

Sessions and Topics

- Session 1: OpenMP Introduction (May 6)
- Session 2: Tasking (Jun 10)
- Session 3: Optimization for NUMA and SIMD (Jul 8)
- Session 4: What Could Possibly Go Wrong Using OpenMP (Aug 5, guest session from Ruud van der Pas)
- Session 5: Introduction to Offloading with OpenMP (Sept 4)
- Session 6: Advanced OpenMP Offloading Topics (Oct 7)
- Session 7: Selected / Remaining Topics (Oct 28)

Links to slides, exercises, recordings of Session 1 available at https://www.nersc.gov/openmp-training-series-may-oct-2024/







Introduction of Speakers

- Both Michael Klemm and Christian Terboven
 - OpenMP Language Committee members
 - Among a group of experts who regularly give technical talks and tutorials on OpenMP, at SC, ISC, IWOMP, and other HPC centers, etc.
- Dr. Christian Terboven
 - Leads HPC group at RWTH Aachen University as a senior scientist
 - Co-chair of OpenMP Affinity Subcommittee
 - Co-author of book "Using OpenMP The Next Step", published by MIT Press
- Dr. Michael Klemm
 - Principal Technical staff in the Compilers, Languages, Runtimes & Tools team of Machine Learning & Software Engineering group at AMD
 - CEO of the OpenMP Architecture Review Board
 - Lead author of book "High Performance Parallel Runtimes: Design and Implementation"







Some Logistics

- Users are muted upon joining Zoom due to large number of attendees
- Please change your name in Zoom session as "first_name last_name (nersc user name)", such as "Helen He (yunhe)"
 - Click "Participants", then "More" next to your name to rename
- You can click the CC button to toggle captions and view full transcript
- Trainings are recorded. Feel free to unmute and ask questions
 - If prefer not to record your voice, please type questions in Slack
- Slides have been uploaded. Recording to be available in a few days
 - https://www.nersc.gov/openmp-training-series-may-oct-2024/
- Please join <u>OpenMP-series-2024 Slack</u>
 - #general: Q&A and discussions
 - #perlmutter-accounts: training accounts issues
- Please take our <u>survey</u> to help us improve!







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As NERSC collaborators, we are all bound by the Code of Conduct:

Team Science
Service
Trust
Innovation
Respect

We agree to work together professionally and productively towards our shared goals while respecting each other's differences and ideas.



We should all feel free to speak up to maintain this environment and remember there are resources available to **report violations** to foster an inclusive, collaborative environment.

Email nersc-training@lbl.gov for any concerns

https://www.nersc.gov/nersc-code-of-conduct or search "NERSC Code of Conduct"





