

# CHiMaD Phase Field Methods XI

CHiMaD Workshop Series

## FINAL AGENDA

April 26, April 27, May 3, May 4 2021 (Virtual)

Connection Link distributed via email

Central Daylight Time  
(UTC-5:00)

### MONDAY April 26, 2021 (Moderator: Olle Heinonen, Argonne National Lab)

- 10.00 AM - 10.15 AM — Welcome & Introduction  
*Olle Heinonen, Argonne National Laboratory*
- 10.15 AM - 10.55 AM — Selected Highlights of Accelerated Microstructure Design Using the High Performance Materials Simulation Framework Pace3D  
*Britta Nestler, Karlsruhe Institute of Technology*
- 10.55 AM - 11.15 AM — Discussion
- 11.15 AM - 11.55 AM — Concurrently Modeling Multiple Length Scales by Coupling the Phase-Field Method to Spatially-resolved Cluster Dynamics  
*Mike Tonks, University of Florida*
- 11.55 AM - 12.15 PM — Discussion

### TUESDAY April 27, 2021 (Moderator: Wenkun Wu, Argonne National Lab)

- 10.00 AM - 10.40 AM — Influence of Solid-Solid Anisotropy and Solute Diffusivity Contrast on Three-phase Growth Patterns in Ternary Eutectics  
*Abhik Choudhury, Indian Institute of Science - Bangalore*
- 10.40 AM - 11.00 AM — Discussion
- 11.00 AM - 11.40 AM — Modeling Rapid Solidification Kinetics Quantitatively Using Phase-Field Models  
*Nikolas Provatas, McGill University*
- 11.40 AM - 12.00 PM — Discussion

### MONDAY May 3, 2021 (Moderator: Jon Guyer, NIST)

- 10.00 AM - 10.40 AM — Experiences of Using Firedrake/FEniCS for Development of Phase-Field Solvers  
*Ivan Yashchuk, Aalto University*
- 10.40 AM - 11.00 AM — Discussion
- 11.00 AM - 11.40 AM — Phase Field Modeling with COMSOL Multiphysics  
*Alex Guo, COMSOL*
- 11.40 AM - 12.00 PM — Discussion

### TUESDAY May 4, 2021 (Moderator: James Warren, NIST)

- 09.00 AM - 10.00 AM — Poster Session & Social (on Gather.Town)
- 10.00 AM - 10.40 AM — Preparing for Exascale Phase-Field Modeling: Phase-Field Modeling in ExaAM and AEOLUS  
*Steve DeWitt, Oak Ridge National Laboratory*
- 10.40 AM - 11.00 AM — Discussion
- 11.00 AM - — Discussions/Updates: PFHub Update (Daniel Wheeler, NIST), Future Directions, Community Actions, Next workshop