A Center of Excellence
AMTAS
Advanced Materials in Transport Aircraft Structures

AMTAS Spring 2009 Meeting

April 23, 2009

University of Washington, HUB 310

Revised AGENDA

8:00 AM	Registration & Coffee	
8:30–9:00 AM	Welcome and Brief Remarks AMTAS/JAMS: Status and Phase I/II Highlights	Mark Tuttle, AMTAS Director
9:00–9:15 AM	FAA Perspectives on AMTAS Research & Educational Developments	Larry Ilcewicz, FAA
9:15-10:45 AM	Directions for 1st-year AMTAS Projects	
9:15–9:35	• Simplifying Certification of Discontinuous Composite Material Forms for Aircraft Structures	Bruno Boursier, Hexcel Corp.
9:35–9:45	*Discussion*	
9:45–10:05	• Education Strategy Development	Charlie Seaton, EdCC
10:05–10:15	*Discussion*	
10:15–10:30	• Inverse/Optimal Thermal Repair of Composites	Ashley Emery, UW ME
10:30–10:45	*Discussion*	
10:45–11:00 AM	Coffee Break	
11:00 AM–12:00 PM	Potential Topics for Future AMTAS Projects	
11:00–11:10	• Improved Composite Repair using a Pressurized Repair Clave	Kuen Lin, UW
11:10–11:20	*Discussion*	
11:20–11:40	• Effects of Moisture Diffusion in Sandwich Composites	Mark Tuttle, UW
11:30–11:40	*Discussion*	
11:40–11:50	• Consideration of the Maximum Strain as a General First Ply Failure Criterion in Laminated Composites	Lloyd Smith, WSU
11:50–12:00	*Discussion*	
12:00–12:45 PM	Lunch	
12:45–1:50 PM	Potential Topics for Future AMTAS Projects *(continued)*	
12:45–12:55	• Development of Quality Verification Methods for Adhesively Bonded Joints	Brian Flinn, UW
12:55–1:05	*Discussion*	
1:05–1:15	• Crack Development in Cyclically Loaded Pressurized Cylindrical Carbon-Fiber Shell Structures	Dwayne McDaniel, FIU
1:15–1:30	*Discussion*	
1:30–1:40	• Bird Strike Simulation	Mostafa Rassaian, The Boeing Co.
1:40–1:50	*Discussion*	
1:50–2:10 PM	Break	

CONTINUES ON OTHER SIDE

2:10–3:10 PM	Non-Aerospace Applications of Composites	
2:10–2:30	• National Marine Energy Research Center—Tidal Energy	Brian Polagye, UW ME
2:30–2:40	*Q&A*	
2:40–3:00	• Composite Flywheels	Brian Fabien, UW ME
3:00–3:10	*Q&A*	
3:10 PM	Next steps/Wrap-up	Mark Tuttle
3:30 PM	Adjourn	