

Draft Detailed Agenda

2011 FAA/EASA/Industry Composite Transport Fatigue, Damage Tolerance, Maintenance & Crashworthiness Workshop					
Tuesday (May 17th, 2011)		Wednesday (May 18th, 2011)		Thursday (May 19th, 2011)	
Composite Safety & Certification Initiatives (FAA and EASA)		Session 1: Composite and Metal Interface Issues		Composite Structural Engineering Course: Crashworthiness Module	
8:00-8:15	<i>"Welcome/Introduction/Workshop Objectives"</i> - Larry Ilcewicz and Curtis Davies (FAA)	8:00-8:45	<i>"Benchmarking the Composite Fatigue Test"</i> - John Halpin (JCH Consultants)	8:00-9:00	<i>Crashworthiness Module: Overall Outline, Objectives and Content Developments</i> - Paolo Feraboli (University of Washington)
8:15-9:00	<i>"FAA Composite Safety & Certification Initiatives and Recent AC Developments"</i> - Lester Cheng, Rusty Jones and Larry Ilcewicz (FAA)	8:45-9:30	<i>"Fatigue Test Data for Composite Design Variables, With and Without Damage "</i> - Waruna Seneviratne and John Tomblin (WSU)	9:00-9:30	<i>"Course Contribution in Selected Areas: 1) Seat Crash Analysis and Certification and 2) Rotocraft Experience in Crash Certification"</i> - Joseph Pelletiere (FAA)
9:00-9:30	<i>"EASA Composite Initiatives and the Process Used for AMC 20-29 Development"</i> - Simon Waite (EASA)	9:30-10:00	<i>Open Forum with Workshop Participants</i>	9:30-10:00	<i>"Course Contribution in Selected Areas: Large Scale Test Expectations"</i> - Allan Abramowitz (FAA)
9:30-10:15	<i>"2011 FAA Interface with Industry & Other Regulatory Org. to Support Active Composite Educational and Guidance Initiatives"</i> - Larry Ilcewicz (FAA)	10:00-10:15	<i>Break</i>	10:00-10:15	<i>Break</i>
10:15-10:30	<i>Break</i>	Session 2: High Energy, Wide Area, Blunt Impact		Open Industry Forum	
Composite Structural Engineering Course: Proof of Structure Module (with emphasis on the Fatigue and Damage Tolerance Section)		10:15-10:45	<i>"FAA Perspectives on Awareness and Reporting of Significant Impact Incidents Involving Composite Airframe Structures"</i> - Larry Ilcewicz (FAA)	10:15-10:45	<i>Perspectives on Rules, Guidance and Standards Needs</i>
10:30-11:30	<i>"Course Outline and Objectives for the Proof of Structure Section"</i> - Tom Walker & D.M. Hoyt (NSE Composites) & Steve Ward (SW Composites)	10:45-11:15	<i>"Impact Threat Analysis and Testing Methodology"</i> - Chantal Fualdes (Airbus)	10:45-11:15	<i>Composite Transport Structure Crashworthiness Considerations</i>
11:30-Noon	<i>Open Forum with Workshop Participants</i>	11:15-11:35	<i>"Blunt Impact on Composite-Metallic Aircraft Structure: Overview of the EASA / Bishop GmbH Research Project"</i> - Zoltan Mikulik (Bishop GmbH)	Session 5a: Crashworthiness Certification Protocol	
Noon-12:30	<i>"Progress on an Example Sub-Section"</i> - Tom Walker and D.M. Hoyt (NSE Composites)	11:35-12:30	<i>"High Energy Blunt Impact Damage on Composite Aircraft Structure"</i> + <i>Additional Audience Forum</i> - Hyonny Kim (UCSD)	11:15-11:45	<i>"Crash Dynamics Summary"</i> - Joseph Pelletiere (FAA)
12:30-1:30	<i>Lunch</i>	12:30-1:15	<i>Lunch (FAA Perspectives on JAMS Research)</i>	11:45-12:15	<i>"Building Block Methodology to Support the Crashworthiness Evaluation of Composite Aircraft Structures"</i> - Gerardo Olivares (WSU) & Allan Abramowitz (FAA)
Composite Structural Engineering Course: Maintenance Interface Modules		Session 3: Damage in Sandwich Construction		12:15 - 1:15	<i>Lunch</i>
1:30-2:15	<i>"Progress with Maintenance Interface Modules"</i> - Mike Borgman (Spirit AeroSystems)	1:15-1:45	<i>"CACRC Design Guidelines (Problems with Sandwich Damage)"</i> - Eric Chesmar (United Airlines)	Session 5b: Crashworthiness Certification Protocol	
Open Industry Forum		1:45-2:30	<i>"Proposed Strategy for Compliance Validation with 25.571 at Amendment 132 for Honeycomb Fuselage Structure"</i> - Don Wernert (Hawker Beechcraft)	1:15-1:45	<i>"Crashworthiness Evaluation of Aircraft Structures - Analytical and Computational Methods"</i> - Gerardo Olivares (WSU) and Allan Abramowitz (FAA)
2:15-3:15	<i>Safety Awareness Education Needs and Composite Industry Designee Qualifications for Safe Composite Transport Applications</i>	2:30-3:15	<i>"Damage in Sandwich Construction: Best Practices for Prevention/Detection"</i> - Roland Thevenin (Airbus)	1:45-2:15	<i>"Analysis Calibration and Validation of Analytical Models for Composite Structures Subjected to Dynamic Loading"</i> - Mostafa Rassaian (Boeing)
3:15-3:30	<i>Break</i>	3:15-3:30	<i>Break</i>	Industry Perspectives on Transport Composite Fuselage Crashworthiness	
Industry Perspectives on Composite and Metal Interface Issues		Session 4: Bonded Repair Size Limits		2:15-2:45	<i>"Analysis and Test Protocol for Dynamic Impact Phenomena"</i> - Michel Mahe (Airbus)
3:30-4:00	<i>"Fatigue and Damage Tolerance Reliability and Large Scale Testing"</i> - Allen Fawcett, David Polland and Kevin Davis (Boeing)	3:30-4:00	<i>"Airline Perspectives on the Constraints of Bonded Repair Size Limits"</i> - Todd Herrington (Delta Airlines)	2:45-3:15	<i>"Crashworthiness of Transport Structure"</i> - Kevin Davis (Boeing)
4:00-4:30	<i>"Methodology for Large Scale Testing Protocol for Structures that Contain Both Metal and Composite Structures"</i> - Chantal Fualdes (Airbus)	4:00-4:30	<i>"Bonded Repair Reliability and Failsafety"</i> - Allen Fawcett, David Polland and Kevin Davis (Boeing)	3:15-3:30	<i>Recap/Actions/Closure</i> - Larry Ilcewicz (FAA) and Curtis Davies (FAA)
Airline Field Experiences		4:30-5:30	<i>"Experience with Large Bonded Repairs: Observations on Classification, Substantiation, Approvals, and Fleet Performance"</i> - Mike Borgman and John Welch (Spirit AeroSystems)		
4:30-5:30	<i>"Airline Field Experiences of Relevance to May 18 Sessions 2, 3 and 4"</i> - Ray Kaiser & Todd Herrington (Delta Airlines) & Eric Chesmar (United Airlines)				

Agenda entries given in blue will be updated for the final detailed agenda