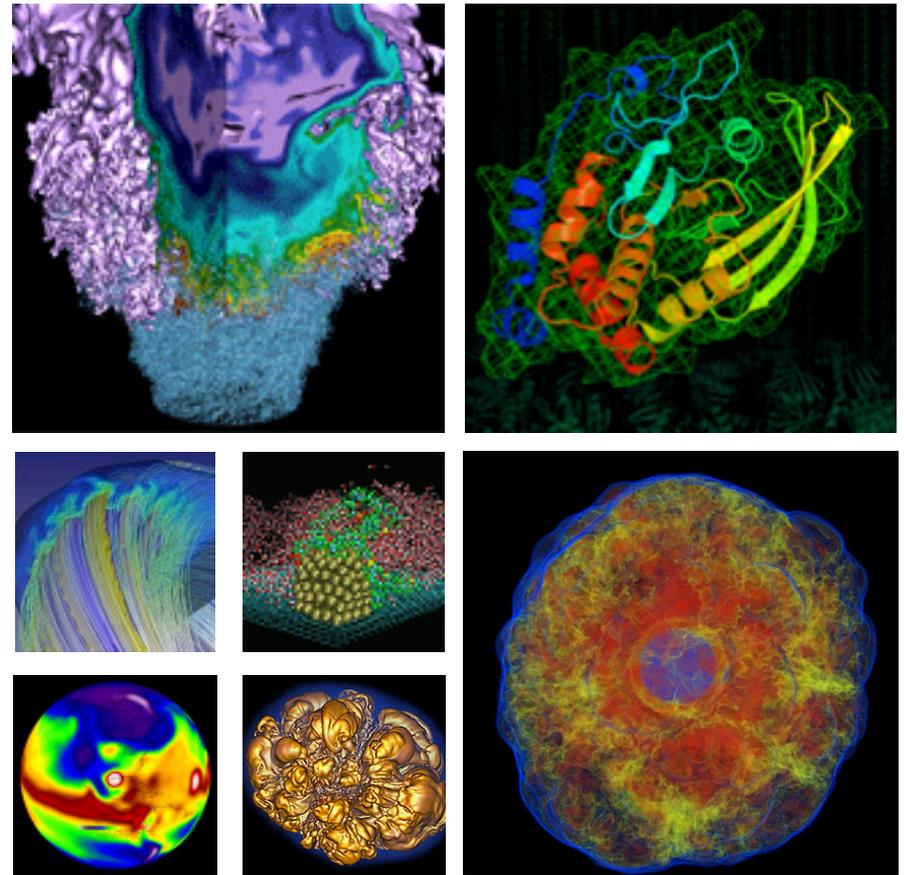# Introduction to Score-P and Scalasca Performance Tools Training

**Woo-Sun Yang**
**NERSC User Engagement Group**

July 26, 2016

# Introduction

- **Code performance tool suite developed at Juelich Supercomputing Centre**
- **Instructors**
  - Christian Feld, Juelich Supercomputing Centre, Germany
  - David Boehme, Lawrence Livermore National Laboratory
- **Presentation slides available from**
  - http://www.nersc.gov/users/training/events/scorep-and-scalasca/
- **Example codes in /project/projectdirs/training/2016/VI_HPS**
  - Instructions will be provided
- **Use Cori Phase 1**
  - Latest versions installed on Cori Phase 1 and Edison
- **For in-person participants**
  - Wireless network: lbnl-visitor
  - 4th floor elevator lobby of Building 59 will be closed in PM – use the stairs at either end of the building or the elevator in the north side

# Agenda

| Time (PDT) | Topic | Presenter |
|---|---|---|
| 09:00 | Welcome | Yang |
| 09:10 | Introduction to VI-HPS & overview of tools | Feld |
| | Introduction to parallel performance engineering | |
| | Building and running NPB-MZ-MPI/BT-MZ on Cori | |
| | Instrumentation & measurement with Score-P | |
| 11:00 | *Coffee Break* | |
| 11:15 | Profile analysis report exploration with Cube | Boehme |
| | Configuring & customizing Score-P measurements | Feld |
| | Automated trace analysis with Scalasca | Boehme |
| 13:00 | *Lunch (provided)* | |
| 14:00 | Hands-on coaching | |
| | *Coffee Break (in the midst of the hands-on)* | |

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