DRAFT AGENDA

Hyatt Centric Chicago Magnificent Mile
633 N Saint Clair St.
Chicago, IL USA
April 15-16, 2020

Wednesday, April 15, 2020

8:00 a.m.  Registration and Hospitality

8:30 a.m.  Welcome

Robin Miles, HPC4Energy Innovation Director, Lawrence Livermore National Laboratory


9:00 a.m.  Motivating HPC: HPC Gets Down to Business

Fred Streitz, Chief Scientist, Artificial Intelligence and Technology Office, Department of Energy

9:20 a.m.  Motivating HPC in Product Design: The Gulfstream Story

Larry Patterson, Manager of High-Performance Computing, Gulfstream Aerospace (retired)

9:50 a.m.  Motivating HPC in Process Design: Applications at PPG

Phillip Yu, Director, Corporate Science & Technology and Operations, PPG Industries

10:20 a.m.  HPC for New Material Design: The Aluminum-Cerium Story

Vince Lordi, Senior Materials Development Scientist – Lawrence Livermore National Laboratory

10:50 a.m.  Break
Wednesday, April 15, 2020 – Continued

11:05 a.m.  Communicating HPC Return on Investment (ROI) to Decision-Makers

Joerg Gablonsky, Chair, Enterprise High-Performance Computing Council and Associate Technical Fellow - Boeing

Richard Arthur, Senior Principal Engineer and Director - Advanced Computing, General Electric

12:00 p.m.  Working Lunch

1:00 p.m.  Impact of the HPC4EI Program for Companies and National Energy Usage

Session Chair: Aaron Fisher (LLNL)

UTRC: Dr. Tahany El-Wardany
GM: Dr. Andy Wang
ArcelorMittal: Dr. Tathagata Bhattacharya
Dow Chemical: Dr. Kurt Koppi

1:40 p.m.  HPC at Small Mid-sized and Resource-Constrained Companies

Session Chair: Suzy Tichenor (ORNL)

7AC: Dr. Peter Luttik
Harper International: Dr. Prasad Apte
APPTI: David Turpin, Executive Director

2:20 p.m.  Beyond the Hype: Machine Learning in Real Applications

Session Chair: Peter Nugent (LBNL)

Vitro Glass: Dr. Jim McCamy
SPP: CEO Sal DellaVilla

3:00 p.m.  Future Directions in DOE Computing

John Shalf, Department Head for Computer Science, Lawrence Berkeley National Laboratory

Vic Castillo, Senior Staff Engineer, Lawrence Livermore National Laboratory

3:45 p.m.  Break

4:00 p.m.  Break Out Session – How is HPC4 Successful? How could it be Improved?

Break out group discussion for an hour. Wrap up discussion as a whole group for an hour.

5:30 p.m.  Reception and Poster Session

7:30 p.m.  Adjourn Day 1
Thursday, April 16, 2019

8:15 a.m.     Arrival and Hospitality

8:30 a.m.     HPC as a Part of Company Culture
               Tom Lange, CEO Technology Optimization & Management
               Mohamad El-Zein, Manager, Metals and Mechanics, John Deere (retired)

9:30 a.m.     Gaps in High Performance Computing
               Keith Gray, Director of Technical Computing, BP

9:50 a.m.     Status of HPC on the Cloud
               Session Chair: John Turner (ORNL)
               Peter Bradley, Fellow, High Performance Computing, Pratt and Whitney
               Barry Bolding, Amazon Cloud Services
               Tim Carroll, Microsoft Azure

10:50 a.m.    Wrap-up: Closing the Gap between Needs and Resources*

11:30 a.m.    Working Lunch

12:00 p.m.    Tour of ANL Supercomputing Facility
               Must sign up during registration and through the ANL site badging portal in advance for laboratory site entry.

Note: People interested in attending the afternoon session of the Material and Manufacturing Innovation Summit could depart for ANL at around 11:00 a.m.