AGENDA

IAB FALL 2021 MEETING, NOV 9-10

Monday, November 8
3:00-4:30 PM (CT)
Zoom Link

Tuesday, November 9
9:00 AM – 3:10 PM (CT)
Zoom Link

Wednesday, November 10
9:00 AM – 12:00 PM (CT)
Zoom Link

VENUE LOCATION: ZOOM
Note: the same link is being used for all three days. Full meeting details a below.

Join Zoom Meeting
https://ndsu.zoom.us/j/91684090796?pwd=K1ByT3Fhd3NqU3czMDY1WG5PWlIQQT09

Meeting ID: 916 8409 0796
Passcode: 112294
One tap mobile
+13462487799, 91684090796# US (Houston)
+16699006833, 91684090796# US (San Jose)

Dial by your location
+1 346 248 7799 US (Houston)
+1 669 900 6833 US (San Jose)
+1 253 215 8782 US (Tacoma)
+1 312 626 6799 US (Chicago)
+1 929 436 2866 US (New York)
+1 301 715 8592 US (Washington DC)

Meeting ID: 916 8409 0796
Find your local number: https://ndsu.zoom.us/u/gcNx4/Zfn

Join by SIP
91684090796@zoomcrc.com
Join by H.323
162.255.37.11 (US West)
162.255.36.11 (US East)
Meeting ID: 916 8409 0796
Passcode: 112294
Monday, November 8

3:00 PM CT  WELCOME AND LOGISTICS OF SOCIAL
David Grewell
ZOOM open to all – ten minutes
Randomized break out rooms
15 minutes each
Move four times (~one hour)

Tuesday, November 9

9:00 AM CT  WELCOME AND LOGISTICS OF ZOOM
• David Grewell, Center Director

9:05 AM CT  Q&A ON UPDATE ON CENTER ACTIVITIES-VIDEO
• David Grewell, Center Director
• Washington State University Update
• North Dakota State University Update
• Iowa State University Update
• University of Georgia Update
• Phase II

9:15 AM CT  NSF I/UCRC PROGRAM
• Kevin Christopher, NSF Assessment Coordinator

9:30 AM CT  PROJECT L.I.F.E. REVIEW
Prerecorded presentations will be provided.
Projects requesting continuation of funding.

Ten minutes per project of discussion and completion of Level of Interest Feedback Evaluation [LIFE] form.

9:30 AM  C1: Plant Oil Based Latex Adhesives
Andriy Voronov, Ghasideh Pourhashem, North Dakota State University

9:40 AM  C2: Moisture Sensitivity of PLA/PBS Blends During Ultrasonic and FDM Welding
Lokesh Narayanan, David Grewell, Chris Hartlage, Leo Klinstein, North Dakota State University

9:50 AM  C4: Investigating Root Cause and Reduce Fogging Behavior of Natural Fiber Filled Thermoplastics
Ali Amiri, Chad Ulven, North Dakota State University
10:00 AM CT  BREAK

Ke Li, Jason Locklin, Dean Webster, University of Georgia/North Dakota State University

10:30 AM  C6: Bio-based Core-shell Impact Modifiers to Increase Toughness of Composites and Adhesives
Eric Cochran, Iowa State University

10:40 AM  C7: Exploration of Bio-Based Functional Building Blocks for Durable Coatings
Dean Webster, Mukund Sibi, North Dakota State University

10:50 AM  C8: Investigation of the Marine Degradability of Polymers of Interest to IAB Members
Branson Ritchie, University of Georgia

11:00 AM CT  PROJECT L.I.F.E. REVIEW
Prerecorded presentations will be provided.
Projects requesting new funding.

