

CHiMaD Phase Field Methods XIII

CHiMaD Workshop Series

REGISTER

May 10 - 12, 2022 | Virtual via zoom

Organizers

Jon Guyer (NIST) . James Warren (NIST) . Peter Voorhees (NU) . Begum Gulsoy (NU)

May 10, 2022 - Afternoon	
2:00PM	Welcome - Goals of the Workshop & Current Status: Benchmark Problems Jon Guyer (NIST)
2:15PM	Phase Field Best Practices (cont. discussion from PFXII) Mike Tonks (University of Florida) Discussion Points: <ul style="list-style-type: none">- Collective writing of best practices and/or drafting of champions- How do we best utilize PFHub as a resource for best practices
3:30PM*	Adjourn

May 11, 2022 - Morning	
10:00AM	SymPhas: Symbolic Algebra for Phase Field Simulations Steven Silber (Western University, Canada)
11:00AM	Practical Demonstration of Migrating Phase Field Codes to GPUs Jin Zhang (Northwestern)
12:00PM	Virtual Break
May 11, 2022 - Afternoon	
2:30PM	FAIR Data Principles for Phase Field Trevor Keller (NIST)
3:30PM	PFHub reimplementation for FAIR data collection Daniel Wheeler (NIST)
4:30PM*	Adjourn

May 12, 2022 - Morning	
9:00AM	Status of tweaks to the existing benchmarks Jon Guyer (NIST)
10:00AM	Wrap-up Discussion & Future Actions and Directions PF Community
11:00AM*	Adjourn

*Open-ended discussions