



Final Agenda: CANFSA Spring IAB Meeting, April 3-5, 2019
Iowa State University, Ames, IA

Wednesday, April 3, 2019

- 12:30 PM Welcome, Attendee Introductions, Agenda Changes
- 12:45 PM Overview and Status of CANFSA
- 1:00 PM NSF/IUCRC Updates and Review of LIFE Form Process – D. Meyer
www.iucrc.com, “Advanced NonFerrous Struct. Alloys (CANFSA)”
Password: ames2019
- 1:30 PM Project 29-L: B. Milligan, Identification of Deformation Mechanisms in Thermally Stable Cast Al-Cu Alloys Via Neutron Diffraction (Mines)
- 2:00 PM Project 22: J. Jankowski, Development of Novel High Temperature Aluminum Alloys (Mines)
- 2:30 PM Project 30-L: C. Johnson, Microstructural Evolution of Metallic Alloys During Rapid Solidification (Mines)
- 3:00 PM Break (15 min)
- 3:15 PM Project 31-L: B. McBride, Accumulative Roll Bonding of Al And Ti Sheets Toward Low Temperature Superplasticity (Mines)
- 3:45 PM Project 34: B. McArthur, In-Situ Observation of Phase and Texture Evolution Preceding Abnormal Grain Growth in Ni-Based Aerospace Alloys (Mines)
- 4:15 PM Guest: T. Copland-Johnson, Characterization of Oxidation Layers on Accident Tolerant Nuclear Fuel Cladding Alloys (ISU)
- 4:45 PM LIFE Form Review Session
- 5:15 PM Adjourn
- 5:30 PM Social (drinks and hors d’oeuvres), Reiman Gardens, Speer Room

Thursday, April 3, 2019

- 8:00 AM Welcome and Agenda Changes (Continental breakfast)
- 8:05 AM New Project Discussion
- 9:30 AM Project 33a-L: B. Ellyson, In-Situ Studies of Strain Rate Effects on Phase Transformations and Microstructural Evolution in Beta-Titanium Alloys (Mines)

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- 10:00 AM Project 33b-L: J. Copley, In-Situ Studies of Strain Rate Effects on Phase Transformations and Microstructural Evolution in Multi-Principal Element Alloys (Mines)
- 10:30 AM Break (15 min)
- 10:45 AM Postdoc-L: Y. Guo, Electron Microscopy Studies of Phase Transformations and Microstructural Evolution in TRIP/TWIP β -Ti and Multi-Principal Element Alloys (Mines)
- 11:15 AM Project 17: S. Mills, Characterization of Microstructure Evolution in Nickel-Titanium-Hafnium Intermetallics (Mines)
- 11:45 PM Project 35: M. Mendoza, Characterization of Microstructures and Mechanical Properties in Linear Friction Welded and Electron Beam Additively Manufactured Ti-6Al-4V (ISU)
- 12:15 PM LIFE Form Review Session
- 12:45 PM Lunch
- 1:30 PM Project 36a-L: A. Saville, Rationalization of Liquid/Solid and Solid/Solid Interface Instabilities During Thermal–Mechanical Transients of Metal Additive Manufacturing (Mines)
- 2:00 PM Project 36b-L: M. Kenney, Rationalization of Liquid/Solid and Solid/Solid Interface Instabilities During Thermal–Mechanical Transients of Metal Additive Manufacturing (ISU)
- 2:30 PM Postdoc-L: J. Klemm-Toole, New postdoc introduction (Mines)
- 2:45 PM Project 32-L: G. Becker, Development of Cabinet Based Computed Tomography Methods for Studies of Microstructures and Defects in Metals (Mines)
- 3:15 PM ISU Undergraduates, Low Cost Bench Top Metal Additive Manufacturing
- 3:25 PM Break (15 min)
- 3:40 PM Project 14: C. Campbell, Characterization of Regions in Ti-6Al-4V Forgings with Diminished Ultrasonic Inspectability (Mines)
- 4:10 PM Postdoc-L: M. Jose Quintana and T. Ales, Spatially Resolved Acoustic Spectroscopy (SRAS) (ISU)
- 4:40 PM Project 37-L: N. Delfino de Campos Neto, Advanced Engineered Coatings with Extended Die Life for Tooling (Mines)
- 5:10 PM LIFE Form Review Session



5:40 PM Adjourn
6:00 PM Social at Torrent Brewing and dinner on your own

Friday, April 4, 2019

8:00 AM Welcome and Agenda Changes (Continental breakfast)
8:05 AM Project 38-L: S. Midson, On-Demand Casting of Net-Shape Titanium
 Components for Improved Weapon System Reliability (Mines)
8:20 AM Project 28-L: K. Clarke, Laboratory Testing to Identify Permanent PVD
 Coatings to Minimize Lubricant Use During Forging (Mines)
8:35 AM LIFE Form Review Session
8:45 AM New project selection and member voting
10:30 AM IAB Workshop (IAB and Directors Only, Closed to Non-Members)
11:45 AM NSF Closed Session with Industry (IAB & Center Evaluator, Closed to Non-
 Members)
12:45 PM Report out to CANFSA directors (Boxed lunch)
1:30 PM Adjourn