

NSF EPSCoR Research Infrastructure Improvement (RII) Award 2020 CIMM RII Symposium

July 20, 2020

Zoom

<https://zoom.us/j/93057653101>

Agenda

8:00 – 8:15	Overview of the EPSCoR RII project (Michael Khonsari)
8:15 – 8:30	Jeanne Small, Director, Office of Integrative Activities, NSF

8:30 – 10:30	Session 1: Project Progress Report Session Chair: Philip Sprunger*
8:30 – 8:50	Overview of CIMM research – STT1 (Wenjin Meng)
8:50 – 9:10	Overview of CIMM research – STT2 (Shengmin Guo)
9:10 – 9:25	Current status in the development of the CIMM Core User Facilities (CUF) (Dimitris Nikitopoulos/Leland Weiss)
9:25 – 9:35	CIMM Industry Partnerships (Greg Trahan/Dimitris Nikitopoulos)
9:35 – 10:00	CIMM WFDD efforts (Guoqiang Li/Patrick Mensah/Kristen Williams)
10:00 – 10:20	External Evaluation Report (Cindi Dunn)
10:20 – 10:30	Graduate Student Virtual Retreat Report (Hamed Ghadimi / Mohammadsaber Nemati / Congyuan Zeng)
10:30 – 10:45	Break

***Presentation times include 5 min for Q&A**

10:45 – 11:30	Session 2: STT1 Technical Presentations* Session Chair: Wen J. Meng
10:45 – 11:00	Collin Wick (LaTech): DFT Studies of metal/ceramic interfaces and the development of modified embedded atom potentials
11:00 – 11:15	Bin Zhang (LSU): Geometrical size and grain size effects in microscale molding of copper
11:15 – 11:30	Wenjin Meng (LSU): Toward understanding mechanical scaling anomaly with quantitative EBSD data analysis
11:30 – 11:45	Arden Moore (LaTech): Subcooled pool boiling performance of as-rolled and nanostructure-modified 1D micro-fin arrays fabricated by high throughput roll molding

***Presentation times include 5 min for Q&A**

11:45 – 12:15	Lunch break
12:15 – 2:00	Poster presentations (judged by ERB)

2:00 – 3:30	Session 3: STT2 Technical Presentations* Session Chair: Shengmin Guo
2:00 – 2:15	Jonathan Raush (ULL): Advanced Materials Characterization of High-Performance Alloys for Additive Manufacturing in Aerospace Applications
2:15 – 2:30	Dorel Moldovan (LSU): Atomistic simulation studies of interface kinetics during rapid solidification of Ti-Ni alloys
2:30 – 2:45	Dentcho Genov (LaTech): Thermo-Optical Modeling of Selective Laser Melting Processes in Dense Metal Powder
2:45 – 3:00	Patrick Mensah/Fareed Dawan (SU): Study of Effect of Additive Manufacturing Process Parameters on Thermo-mechanical Properties: SLM of Metal Alloys and DLP of Polymer

***Presentation times include 5 min for Q&A**

3:00 – 3:15	Break	NSF Office Hours with Dr. Small (Main Zoom room)	
3:15 – 4:00	Discussions of ERB, IAB, and DAC (Separate breakout rooms)		
4:00 – 4:15	Feedback from the ERB, IAB, DAC, and poster awards		
4:15 – 4:30	Concluding Remarks (Michael Khonsari)		