

DRAFT Agenda: CANFSA Virtual Fall IAB Meeting**October 13-15, 2020*****All times Mountain*****Tuesday, October 13, 2020**

- 8:30 AM Welcome, Attendee Introductions, Agenda Changes
- 9:00 AM Overview and Status of CANFSA
- 9:15 AM D. Meyer, NSF/IUCRC Updates and Review of LIFE Form Process
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Select meeting: TBD; password: TBD (will be updated)
- 9:45 AM A. Saville, Project 36A-L: Microstructural Evolution in Titanium Alloys Under Additive Manufacturing Conditions (Mines)
- 10:15 AM Break (15 min)
- 10:30 AM B. Milligan, Project 29-L: Identification of Deformation Mechanisms of Thermally Stable Cast Al-Cu Alloys via Neutron Diffraction (Mines)
- 11:00 AM B. Puerling, Project 43-L: Thermodynamics of Refractory Alloys (Mines)
- 11:30 AM N. Brown, Serrated Yielding in Ni Alloys (Mines)
- 11:45 AM J. Neuchterlein, New Member Introduction - Elementum 3D
- 12:05 PM Lunch
- 1:00 PM B. McBride, Project 31-L: Accumulative Roll Bonding of Al and Ti Sheets Toward Low Temperature Superplasticity (Mines)
- 1:30 PM B. Rodgers, Project 36E-L: In-Situ Characterization of Microstructural Evolution During Simulated Additive Manufacturing in Model Alloys (Mines)
- 2:00 PM J. Shin, Project 36D-L: Characterizing Additively Manufactured Inconel 718/738 (Mines) Break (15 min)
- 2:30 PM Break
- 2:45 PM K. O'Donnell, Project 36B-L: Iowa State University ONR MURI Research Progress (ISU)
- 3:15 PM New Student Introductions (Y. Ji (ISU), C. Jasien (Mines), N. Welch (ISU), S. Camerlo (Mines), A. Pauls (ISU), L. Drew & G. Tuell (Mines))
- 3:45 PM LIFE Form Review Session
- 4:30 PM Adjourn

Wednesday, October 14, 2020

- 8:00 AM S. Shirley, Project 40: Evaluation of Processing Path Effects on Microstructure and Properties of Powder Al TM Alloy (Mines)
- 8:30 AM B. Ellyson, Project 33A-L: In-situ Studies of Strain Rate Effects on Phase Transformations and Microstructural Evolution in β -Titanium (Mines)
- 9:00 AM G. Storey, Project 39: Solute and Precipitate Effects on Magnesium Recrystallization (Mines)
- 9:30 AM C. Johnson, Project 30-L: Mechanisms of Grain Refinement in Laser Powder Bed Fusion of In-Situ Metal Matrix Composite 6061 Aluminum Alloys (Mines)
- 10:00 AM Break (15 min)
- 10:15 AM B. McArthur, Project 34: Phase and Texture Evolution Preceding Abnormal Grain Growth in Ni-based Aerospace Alloys (Mines)
- 10:45 AM C. Becker, Project 32-L: Development of Cabinet Based Computed Tomography Methods for Studies of Microstructures and Defects in Metals (Mines)
- 11:15 AM New Student Introductions (A. Miklas (Mines), S. Blazanin (ISU), C. Smith (Mines))
New Faculty Introduction (S. Pathak (ISU))
- 12:00 PM Lunch
- 1:00 PM N. Delfino de Campos Neto, Project 37: Advanced Engineered Coatings with Extended Die Life for Tooling (Mines)
- 1:30 PM A. Temple, Predicting Mechanical Behavior (ISU)
- 2:00 PM LIFE Form Review Process
- 2:45 PM Break (15 min)
- 3:00 PM IAB Workshop (IAB and Directors Only, Closed to Non-Members)
- 4:00 PM NSF Closed Session with Industry (IAB & Center Evaluator, Closed to Non-Members)
- 5:00 PM Adjourn

Thursday, October 15, 2020

- 8:30 AM J. Klemm-Toole, Combining In-Situ and Ex-Situ Characterization to Understand Crystallographic Texture Development in Metal Additive Manufacturing (Mines)
- 9:00 AM T. Ales, Spatially Resolved Acoustic Spectroscopy (SRAS) (ISU)
- 9:30 AM D. Tong, Origins of Time-dependent Aluminum Springback
- 9:45 AM Break (15 min)



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- 10:00 AM C. Rietema, Development of Advanced 12Cr 1Mo Ferritic/Martensitic Steel for Reactor Core Applications
- 10:30 AM P. Collins, A new way of looking at ML/AI for Metallic Systems (ISU)
- 10:45 AM Report out to CANFSA directors (**IAB and Directors Only, Closed to Non-Members**)
- 12:00 PM Adjourn