11:00 AM  N1: Little-Known Nylon: Nylon 59 Properties
Eric Cochran, Jason Locklin, Iowa State University/University of Georgia

11:10 AM  N2: Bioadvantaged Nylons for Biobased Packaging
Jessica Vold, Dean Webster, Erik Hagberg, North Dakota State University

11:20 AM  N3: Enzymatic Degradation of PLA at Low Temperatures
Evan White, Breeanna Urbanowicz, Jason Locklin, University of Georgia

11:30 AM CT  BREAK

12:00 PM CT  IAB LUNCH (IAB RETURNS TO MAIN ZOOM ROOM FOR FINAL DIRECTIONS)
1:00 PM CT  PROJECT L.I.F.E. REVIEW  
Prerecorded presentations will be provided.  
Projects requesting new funding, continued.

1:00 PM  N4: Natural Fiber-Based Alternatives for Flexible Packaging in E-commerce  
Lokesh Narayanan, Chad Ulven, North Dakota State University

1:10 PM  N5: Lignin-Derived Functional Materials for the Preparation of Biopolymers  
Xiao Zhang, Udishnu Sanyal, Jinwen Zhang, Washington State University

1:20 PM  N6: Natural Fiber Reinforced Nylon-Based Composites for Under the Hood Applications  
Vikram Yadama, Raul Pelaez-Samaniego, Manuel Garcia-Perez, Washington State University

1:30 PM  N7: Bio-Based Coatings for High-Performance Flexible Paper Packaging Application  
Suraj Sharma, Sudhagar Mani, University of Georgia

1:40 PM  N8: Evaluation of Polyethylene Furoate (PEF) Fiber Spinning and Degradation in the Marine Environment  
Hang Liu, Chunhui Xiang, Washington State University/Iowa State University

1:50 PM CT  BREAK

2:00 PM  N9: Soybean-Derived Thermoplastics for Improved Bioplastic Performance  
Jason Locklin, Eric Cochran, University of Georgia/Iowa State University

2:10 PM  N10: Disk Refined Recycled Plastic Packaging and Natural Fiber Composites  
Karl England, Hui Li, Washington State University

2:20 PM  N11: Increasing PLA Biodegradability in Natural Environments Through Incorporating Thermoplastic Starch and Enzymes  
Long Jiang, Mohammad Sabzi, North Dakota State University
2:30 PM  N12: Development of Hemp Oil-Based Biodegradable Coatings on Paper Cups/Paperboards  
Lingling Liu, Iowa State University

2:40 PM CT  BREAK

2:50 PM  N13: Hybrid Bio/Catalytic Production of Monomers from Lignocellulose  
Mark Eiteman, James Kastner, University of Georgia

3:00 PM  N14: Bio-Derived Uretidiones for Isocyanate-Free Polyurethanes  
Michael Forrester, Iowa State University

3:10 PM  N15: Hemicellulose Derived Commodity Chemicals for Packaging and Coating Applications  
Breeanna Urbanowicz, Maria Pena, Sergiy Minko, University of Georgia

3:20 PM  N16: Upcycling of PET and PLA Plastic Wastes into Aliphatic-aromatic Biodegradable Block Copolyesters for Packaging Applications  
Jinwen Zhang, Washington State University

3:30 PM CT  TODAY’S WRAP UP  
David Grewell, Center Director

3:40 PM CT  ADJOURN
### Wednesday, November 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 AM CT</td>
<td><strong>READOUT AND DISCUSSION OF LIFE FORMS</strong>&lt;br&gt;Chair of IAB (Kelly Williams)/ALL</td>
</tr>
<tr>
<td>10:00 AM CT</td>
<td>IAB Meeting</td>
</tr>
<tr>
<td>11:30 AM CT</td>
<td><strong>ANNOUNCE PROPOSALS/ACTION ITEMS AND PLAN FOR NEXT SEMI-ANNUAL MEETING</strong>&lt;br&gt;Chair of IAB (Kelly Williams)/ALL</td>
</tr>
<tr>
<td>11:45 AM CT</td>
<td>PM SUMMARY AND CLOSING REMARKS</td>
</tr>
<tr>
<td>12:00 AM CT</td>
<td><strong>PI’S TRAINING AND EXPECTATIONS (MANDATORY FOR ALL PIS)</strong></td>
</tr>
</tbody>
</table>