Exascale Computing Project Industry Council

May 23, 2019
Sandia National Laboratories

Meeting Agenda

Note that this agenda is designed to be highly interactive with discussion on each topic. More time can be spent on certain areas if discussion warrants.

Thursday, May 23, 2019

7:30 a.m.   **Bus from Marriott to Sandia**
Members who are not staying at the Guest House should meet in the lobby by 7:15. Sandia badges will be distributed prior to bus leaving.

8:00 a.m.   **Working Breakfast**
Host welcome, safety talk, agenda review, goals for the day.

Scott Collis
Director, Center for Computing Research
Sandia National Laboratories

David Martin
Co-Executive Director, ECP Industry Council

Suzy Tichenor
Co-Executive Director, ECP Industry Council

8:45 a.m.   ECP Federal Perspective

Dan Hoag
Federal Project Director, DOE Oak Ridge National Laboratory Site Office

9:00 a.m.   **ECP State-of-the-Project: Director's Update**
Update on DOE budget, and ECP milestones and timeline.

Doug Kothe
Director, Exascale Computing Project

9:45 a.m.   **Software Technology (ST) Focus Area Update**
Significant developments since February Quarterly Call /Outlook for next 6 months

Mike Heroux
Director, ECP Software Technology

10:15 p.m.   **Break/ECP Industry Council Group Photo**

10:45 a.m.   **Application Development (AD) Focus Area Update**
Significant developments since February Quarterly Call /Outlook for next 6 months

Andrew Siegel
Director, ECP Application Development

11:15 a.m.   **Hardware and Integration (HI) Focus Area Update**
 Significant developments since February Quarterly Call /Outlook for next 6 months

Terri Quinn
Director, ECP Hardware & Integration

11:45 p.m.   **ECP Project Management**

Monty Middlebrook
ECP Project Controls Manager

12:00 p.m.   **Break/Working Lunch**
Overview of Sandia National Laboratories and its industrial collaborations.

Grant Heffelfinger
Director, Research & Development, Science and Engineering
Sandia National Laboratories

1:00 p.m.   **Return-on-Investment for ECP**
- Why We Need It
- Our Audience
- How We Use It
- Methodology/How We Measure It

Doug Kothe
Director, Exascale Computing Project

EXASCALE COMPUTING PROJECT

1:30 p.m. **Industry Lightning Talks on HPC Return-on-Investment**
- Why Industry Needs It
- Company Audience
- How Companies Use It
- Methodology/How Companies Measure It

Mike Anderson
Executive Director
Global Virtual Design, Development & Validation
General Motors Company

Mark Meili
R&D Director, Modeling & Simulation
Procter & Gamble Company

Dave Kepczynski
Chief Information Officer, GE Research
General Electric

2:30 p.m. **Break**

2:45 p.m. **Industry Council Guidance to ECP Director about ECP ROI Methodology**
Questions to Consider:
- Are there commonalities among company methodologies and their use of ROI for their HPC Investments?
- Are there any methodologies and/or use cases from industry that ECP should consider?

Doug Kothe
Director, Exascale Computing Project

3:45 p.m. **Broader Industry Engagement**
- Progress on Industry Council testing ECP software
- Outreach to broader industry to test
- ECP Industry Council technical staff participation at 2020 ECP Annual Meeting

Dave Kepczynski
ECP Industry Council Chair

4:15 p.m.　　**Industry Council Roundtable Discussion on ECP Progress and Plans**

Dave Kepczynski
ECP Industry Council Chair

5:00 p.m.　　**Next Steps/Future Activities**

Dave Kepczynski
ECP Industry Council Chair

5:15 p.m.　　**Adjourn/Transport to The National Museum of Nuclear Science & History**

5:40 p.m.　　**Private Tour**
Short, guided tours/talks by Sandia S&T Center Directors about their work supporting Sandia's mission to ensure the U.S. nuclear arsenal is safe, secure, and reliable, and can fully support the nation's deterrence policy.

6:40 p.m.　　**Working Dinner**
Historical Perspectives of Sandia National Laboratories

Stephen Younger
Director
Sandia National Laboratories

Rebecca Ullrich
Corporate Historian
Sandia National Laboratories

8:45 p.m.　　**Bus Leaves for Marriott**
(time approximate)