

## Meeting at a Glance

### Dates:

Monday, October 21, 2024 - travel day, optional non-sponsored evening social for IAB and faculty at The Mucky Duck

Tuesday, October 22, 2024 - technical meeting, evening dinner at Sweet Caroline's

Wednesday, October 23, 2024 - technical meeting, evening dinner at Jethro's

Thursday, October 24 - morning only, CANFSA business meeting, return travel

Virtual by Zoom – see details on next page.

### Recommended Hotels

Note: Ames has a large number of hotels, all within easy access to the university. Each of these is a nice property, but each is also part of the three different “hotel clusters” in Ames, in case you have another preference.

Hilton Garden Inn, Ames (~5-7 minutes)

1325 Dickinson Ave Ames, Iowa 50014

<https://www.hilton.com/en/book/reservation/rooms/?ctyhocn=AMWGIGI>

The Gateway Hotel, Ames (~5-7 minutes)

2100 Green Hills Dr, Ames, IA 50014

<https://www.gatewayames.com>

SpringHill Suites by Marriott (~10 minutes)

1810 SE 16th St, Ames, IA 50010

<https://www.marriott.com/en-us/hotels/dsmsa-springhill-suites-ames/>

### Monday Evening Social

This is an optional social, depending upon when you arrive. Location will be at The Mucky Duck

### Tour and Student Mixer

To increase IAB connections with the ISU community, a tour and student mixer are planned for the afternoons on Tuesday and Wednesday.

### Tuesday Dinner

Tuesday following the tour, we will have dinner at Sweet Caroline's.

### Wednesday Dinner

Wednesday we will have dinner at Jethro's.

Zoom Information

Same Zoom for both days.

<https://iastate.zoom.us/j/98377750808?pwd=NfKSoMb22W7a71KmRtjBFIZf7jk6Dp.1>

Password: 087129

Or, go to <https://iastate.zoom.us/join> and enter meeting ID: 983 7775 0808 and password: 087129

Join from dial-in phone line:

+1 646 876 9923 or +1 646 931 3860

Meeting ID: 983 7775 0808

Participant ID: Shown after joining the meeting

International numbers available: <https://iastate.zoom.us/u/azqXmsDDD>

Membership Benefits Survey

Please scan the QR Code below to take the Membership Benefits Survey.



**Monday, Oct. 21, 2024 - Arrival and Dinner**

18:00 Hostless Dinner @ (Mucky Duck)

**Tuesday, Oct. 22, 2024 (Marston 3155)**

8:30 Breakfast - (Coffee/Pastries)

9:00 CANFSA Directors – Introductions and Agenda Modifications

9:30 Adam Freund, Mines – Aluminum for H<sub>2</sub> Service

9:55 Will Waliser, Mines – Fundamentals of Recrystallization Temperature in Binary Nb Alloys

10:20 Air Table - Feedback

10:30 Break

10:45 Valava Sambandam Rani, Mines – Quenching and Partitioning of Ti-6Al-4V and Novel Heat Treatments of beta-Ti Alloys to Design Microstructures and Properties

11:10 Jamie McIntyre, Mines – Scrap to Structural Alloys: Recycling Al Through High Scrap Content Wire-Based AM for Improved Sustainability

11:35 Air Table - Feedback

11:45 Lunch (Assorted sandwiches)– ISU Facilities and Faculty updates

*Yang Du* – Machine Learning for Additive Manufacturing (new faculty member)

*Eric Faierson* – Update on research capabilities and partnerships associated with advanced manufacturing in the Quad Cities

13:15 John Titus Barnett, ISU– Role of Thermomechanical Processing (TMP) on the Evolution of Microstructure and Response in Multi-Phase Refractory Alloys

13:40 Olajesu Olanrewaju, ISU – Studying Grain Boundary Regions in Polycrystalline Tantalum using Spherical Nano-indentation (Leveraged: Pathak)

14:05 Air Table - Feedback

14:15 Manish Kumar, ISU – Reliability of solder joints under extreme conditions of Elevated and Cryo Temperatures for In-Space applications (Leveraged: Pathak, Napolitano)

14:40 Gaoyuan Ouyang, ISU – Development of Copper Based Shape Memory Alloy (SMA) (Leveraged, mentor Cui)

15:05 Air Table - Feedback

15:15 Break

15:30 Tour MSE and NDE Teaching Laboratory

16:45 Adjourn

18:00 Dinner @ Sweet Caroline's (316 Main St, Ames, IA 50010)

**Wednesday, Oct. 23, 2024 (Marston 3155)**

8:00 Breakfast - (Coffee/Pastries)  
8:20 NSF Discussion (Jeff Ares)  
8:30 Company Talk #1: Ron Foerch, Transvalor Americas  
9:00 Company Talk #2: Todd Butler, AFRL  
9:30 Student mixer / panel with IAB  
10:30 Break / mixer  
10:45 Company Talk #3: Paul Mason, Thermo-Calc  
11:15 Company Talk #4: Adam Young, CBMM  
11:45 Lunch (assorted wraps)  
13:00 Matt Dolde, ISU – Gradient Materials – integrating design, manufacturing, measurements, and modeling for realizing new opportunities (Leveraged, advisor Collins)  
13:25 Chaochao Pan, ISU – Predicting the Limit of Electrical Conductivity in Copper-Graphene Multilayer System (Leveraged, mentor Cui)  
13:50 Air Table - Feedback  
14:00 Jaydeep Saha, ISU – Modeling and design of lattice structures (Leveraged: Collins)  
14:25 Grant Johnson, ISU – Towards hybrid additive manufacturing of duplex stainless steels: processing-microstructure-property relationships (Leveraged: Collins)  
14:50 Air Table - Feedback  
15:00 Break  
15:15 Leave Marston for afternoon tours – Driving to remote site  
15:30 Tour of SIF/Pathak Experiment  
16:00 Tour of CNDE  
17:00 Adjourn  
18:00 Dinner @ Jethro's (1301 Buckeye Ave, Ames, IA 50010)

**Thursday, Oct. 24, 2024 – (Marston 3155)**

7:45 Coffee/Pastries  
8:00 IAB Workshop: **IAB, Directors & NSF only, closed to non-members**  
9:30 New Project / Members Discussion: **IAB, Directors & NSF only, closed to non-members**  
10:00 NSF Closed Session with Industry: **IAB & NSF, closed to non-members**  
11:00 IAB Feedback to Center Directors: **IAB, Directors & NSF only**  
12:00 Adjourn, lunch on your own