

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 previous sessions available at https://www.nersc.gov/openmp-training-series-may-oct-2024/

GitHub repo: https://github.com/NERSC/openmp-series-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 on <u>GitHub</u>. Links to recording will be at: 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!





