

CANFSA Fall IAB Meeting, October 3-5, 2017
Colorado School of Mines, Golden CO

Tuesday October 3, 2016

- 12:00 Lunch – Hill Hall 300
- 1:15 Reconvene in Petroleum Hall, Green Center
- 1:15 Welcome and Brief Introductions of Attendees, New Guests/Faculty and any
Agenda Changes – M. Kaufman
- 1:45 Overview and Status of CANFSA – M. Kaufman and P. Collins
- 2:10 Review of LIFE form Process: David Meyer, Center Evaluator
- 2:30 Introduction of New Students
- 3:00 BREAK
- 3:15 Current Project Updates
- 3:15 *Identification of Deformation Mechanisms of Thermally Stable Cast Al-Cu
 Alloys via Neutron Diffraction by Brian Milligan*
- 3:40 *Mechanism of Dwell Fatigue Crack Initiation in Ti-7Al Under Biaxial Tension-
 Tension Loads by Garrison Hommer*
- 4:05 *Formation, High Temperature Stability and Mechanical Properties of
 Microeutectics in Bulk Solidified Al-Fe-Si-V and Related Alloys by Joe
 Jankowski*
- 4:30 *Deformation Mechanisms in Refractory-Based Complex Concentrated Alloys
 by Francisco Coury*
- 4:55 LIFE Form Review for Session
- 5:30 ATI Presentation (Title to be determined)
- 6:00 Adjourn
- 6:00 Evening social event

Wednesday October 4, 2016 (Petroleum Hall, Green Center)

- 7:30 - 8:00 Arrival
- 8:00 Presentation of New Project Ideas
- 9:30 BREAK
- 9:45 Current Project Updates
- 9:45 *Laboratory Testing to Identify Permanent PVD Coatings to Minimize Lubricant Use During Forging by Kester Clarke and Steve Midson*
- 10:05 *Evaluation of Nitriding Processes for Aluminum Alloys by Andy Korenyi-Both*
- 10:25 *Metallic Alloy Solidification Microstructures Produced by Rapid Solidification during Dynamic Transmission Electron Microscopy by Adam Stokes*
- 10:45 *Effects of Thermal Processing Variations on Microstructure and High Cycle Fatigue of Beta-STOA by Byron McArthur*
- 11:10 LIFE Form Review for Session
- 11:40: Materials State Awareness – N. Bowler & P. Collins
- 12:00 LUNCH
- 1:00 REU Student Reviews
- 1:45 Current Project Updates
- 1:45 *Assessment of Creep-Fatigue Behavior and Damage Mechanisms of Alloy 709 Under Accelerated Test Conditions by Ty Porter*
- 2:10 *Aging Degradation Mechanisms of Alloy 709 by Alan Carter*
- 2:35 *Impact of Heat Treatment on Cold Formability for a Nanostructured Ferritic Alloy by Connor Rietema*
- 3:00 BREAK
- 3:15 LIFE Form Review for Session
- 3:45 Current Project Updates
- 3:45 *Characterization of Microstructure Evolution in Nickel-Titanium-Hafnium Intermetallics by Sean Mills*
- 4:10 *Measurement and Modeling of Anisotropy in Ti-6Al-4V Forgings by Connor Campbell*
- 4:35 *Development of Novel High Temperature Ti Alloys by Brian Martin*
- 5:00 LIFE Form Review for Session
- 5:30 Open Discussion on Projects between Members, Faculty and Students
- 6:00 Adjourn
- 6:30 Evening Social Event

Thursday October 5, 2016 (Petroleum Hall, Green Center)

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| 7:30 – 8:00 | Arrival |
| 8:00 - 10:15 | LIFE Form and Voting on New Project Ideas |
| 10:15 – 10:30 | BREAK |
| 10:30 - 12:30 | Industry Workshop – (IAB and Directors only - closed to non-members) |
| 12:30 – 1:30 | LUNCH |
| 1:30 - 2:30 | NSF Closed Session with Industry (IAB & Center Evaluator – closed to non-members) |
| 2:30 – 3:30 | Feedback to site directors, summary and closing remarks |
| 3:30 | Adjourn |