NSF EPSCoR Research Infrastructure Improvement (RII) Award

The 4th CIMM Technical Conference

March 15, 2019

Frank Walk Room, Engineering Annex, LSU Campus Baton Rouge, Louisiana 70802

Agenda

	7,601,00
7:00 – 8:00	Registration
8:00 – 8:15	Welcoming Remarks (Michael Khonsari)
Multiscale met	al forming and pattern replication (STT1): Chair: Wen J. Meng
8:15 – 8:30	Xiaoman Zhang (LSU), Microscale mechanical testing of ceramic/metal interfaces and growth of epitaxial ceramic and ceramic/metal thin films
8:30 - 8:35	Q&A
8:35 – 8:50	Bin Zhang (LSU), Feature interaction in pattern replication by molding and (attempts to) measure stiction/friction in microscale metal forming
8:50 - 8:55	Q&A
8:55 – 9:10	Shuai Shao (LSU), Continuum/grain level finite element simulations and Molecular Dynamics simulations of energetics and mechanical response of terraced interfaces
9:10 – 9:15	Q&A
9:15 – 9:30 9:30 – 9:35	Collin Wick (LaTech), Computational engineering of metal/ceramic interfaces Q&A
9:35 – 9:50 9:50 – 9:55	Arden Moore (LaTech), Scalable surface engineering and manufacturing for two-phase immersion cooling applications Q&A
9:55 – 10:10	Break
Laser based metal 3D printing (STT2): Chair: Shengmin Guo	
10:10 – 10:25 10:25 – 10:30	Louis Haber (LSU), Ultrafast Microscopy and Reflectivity of Laser Heating and Melting Dynamics Q&A
10:30 – 10:45 10:45 – 10:50	Ali Hemmasian Ettefagh (LSU), Corrosion behavior of additively manufactured parts made from Ti64 and SS316 Q&A
10:50 - 11:05 11:05 - 11:10	Uttam K Chakravarty (UNO), A Comparative Study Between Selective Laser Melting and Electron Beam Additive Manufacturing based On Melt Pool Dynamics Q&A
11:10 – 11:25 11:25 – 11:30	Congyuan Zeng, Bin Zhang, and Hao Wen (LSU), Thermal and Mechanical Properties of Cu-10Sn Alloy Prepared by Selective Laser Melting Q&A
11:30 - 11:45 11:45 - 11:50	Yaser Banadaki (SUBR), Enabling smart additive manufacturing using machine learning algorithm Q&A

11:50 – 1:00	Lunch –Students & postdocs should get together and start planning the Summer Retreat Leaders: Ka Ming Tam (LSU), Maddie Kumara (LaTech), Shafiqur Rahman (UNO)
1:00 – 1:30	Lunch speaker: Mark Cantrell, Lockheed Martin, Friction Stir Welding
Project Elements: Chair: Ramu Ramachandran	
1:30 – 2:30	2018 Seed Grant Awardees Presentations: (15 min each + 5 min Q&A)
	 Andrew Peters (LaTech) - Nanoscale Arrangement of Metal Nanoparticles via Grafted Block Copolymers for Improved Manufacturing Materials
	 Gabriela Petculescu (ULL) - Ultrasonic-based characterization and model validation of 3D- printed metals
	 Amanda Reusch (Tulane) - Nanoparticle Inoculants in Aluminum Alloy Powder Feedstocks for Laser-Based 3D Printing (Seed grant PI: Brian Mitchell)
2:30 – 2:50	Heather Lavender, Project Elements update
2:50 – 3:00	Leland Weiss or Dimitris Nikitopoulos, Update on CUF
3:00 – 3:15	Break
3:15 – 3:45	Year 4 milestones and deliverables, RSV and Site Visit recommendations, and
	Process for assembling Y4 report: Wen J Meng, Shengmin Guo, Heather Lavender
3:45 – 3:55	CIMM Sustainability, report on IUCRC effort - Mike Khonsari, Greg Trahan
3:55 – 4:00	Concluding remarks: Michael Khonsari

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