



# Session II Industry Feedback

Ashley Tracey, Will Grace  
The Boeing Company

Fall 2017 AMTAS Meeting | November 8, 2017

# Improving Adhesive Bonding of Composites through Surface Characterization

Marc Staiger, Rita Taitano Johnson, Brian Flinn | University of Washington

- Amine blush formation in epoxy paste adhesives
  - Mitigation techniques – protective film, limit amine mobility (e.g. high viscosity adhesives – how does this impact wetting?)
  - Measurement of amine blush thickness

# Development and Evaluation of Environmental Durability Test Methods for Composite Bonded Joints

Heather McCartin, Dan Adams | University of Utah

- Characterization of the bondline – adhesive properties vs. adhesion failure

# Effect of Surface Contamination on Composite Bond Integrity and Durability

Ben Boesl, Dwayne McDaniel | Florida International University

- Relationship between surface characteristics and bond quality?



# Session III Industry Feedback

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# Durability of Adhesively Bonded Aerospace Structure

Lloyd Smith | Washington State University

- Adhesives are the “strong” link – what about characterization of the “weaker” laminate and it’s impact on adhesive bond durability?

# Evaluation of Notch Sensitivity of Composite Sandwich Structures

Marcus Stanfield, Dan Adams | University of Utah

- Impact of adherend flexing on measurement? (transverse shear)

# Effects of Moisture Diffusion in Sandwich Structures

Mark Tuttle | University of Washington

- How can you evaluate moisture diffusion on an airplane? How does this testing compare to what is observed in the field?