Wednesday, February 5, 2020

7:30 – 8:30 AM	**Working Breakfast** | Legends Ballroom Focus Area Updates: Software Technology	
8:30 – 9:45 AM	**Focus Area Meetings** (ECP Staff Only) Application Development | Founders Ballroom • Software Technology | Legends Ballroom	
9:45 – 10:00 AM	**Break** | Legends Pre-function Area	
10:00 – 10:30 AM	**Poster Session (Part I: Exploration)** | Discovery B Software Technology	
10:30 AM – 12:00 PM	**Tutorials – Track 1** 90 min **AD** ▪ ExaGraph: Graph and Combinatorial Methods for Enabling Exascale Applications | **Founders I** **ST** ▪ Accelerating Your Application I/O with UnifyFS | **Champions VII** ▪ Getting It Right with Open MPI - Best Practices for Deployment and Tuning of Open MPI | **Founders II** ▪ Using HPCToolkit to Measure and Analyze the Performance of GPU-Accelerated Applications | **Discovery A**	**BoFs/Breakouts/Panels – Track 1** 90 min ▪ ECP 201: Lessons Learned in Preparing Software Technology and Applications for Exascale Systems | **Champions V** **AD** ▪ Advances in Science and Engineering Enabled by ECP Applications (Part I) | **Founders IV** ▪ Best Practices for Using Proxy Apps as Benchmarks | **Champions III** **ST** ▪ Speed Dating for ECP: 1-on-1 Conversations between AD Teams and Math Library Developers | **Champions I & II** **HI** ▪ ECP Software Curation through Deployment | **Champions VI** ▪ Perlmutter - a Waypoint for ECP Teams | **Founders III** ▪ SYCL Programming Model for Aurora | **Legends Ballroom**
12:00 – 1:30 PM	**Working Lunch** | Legends Ballroom Plenary – Industry Imperative for Exascale	
1:30 – 2:30 PM	**Poster Session (Part II: Discussion)** | Discovery B Software Technology	

EXASCALE COMPUTING PROJECT

7:00 AM – 6:00 PM
Registration Desk
Legends Pre-function Area

7:00 AM – 10:00 PM
Side Meetings
ecpannualmeeting.com/collaborations.php

AGENDA

2:30 – 4:00 PM

Tutorials – Track 2 180 min

AD

- ExaLearn Tutorial: Co-Design Center for Exascale Machine Learning Technologies | **Founders IV**

ST

- A Tutorial Introduction to RAJA Performance Portability Abstractions | **Founders III**
- Container Computing for HPC and Scientific Workloads | **Champions I & II**
- Exascale I/O with ADIOS: Online Processing, in Situ Visualization and High-Performance Storage I/O | **Champions VII**
- OpenMP 4.5 and 5.0 Tutorial (Offload) | **Discovery A**
- Performance Tuning with the Roofline Model on GPUs and CPUs | **Champions V**

Tutorials – Track 3
90 min

HI

- Hands-on with Progress Tracking Cards: A Lightweight Method for Improving Your Software Practices | **Founders I**

BoFs/Breakouts/Panels – Track 2 60 min

ST

- Spack Roundtable | **Founders II**

HI

- ECP Continuous Integration Update | **Champions III**
- Hardware Evaluation for Understanding Network Requirements from Facilities and Software Teams | **Champions VI**
- Overview of the Argonne Aurora Exascale System | **Legends Ballroom**

4:00 – 4:30 PM

Poster Session (Part III: Collaboration) | Discovery B Software Technology

Break | Legends Pre-function Area

4:30 – 6:00 PM

Tutorials – Track 2 (Continued)

BoFs/Breakouts/Panels – Track 3 60 min

HI

- Aurora – Argonne's Exascale System **(NDA Session)** | **Legends Ballroom**
- ECP and Experimental Science | **Founders I**
- ECP SW Deployment Project Team Breakout | **Champions VI**
- OLCF ECP Application Engagement | **Founders II**
- System Software - Evaluation and Future for Pre-Exascale and Exascale Systems | **Champions III**