Workshop on the Science of Scientific-Software Development and Use

Dec 13 - 15, 2021. 12pm - 5pm eastern.

Day 1 (Dec 13)

Time	Topic
12 - 12:15	Opening Remarks (Hal Finkel, ASCR)
12:15 - 12:45	Introduction and Logistics (Mike Heroux, SNL)
12:45 - 1:30	Keynote: Steve Plimpton - Sandia National Laboratories
1:30 - 2:00	Lightning Talks and Panel ● Abhinav Bhatele ● Jeff Candy ● Daniel Crawford ● Ewa Deelman ● Miranda Mundt ● Slaven Peles
2:00 - 2:30	Lightning Talks and Panel ● Andy Gallo ● Sandra Gesing ● Kyle Harrington ● Ignacio Laguna ● Spencer Smith ● Jana Thayer
2:30 - 3:00	Lightning Talks and Panel ● Prasanna Balaprakash ● Breck Baldwin ● Oceane Bel ● Caroline Jay ● Todd Ringler ● Elizabeth Sexton-Kennedy
3:00 - 3:15	Break
3:15 - 4:15	Breakouts - Challenges, Past Experience, and Open Questions

Time	Topic
	- Challenges in Developing Scientific Software - Challenges in Using Scientific Software - Challenges in Adoption of New Practices
4:15 - 5:00	Readouts / Summary

Day 2 (Dec 14)

Time	Topic
12 - 12:05	Opening Remarks and Logistics
12:05 - 12:50	Keynote: Ian Cosden - Princeton University
12:50 - 2:00	Lightning Talks and Panel - Christopher Lenhardt - Annika Meinecke - Boyanna Norris - Jordan Perr-Sauer - Elaine Raybourn - Phil Roth
2:00 - 2:05	Break
2:05 - 3:00	Breakouts - Methods - Observation and Surveys - Large-Scale Data Mining - Longevity of Best Practices - Learning from Other Domains
3:00 - 3:15	Break
3:15 - 4:15	Breakouts - Scale and Impact - Scale Required for Different Kinds of Studies - Potential Opportunities for using AI - Impact of Better Training and Practices on Productivity - Addressing Non-Technical Roadblocks to Studying Development and Use
4:15 - 5:00	Readouts / Summary

Day 3 (Dec 15)

Time	Topic
12 - 12:05	Opening Remarks and Logistics
12:05 - 12:50	Keynote: Hannah Cohoon – The University of Texas at Austin
12:50 - 2:00	Lightning Talks and Panel ● Ben Dudson ● Daniel S. Katz ● Mary Ann Leung ● Siva Rajamanickam ● Ben Sims ● Valeri Vasquez
2:00 - 2:05	Break
2:05 - 3:00	Breakouts - Priority Research Directions, Grand Challenges, and Transformational Opportunities ● Studying Scientific Software Development ● Studying Scientific Software Use ● Studying Pre-Development Processes
3:00 - 3:15	Break
3:15 - 4:15	Writing
4:15 - 5:00	Readouts / Summary