SC18 Birds of a Feather on

Software Engineering and Reuse in Computational Science and Engineering

Organizers					
David Bernholdt	Oak Ridge National Laboratory	William Gropp	University of Illinois	Scott Lathrop	National Center for Supercomputing Applications, University of Illinois Shodor Education Foundation
Jeffrey Carver	University of Alabama	Michael Heroux	Sandia National Laboratories, St. John's University		
Carina Haupt	German Aerospace Center	Daniel S. Katz	University of Illinois	Minhua Wen	Shanghai Jiao Tong University

BOF web site: http://bit.ly/swe-cse-bof   **Mailing list signup:** https://swe-cse-bof.groups.io/

SC18 evaluation survey: http://bit.ly/sc18-eval   **Discussion notes:** http://bit.ly/sc18-bof-notes

Motivation and Goals

- Software developers, researchers, trainers, and outreach staff will meet to **raise awareness of the challenges and opportunities for developing and promoting software engineering practices, including the development of <u>reusable</u> software** to enhance the computational science and engineering ecosystem for HPC systems to accelerate the "time to science".

- The BoF attendees will help **develop an international "community of practice"** to share experiences in developing quality software, gathering community feedback, addressing interoperability, and promoting software to applications developers and users.

- We will identify strategies for ongoing efforts to inform, engage, and benefit the community and thereby advance the HPC software ecosystem.

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Agenda

Time	Topic	Speaker/Moderator
3 min	BOF Introduction	David E. Bernholdt
18 min	Lightning Talks (6)	various
59 min	General Discussion	Daniel S. Katz, audience
10 min	Wrap-Up and Next Steps	Daniel S. Katz, audience

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Lightning Talks

	Topic	Speaker	Affiliation
1	Promoting Research Software: Call to Action	Catherine Jones	Science and Technology Research Council
2	Conceptualizing a US Research Software Sustainability Institute (URSSI)	Daniel S. Katz	University of Illinois at Urbana-Champaign
3	HPC Carpentry: open source, hands-on HPC training	Andy Turner	EPCC, The University of Edinburgh
4	Building an Open Platform for Sustaining Data Science Innovation	Andy R. Terrell	NumFOCUS
5	An RSE from UK	Mozghan Kabiri Chimeh	University of Sheffield
6	Update: Better Scientific Software (bssw.io)	David E. Bernholdt	Oak Ridge National Laboratory

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