

Agenda

Tutorials

90' All Tutorials within a red or blue box happen contemporarily, except for Monday afternoon (see details below)
180'

Tue 2/6 **90'**
10:30 am – 12 pm

90'	#4
Application-driven Fault-Tolerance for High Performance Distributed Computing	
90'	#5
Asynchronous, data effects programming with DARMA	90'
#17	Introduction to Machine Learning
90'	#15
Introduction to ECP Agile Project Management Tools	

Wed 2/7 **90'**
10:30 am – 12 pm

90'	#2
Advanced Use Cases for ECP Agile Project Management Tools	
90'	#14
Graph and Combinatorial Methods for Enabling Scientific Applications	

Thu 2/8 **90'**
10:30 am – 12 pm

90'	#16
Introduction to Legion and Regent	
90'	#21
Introduction to the NVIDIA Visual Profiler	
90'	#26
RAPL, GEOPM and the future of power management and control	

Fri 2/9 **90'**
8:30 – 10 am

90'	#1
Accelerating Linear Algebra with MAGMA	
90'	#11
Exascale Code Optimization Tools	
90'	#13
Git It Together – Using Version Control for Scientific Collaboration	
90'	#23
Optimizing OpenMP in Hybrid Codes	

Mon 2/5
1:30 – 5 pm

90' **120'-180'**

90'	#20
Introduction to RAJA	
90'	#22
On-demand Learning for Better Scientific Software: How to Use Resources & Technology to Optimize your Productivity	
180'	#8
Container Computing for HPC and Scientific Workflows	
180'	#9
ECP Data Analytics & Viz Tools: Alpine & VTK-M	
120'	#12
Exascale Debugging & Correctness Testing Tools	
180'	#25
Python in HPC	
180'	#29
Using DOE Math Libraries: Introducing the xSDK	

Tue 2/6
1:30 – 5 pm

90' **180'**

90'	#3
Analyzing Memory Performance Using Caliper	
180'	#28
Using C++ for Scientific Programming	
90'	#18
Introduction to Modern Cmake	
180'	#31
What All Codes Should Do: Overview of Best Practices in HPC Software Development	

Wed 2/7
1:30 – 5 pm

180'

180'	#6
Charm++: extreme scaling with automatic load balancing, resilience and more	
180'	#27
Spack 101: Installing and packaging HPC software with Spack	
180'	#30
Using Kokkos	

Thu 2/8
1:30 – 5 pm

90' **180'**

90'	#19
Introduction to PaRSEC	
180'	#7
Compression for scientific data	
180'	#10
ECP Data Management Tools: ADIOS, HDF5, and DataLib	
180'	#24
Performance Tuning of Scientific Codes with the Roofline Model	