



Introduction

NERSC Users Group Annual Meeting 2019

Rockville, MD
July 19, 2019

Richard Gerber

NERSC Senior Science Advisor
High Performance Computing Department Head

NERSC Users Group Annual Meeting 2019



Goals and Objectives

- **Communicate** what NERSC is doing to enable science at scale for Office of Science research
- **Engage** so NERSC can even more productively help you conduct your research
- **Build** a community of NERSC users for the benefit of users, NERSC, Office of Science
- **Define** NUG and NUGEX's role

Thank you to SciDAC PI Meeting Organizers!

Randall Laviolette
Ceren Susut



Agenda

8:30	NERSC Directors Perspective	Sudip Dosanjh, NERSC Director
9:00	Application Readiness, Performance, & Portability for Perlmutter	Jack Deslippe, Application Performance Lead
9:30	DOE Update: The View from Germantown	Ben Brown, DOE ASCR Facilities Director
10:00	Data Science, Superfacility, & AI	Debbie Bard, Data Science Engagement
10:30	BREAK	
10:45	Operational Results: Allocations & usage, metrics, user survey	R. Gerber, T. Declerck, R. Hartman-Baker
11:30	Reinventing NUG: Opportunities and Challenges	Alicia Clum, LBNL; Balint Joo, Jefferson Lab
12:00	Working Lunch: IRIS, NERSC's New IM, Accounting and Identity Management Portal	Cory Snavelly, Infrastructure Services Group



Agenda

13:00	The role of NUG in Educating Policy Makers and the Role of HPC and NERSC in Advancing DOE Mission Science	Don Medley, Berkeley Lab Head of Government and Community Relations
13:20	Jupyter: Redefining the user interface to HPC	Rollin Thomas, NERSC Big Data Architect
13:40	Performance Portability and Programming Models for C++ codes	Balint Joo, JLAB
14:00	Ab initio calculations of the energy levels atomic nuclei up to 16O	Pieter Maris, Iowa State University
14:20	Projecting the Future of Life on Earth: Challenges in Earth System Modeling and Analysis	Forrest Hoffman, ORNL
14:40	Lessons Learned Migrating JGI Data Science Workloads to the Cori Supercomputer	Bill Arndt, NERSC
15:00	JGI Data Services at NERSC	Alicia Clum, Berkeley Lab
15:20	BREAK	
15:45	Q&A with NERSC, DOE, and NUGEX; Open Discussion	

Questions and Assistance

Deneise Terry

deneise.Terry@orau.org

Richard Gerber

ragerber@lbl.gov

Any NERSC staff

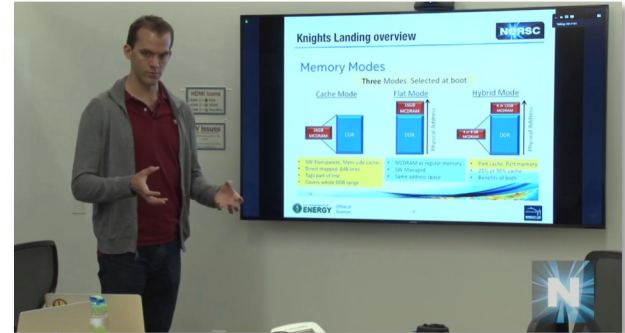
Co-Locating
with SciDAC PI
in D.C. Area is
an experiment.

Let us know
what you think.

NERSC Training Offerings

Recent Events

- VASP User Hands-on KNL Training: June 18, 2019
- New User Training: June 21, 2019
- GPUs for Science Day, July 2-3
- July 2019 GPU Hackathon, July 15-19
- SpinUp: July 2019
- Petascale Computing Institute, August 19-23, 2019
- ECP/NERSC OpenMP Hackathon, August 2019



<https://www.nersc.gov/users/training/events/>