







PRACE Course: OpenMP Programming Workshop

ONLINE | 17 – 19 February 2021

PRACE Training





SURF SARA





PARTNERSHIP FOR ADVANCED COMPUTING IN EUROPE

LRZ as part of the Gauss Centre for Supercomputing (GCS) belongs to the 14 **PRACE Training Centres** that started in 2012-2017-2020:

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CSC







Mission: Serve as European hubs and key drivers of advanced high-quality training for researchers working in the computational sciences.

http://www.training.prace-ri.eu/

Presenters





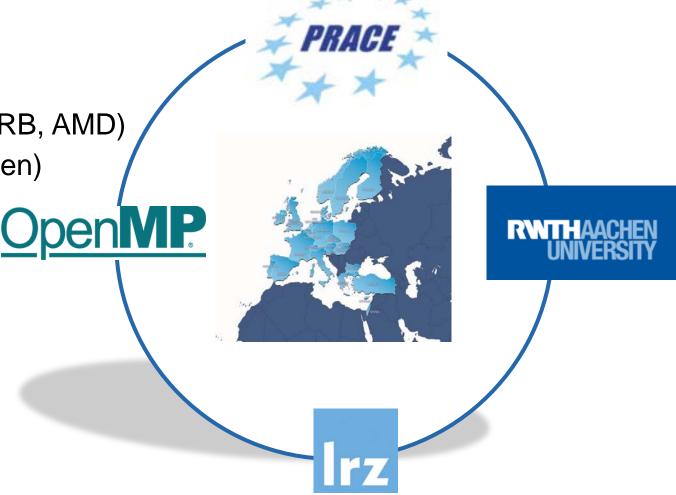




• Presenters:

• Dr.-Ing. Michael Klemm (OpenMP ARB, AMD)

• Dr. Christian Terboven (RWTH Aachen)



Tentative Schedule









	Day 1	Day 2	Day 3
09:00-10:30 CET		Tasking 1 ■ Tasking Intro ■ Lab 1	OpenMP for Compute Accelerators
10:45-12:15 CET		Tasking 2 Taskloop Dependencies Cancellation Lab 2	VI-HPS Tools for Performance VI-HPS Tools for Correctness
13:00-14:45 CET	Introduction to OpenMP	Vectorisation Lab 3	Misc. OpenMP 5.0 Features DOACROSS Loops
15:00-16:00 CET	Hands-on: Introduction to OpenMP	Memory Access Task Affinity Memory Management Lab 4	Roadmap / Outlook Open Discussion OpenMP 5.0 and beyond End: approx. 16:30 CET

Workshop Webpage





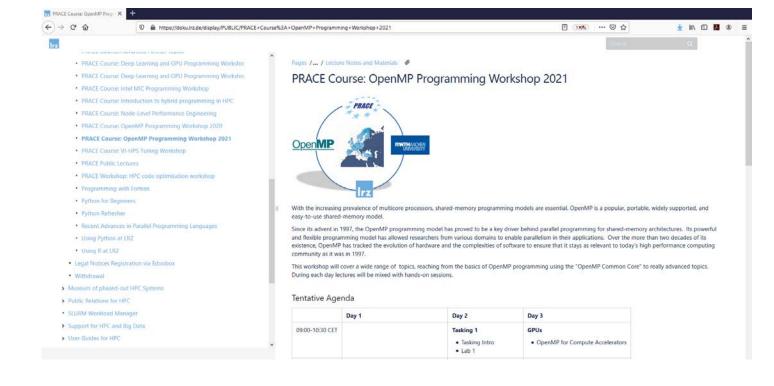




- All slides and exercises will be made available under:
- https://tinyurl.com/omp-workshop



- Further information on:
 - Agenda
 - Slides
 - Exercises



General Information









- ZOOM help centre has great resources with help articles and videos for getting started: https://support.zoom.us/hc/en-us.
- You may log in via the app or a browser. We recommend downloading the latest version of the app via https://zoom.us/download for the best experience.
- You can participate in the workshop without a ZOOM account. You may sign up for a free account at zoom.us/signup.
- Join Zoom Meeting (same link for all 3 days) https://us02web.zoom.us/j/84550049120?pwd=c2tWdDJCQ2VkNUpHOFVqVnRpUE00Zz09
- Meeting ID: 845 5004 9120
- Passcode: 221019
- If you have problems with your computer audio, you can also join by phone:
- Find your local number: https://us02web.zoom.us/u/kftHQl7q6

