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?