



# Session II Industry Feedback

Ashley Tracey, Will Grace  
The Boeing Company

Fall 2018 AMTAS Meeting | November 7, 2018

# 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
- Controlled weak bonds – could amine blush be used to create them?
- Can amine blush occur on film adhesives? Or some analog to amine blush? Maybe explore the chemistry of long outtimes in different environments – UV, temp, humidity?

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

Heather McCartin, Dan Adams | University of Utah

- Way to measure the force?

# Effect of Surface Contamination on Composite Bond Integrity and Durability

Ben Boesl, Dwayne McDaniel | Florida International University



# Session III Industry Feedback

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# Durability of Adhesively Bonded Aerospace Structure

Lloyd Smith | Washington State University

- Time Dependent work – strain gages on scarf
- Adhesive bulk strength effects – moisture, other effects
- Linkage to contamination effects

# Evaluation of Notch Sensitivity of Composite Sandwich Structures

Marcus Stanfield, Dan Adams | University of Utah

- Develop methods
- Document methods
- ASTM standards

# Laboratory Simulation of Ground-Air-Ground Pressurization of Sandwich Panels

Mark Tuttle | University of Washington

- Relationship to propagation loads and failure modes
- Test at cold temps
- Test with moisture conditioned sandwich
- Consider internal pressurized test rig?