of Advanced Scientific Computing Research (ASCR)**

<https://www.ornl.gov/ascr-appliedmath-pi2019>

Hilton Washington DC / Rockville Executive Meeting Center
1750 Rockville Pike, Rockville MD, 20852

	Tuesday, January 29, 2019	
Time	Event	Location
8:00 - 9:00am	Registration, Continental Breakfast Poster Setup	Plaza I & II Atrium
9:00 - 9:30am	Welcome & Announcements Co-Chairs: Tamara Kolda (SNL), Aydin Buluc (LBNL) Associate Director for ASCR: Barbara Helland Applied Math Program Manager: Steven Lee	Plaza I & II
9:30 - 10:45am	Overview of 2018 Basic Research Needs Workshops: Scientific Machine Learning - Nathan Baker (PNNL) Extreme Heterogeneity - Jeff Vetter (ORNL) Panel for Workshops Q&A: N. Baker, J. Hittinger (LLNL), J. Vetter, J. Shalf (LBNL)	Plaza I & II
10:45am	BREAK	
11:00 - 11:45am	“The Functions of Deep Learning” Gilbert Strang (MIT)	Plaza I & II
11:45 - 12:30pm	Project Blitz – Group A Todd Munson (ANL) & team	Plaza I & II
12:30 - 1:30pm	Working Lunch: “Mathematics of Data Science” Tamara Kolda (SNL)	Plaza III
1:30 - 2:15pm	Project Blitz – Group B Todd Munson (ANL) & team	Plaza I & II
2:15 - 3:00pm	Project Posters Session – Group A	Atrium
3:00 - 3:45pm	Project Posters Session – Group B	Atrium
3:45pm	BREAK	
4:00 - 5:15pm	Brainstorm I - Scientific Machine Learning Brainstorm II - Extreme Heterogeneity	Plaza I & II Plaza III
5:15pm	END OF DAY 1	

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	Wednesday, January 30, 2019	
Time	Event	Location
8:00 - 9:00am	Continental Breakfast	Plaza I & II
9:00 - 9:15am	Announcements Co-Chairs: Tamara Kolda (SNL), Aydin Buluc (LBNL)	Plaza I & II
9:15 - 10:00am	AEOLUS - Advances in Experimental Design, Optimal Control, and Learning for Uncertain Complex Systems Director: Omar Ghattas/Karen Willcox (UT Austin), with team	Plaza I & II
10:00 - 10:45am	PhILMs - Collaboratory on Mathematics and Physics-Informed Learning Machines for Multiscale and Multiphysics Problems Director: George Karniadakis (PNNL)	Plaza I & II
10:45am	BREAK	
11:00 - 11:45am	MACSER - Multifaceted Mathematics for Rare, High-Impact Events in Complex Energy & Environment Systems Director: Mihai Anitescu (ANL), by Emil Constantinescu	Plaza I & II
11:45 - 12:30pm	CAMERA - Center for Advanced Mathematics for Energy Research Applications Director: James Sethian (LBNL), with team	Plaza I & II
12:30 - 1:45pm	Working Lunch: “Julia: A Programming Language for Scientific Computing” Alan Edelman (MIT)	Plaza III
1:45 - 2:15pm	Project Posters Session - Continued	Atrium
2:15 - 2:30pm	BREAK	
2:30 - 3:15pm	“Jupyter - An Interactive Platform for Scientific Computing” Shreyas Cholia (LBNL); Fernando Perez (UC Berkeley)	Plaza I & II
3:15 - 3:30pm	Wrap-Up Steven Lee (ASCR Applied Math)	Plaza I & II
3:30pm	Big Thank You to ORISE Staff! Jody Crisp, Bruce Warford, and Deneise Terry ADJOURN	