



APRIL 5, 2012
BALTIMORE, MARYLAND
BALTIMORE MARRIOTT WATERFRONT

In Concurrency With



AGENDA

Federal Aviation Administration
Joint Advanced Materials & Structures (JAMS) Center of Excellence
8th Annual Technical Review Meeting

April 5, 2012

Hosted by AMTAS
In concurrence with AA&S 2012

Thursday, April 5, 2012

7:00 AM	Registration	Grand Ballroom Registration Area, 3 rd Floor
7:00 AM	Continental Breakfast	4 th Floor Foyer
7:00 AM	Speakers' Breakfast	Laurel D, 4 th Floor
8:00 AM	Call to Order/Welcome (Curtis Davies , JAMS Program Manager; Mark Tuttle , AMTAS Director; John Tomblin , CECAM Director)	Harborside C, 4 th Floor

SESSION 1: TESTING and ANALYSIS

8:05 AM	Failure of Notched Laminates under Out-of-Plane Bending (John Parmigiani , Oregon State University)	
8:30 AM	Development and Evaluation of Fracture Mechanics Test Methods for Sandwich Composites (Dan Adams and Zachary Bluth, University of Utah)	
9:00 AM	Damage Tolerance Test Method Development for Sandwich Composites (Dan Adams and Brad Kuramoto , University of Utah)	
9:30 AM	Break	4 th Floor Foyer

SESSION 2: ADHESIVE BONDING and REPAIR

10:00 AM	Infrared Spectroscopy: A Potential Quality Assurance Method for Composite Bonding (Ashley Tracey and Brian Flinn , University of Washington)	
10:30 AM	Durability of Adhesively Bonded Joints for Aircraft Structures (Dan Adams , Larry DeVries and Clint Childs, University of Utah)	
11:00 AM	Effect of Surface Contamination on Composite Bond Integrity and Durability (Tomas Pribanic, Dwayne McDaniel and Vishal Musaramthota, Florida International University; Xiangyang Zhou, University of Miami)	

11:30 AM	CACRC Depot Bonded Repair Investigation – Round Robin Testing (John Tomblin and Lamia Salah , National Institute for Aviation Research, Wichita State University)	
12:00 PM	Lunch	Grand Ballroom, 3 rd Floor
1:00 PM	FAA Centers of Excellence Phase III Update (Pat Watts, COE Program Director)	

SESSION 3: DAMAGE and ENVIRONMENT

1:30 PM	Impact Damage Formation on Composite Aircraft Structures (Hyonny Kim (University of California - San Diego))	
2:00 PM	Certification of Composite-Metal Hybrid Structures —Damage Tolerance Testing and Analysis Protocols for Full-Scale Composite Airframe Structures under Repeated Loading (John Tomblin and Waruna Seneviratne , National Institute for Aviation Research, Wichita State University)	
2:30 PM	Environmental Compensation Factor Influence on Composite Design and Certification (John Tomblin and Waruna Seneviratne , National Institute for Aviation Research, Wichita State University)	
3:00 PM	Break	4 th Floor Foyer

SESSION 4: CRASHWORTHINESS and MATERIAL ISSUES

3:30 PM	Challenges and Opportunities In Crashworthiness Certification of Composite-Intensive Airframe Structures (Mostafa Rassaian , The Boeing Co., for Paolo Feraboli, Bonnie Wade and Max Spetzler, University of Washington)	
4:00 PM	Crashworthiness Evaluation of Composites Structures—Certification by Analysis (Gerardo Olivares , Juan Acosta and Vikas Yadav, National Institute for Aviation Research, Wichita State University; Suresh Keshavanarayana, Wichita State University)	
4:30 PM	Buckling/Crippling of Structural Angle Beams Produced using Discontinuous-Fiber Composites (Tory Shifman, Brian Head, and Mark Tuttle , University of Washington)	
5:00 PM	Development of Dynamic Mechanical Analyzer (DMA) Calibration & Testing Procedures (John Tomblin, Matt Opliger , and Yeow Ng, National Institute for Aviation Research, Wichita State University)	
5:30 PM	Concluding Comments and Wrap-up (Curtis Davies , FAA)	
5:40 PM	Adjourn	



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