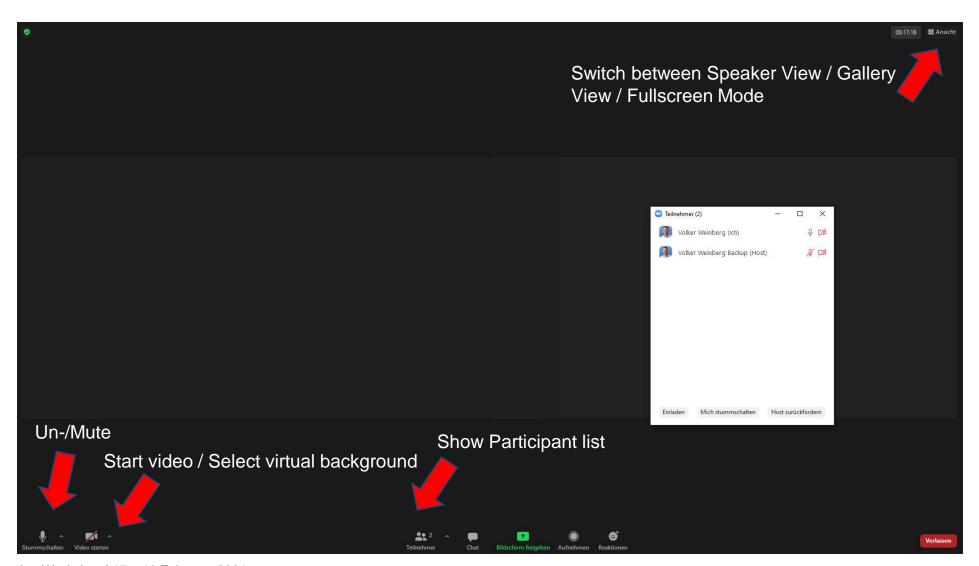














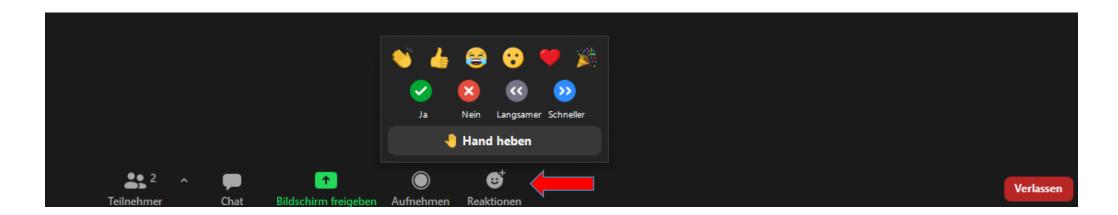








- Raise hand or use chat window to ask questions.
- If you do not mind, please **show your video when asking questions** to make this session as interactive as possible.
- **Push to Talk:** The Push to Talk feature allows you to remain muted throughout your Zoom meeting and hold down the spacebar when you want to be unmuted and talk.
- Instant Feedback:



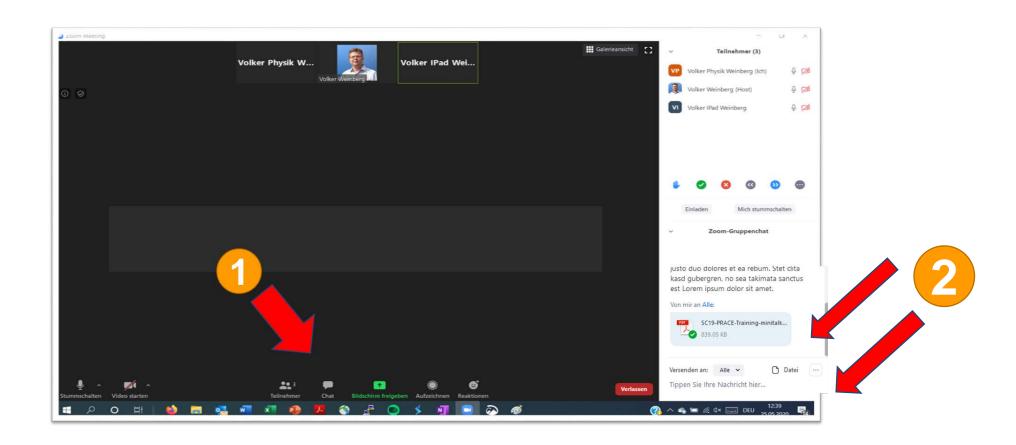
















Enjoy the workshop!