



**Scientific Software and the People Who Make it Happen: Building Communities of Practice**

BOF website: <http://bit.ly/swe-cse-bof>

# Motivation and Goals

- ❑ Software has become central to all aspects of modern science and technology.
- ❑ It powers our modeling, simulation, data analytics, and more, especially in HPC and CSE computing (HPC)
- ❑ Pace of change and diversity of platform architectures exacerbates the situation
- ❑ Teams need to be more technically diverse and likely more geographically distributed.
  - ❑ Research software engineers (RSEs), an emerging role within the scientific software space, are part of such teams.
- ❑ We seek to
  - ❑ raise awareness of software engineering for scientific software on supercomputers as a major challenge
  - ❑ recognize and support the people behind the software, such as RSEs, and to bring together and extend an international “community of practice” to continue these important discussions outside of workshops and other “traditional” venues.

# Organizers

Anshu Dubey	Argonne National Laboratory
Claire Wyatt	Juelich Supercomputing Centre
Mozhgan Kabiri Chimeh	NVIDIA
Marion Weinzierl	Durham University
David E. Bernholdt	Oak Ridge National Laboratory
Gregory Watson	Oak Ridge National Laboratory

# Agenda

Time	Title	Speaker/Moderator	Affiliation
5 min	<a href="#">Introduction and Goals</a>	Anshu Dubey	Argonne National Laboratory
	<b>Lightning Talks</b>	Claire Wyatt	Juelich Supercomputing Centre
3 min	<a href="#">RSE Strategy</a>	Jeremy Cohen	Imperial College London
3 min	<a href="#">Hardware and Enabling Software ExCALIBUR benchmarking effort</a>	Tom Deakin	Bristol University
3 min	<a href="#">The Emerging DOE Software Sustainability Initiative</a>	Anshu Dubey	Argonne National Laboratory
3 min	<a href="#">Understanding and Nurturing an Integrated Vision for Education in RSE and HPC (UNIVERSE-HPC)</a>	Weronika Fillinger	EPCC
40 min	<b>General Discussion</b>	Anshu Dubey	Argonne National Laboratory
3 min	<b>Wrap-Up and Next Steps</b>	Anshu Dubey	Argonne National Laboratory

# Important Links

- BOF website: <http://bit.ly/swe-cse-bof>
- Discussion notes: <https://bit.ly/isc2023-bof-notes>
- Please remember to give feedback on ISC website!