Welcome to the BoF on Software Engineering and Reuse in Modeling, Simulation, and Data Analytics for Science and Engineering

BoF series website permalink: http://bit.ly/swe-cse-bof

Discussion notes: https://bit.ly/swe-cse-notes

Please remember to evaluate this BoF via the conference website

Organizers

Name	Affiliation	
David E. Bernholdt	Oak Ridge National Laboratory	
Anshu Dubey	Argonne National Laboratory	
Nasir Eisty	Boise State University	
William F. Godoy	Oak Ridge National Laboratory	
Mozhgan Kabiri chimeh	NVIDIA	
Spencer Smith	McMaster University	
Marion Weinzierl	Ourham University	















Motivation and Goals

- CSE software developers already facing scientific demands for "bigger, better, and faster" modeling and simulation capabilities, entailing larger, more multidisciplinary and geographically dispersed development teams, must now also contend with significant architectural changes. Further, increases in data volume and complexity, and the increasing integration of "big data" (analytics) infrastructures (both hardware and software) raise additional SWE challenges.
- Our goal is to bring together people concerned about this topic to share existing activities, discuss how we can expand and improve on them, and share the results, complementing "traditional" venues for the academic (often versus practical) discussion of SWE for CSE, such as conferences and workshops.

Agenda

3 min

3 min

3 min

3 min

3 min

56 min

5 min

INTERSECT Research Software Engineering Training

Cultural Barriers to HPC Software Development

General Discussions (https://bit.ly/swe-cse-notes)

MOOSE - Continuous Integration, In-Code Documentation and

Creating (or not creating) portable tests

Automation for Research Software

I'm not an RSE but I'm a believer

Wrap-Up and Next Steps

Time	Title	Speaker/ Moderator	Affiliation
5 min	Introduction and Goals	David E. Bernholdt	Oak Ridge National Laboratory
3 min	Growing The Cactus Computational Toolkit Community	Stephen R. Brandt	Louisiana State University
3 min	Hackathons	Mozhgan Kabiri chimeh	NVIDIA
3 min	Using code or ideas	Tobias Weinzierl	Durham University

Ian A. Cosden

Charles Ferenbaugh

David E. Bernholdt

David E. Bernholdt

Kevin Gott

Oana Marin

Blake Joyce

Princeton University

Los Alamos National Laboratory

University of Alabama Birmingham

Oak Ridge National Laboratory

Oak Ridge National Laboratory

Idaho National Laboratory

NERSC