

# AGENDA

## Wood-Based Composites Center Industry Advisory Board Fall 2022 Meeting

September 27 - 28, 2023

Lansing, Michigan

The James B. Henry Center for Executive Development

US: 5:00 AM (PST) | 6:00 AM (MST)

7:00 AM (CST) | 8:00 AM (EST)

Chile: 9:00 AM PM (GMT-3) |

Queensland, Aus.: *Following day,*

1:00 AM (GMT +10)

---

## Wednesday, September 27, 2023

**Registration | 7:30 – 8:00 AM | A169 Classroom**

**Welcome to IAB Meeting | 8:00 – 9:00 AM | A169 Classroom**

- Welcome & Introductions
- Director's Update
- Introducing the meeting

**Final Reports Session & Research Update | 9:00 – 10:20 AM | A169 Classroom**

**9:00 M-03-PR: Preliminary Investigation of DMDHEU-Treated Strand Board**

IAB TC Lead: Jesse Paris

Student: Shane Johnson | PI: Gerald Presley and Fred Kamke | Site: OSU

**9:20 O-05-NE: A Fundamental Study of Lignin Reaction with Formaldehyde**

IAB TC Lead: Sudip Chowdhury

Student: Debnath Debkumar | PI: Mojgan Nejad & Tuo Wang | Site: MSU

**9:40 M-02-PR: In-depth Characterization of Bondlines in CLT made with Preservative-Treated Lumber**

IAB TC Lead: Bob Breyer

Student: Cody Wainscott | PI: Gerald Presley and Jed Capellazzi | Site: OSU

**10:00 M-04-FR: Wax Migration – Research Update**

IAB TC Lead: Jesse Paris

Student: J.C. Stant | PI: Chip Frazier | Site: VT

**10:20 LIFE Forms - Password: wbc\_life**

**Coffee Break | 10:35 – 10:50 AM**

## Poster Session – Research Updates | 10:50 – 11:40 AM | A128, A139, A140, A141 Quad Rooms

---

**P-02-MU:** *Modeling of Edge Bending for Mass Timber Products (New)*

IAB TC Lead: Danny Way

Student: TBD | PI: Lech Muszynski & John Nairn | Site: OSU

**P-03-PR:** *Developing Methods for Determining Maximum Tolerance and Mechanisms of Interaction Between Fire Retardants, Preservatives, and Wood Adhesives (New)*

IAB TC Lead: Tim Zattau

Student: Shane Johnson | PI: Gerald Presley, John Simonsen & John Nairn | Site: OSU

**O-09-SC:** *Near Infrared Hyperspectral Imaging and Chemometric Techniques for Estimation of Percent Wood Failure (PFW) in Adhesive Bonds*

IAB TC Lead: Darren Riedlinger

Student: Ighoyivwi Onakpoma | PI: Lawrence Schimleck & Lech Muszyński | Site: OSU

**GUEST PRESENTATION:** *Lignin-specific Derivatization for Advanced Composite Materials*

Student: Emilie Kohler | PI: Chip Frazier | Site: VT

**GUEST PRESENTATION:** *Lignin-specific Derivatization for Advanced Composite Materials*

Presenter: Talbot Rueppel – Research Materials Engineer US Army Corps of Engineers (USACE) | ERDC | CERL

**11:40 LIFE Forms** - Password: [wbc\\_life](#)

**Lunch | 12:00 – 1:00 PM | A150 Atrium**

Lunch will be a buffet served at the Atrium.

## Research Updates Session | 1:00 – 2:15 PM | Room A169 Classroom

---

**1:00 I-10-FR:** *Carbon Isotope Ratios, novel view of CH<sub>2</sub>O emissions*

IAB TC Lead: Todd Miller

Student: Mark Cashman | PI: Chip Frazier | Site: VT

**1:15 N-02-MU:** *Long-term response of wood-based composites in variable climate conditions*

IAB TC Lead: Darren Riedlinger

Student: Oluwafunbi Adeleye | PI: Lech Muszynski, John Nairn, Mariapola Riggio | Site: OSU

**1:30 O-07-PE:** *Understanding the fundamental influence of wood extractives on wood adhesion*

IAB TC Lead: Bob Breyer & Bill Leggate

Student: Diego Cuartas | PI: Soledad Peresin, Suhasini Gururaja, John Nairn, John Simonsen & Chip Frazier | Site: AUB

**1:45 O-02-VI:** *Monitoring Phenol Formaldehyde and Wax Content with VIS/NIR Smartphone Technology*

IAB TC Lead: Chris Wren

Student: Seth Adusei | PI: Brian Via | Site: AUB

**2:00 LIFE Forms** - Password: [wbc\\_life](#)

**Coffee Break | 2:15 – 2:30 PM**

## Meeting Potential New Members | 2:30 – 5:30 PM | TBD

---

**2:30** Tour of Green Bioproducts Science & Engineering Labs

**3:30** Tour of Composite Materials & Structure Center

**4:30** Tour of STEM building - first mass timber construction at MSU

## Social Reception | 6:00 – 8:00 PM | The Graduate Hotel Lansing

Join us for food & drinks. 133 Evergreen Ave, East Lansing, MI 48823 | T: (517) 348-0900

## Thursday, September 28, 2023

**8:15** Welcome & Introduction to Research Roundtable

*\*Please review Research Roadmap “Hopper” for reference*

**Research Roundtable Session 1 | 8:30 – 9:30 AM | A159 Four Seasons**

**TOPIC A | TOPIC B | TOPIC C | TOPIC D**

**Research Roundtable Session 2 | 9:30 – 10:30 AM | A159 Four Seasons**

**TOPIC C | TOPIC D | TOPIC E | TOPIC F**

**Coffee Break | 10:30 – 10:45 AM**

**Research Roundtable Session 3 | 10:45 – 11:45 AM | A159 Four Seasons**

**TOPIC E | TOPIC F | TOPIC A | TOPIC B**

**Wrap-Up and Reflections | 11:45 AM – 12:15 PM | A159 Four Seasons**

**Lunch | 12:15 – 1:15 PM | A150 Atrium**

Lunch will be a buffet served at the Atrium

## IAB Technical Committee Closed-Door Session | 1:00 – 4:00 PM | A138 Quad

---

**Who can attend:** IAB members, Guests, and Managing Director \*Times may vary

**1:00** Introductions – Roll Call

**1:15** Director's Research Program Update

**1:30** Research Updates

- LIFE Form Summary Review
- Appointment/Modification of Technical Advisors
- Feedback: Technical Committee Impressions Progress / Student Preparation

### Coffee Break | 2:30 – 2:45 PM

**3:00** Research Updates

- LIFE Form Summary Review
- Appointment/Modification of Technical Advisors
- Feedback: Technical Committee Impressions Progress / Student Preparation

## IAB Technical Committee Decisions & Recommendations | 4:00 – 4:30 PM | A138 Quad Room

---

**Who can attend:** IAB members, Directors, Guests, **Faculty**, Managing Director

Faculty are invited to the Technical Committee session for feedback and outcomes of funding decisions.

**End of WBC IAB Fall Meeting 2023 | 4:30 PM**

For questions or comments contact:

**Patricia Vega Ph.D.**

WBC Managing Director

patricia.vega@oregonstate.edu

Cel: (541) 286 8259