



Welcome to the
3rd FAA/EASA/Industry
Composite Damage Tolerance and
Maintenance Workshop

Thank you to all the sponsors that have helped to make this workshop possible



FAA

WSU

JAL

LMI-D3

Intec

Boeing

Mitsubishi Aircraft Corp.

European Aviation Safety Agency - EASA



Agenda – Thursday AM

Thursday, June 4th, 2009	
	Opening Session (Introductions, Regulatory Initiatives)
9:00-9:15	<i>"Welcome/Introduction"</i> - Takashi Saito* (JAL), Ray Kaiser (CACRC Chairman), Jun Yamanaka (JAL) and Robert LaMantea (Intec)
9:15-10:00	<i>"Composite Damage Tolerance and Maintenance Initiatives"</i> - Larry Ilcewicz (Federal Aviation Administration)
10:00-10:30	<i>"EASA Perspectives on Safe Composite Damage Tolerance & Maintenance Practices"</i> - Simon Waite (European Aviation Safety Agency)
10:30-10:50	<i>"JCAB Perspectives on Safe Composite Aircraft Structure; Parts 1 and 2"</i> - Atsushi Kanda and Takao Okada (Japan Aerospace Exploration Agency)
10:50-11:10	<i>Break</i>
	Session 1: Applications & Service Experiences
11:10-11:30	<i>"Japan Airlines Perspective on Applications & Field Experiences for Composite Airframe Structures"</i> - Jun Yamanaka (Japan Airlines)
11:30-12:15	<i>"Substantiation of Damage Growth, Residual Strength and Inspection Procedures for Transport Rudder Sandwich Structure"</i> - Ralf Hilgers (Airbus)
12:15-12:45	<i>"Lufthansa Perspective on Applications & Field Experiences for Composite Airframe Structures"</i> - Christian Sauer (Lufthansa Technik)
12:45-13:30	<i>"Design Substantiation for New Applications of Composite Airframe Structures"</i> - David Polland (Boeing)
13:30-14:30	<i>Lunch</i> (LMI Aerospace-D3, Karin Anderson & WSU Website Archives for Past Workshops)

Agenda – Thursday PM

	Session 2: Damage Threats and Inspection Strategies
14:30-15:15	<i>"Airbus Flight Control Sandwich Structures and Maintenance Program"</i> - Roland Thevenan (Airbus Industries)
15:15-15:45	<i>"Field Experience - Lightning Strike Damage of ANA B767"</i> - Nobuyuki Nakayama (All Nippon Airlines)
15:45-16:30	<i>"Managing Damage Threats for Composite Structures: Unifying Durability and Damage Tolerance Perspective"</i> - John Halpin (JCH Consultants) and Hyonny Kim (UCSD)
16:30-16:45	<i>Break</i>
	Session 3: Damage Tolerance and Repair Substantiation
16:45-17:15	<i>"Bolted Repair in Composite Structure"</i> - Jeffry Berner (Boeing)
17:15-18:00	<i>"Research on Structural Test & Analysis Protocol: Progress and Plans"</i> - Waruna Seneviratne (WSU) and John Tomblin (WSU)
18:00-18:30	<i>"NASA Perspectives on Composite Airframe Structural Substantiation: Past Support and Future Developments"</i> - Rick Young, NASA Langley Research Center

Agenda – Friday AM

Friday, June 5th, 2009	
	Session 3: Damage Tolerance and Repair Substantiation, <i>Cont.</i>
9:00-9:30	<i>"Bondline Analysis and Bonded Repairs"</i> - Stephane Mahdi (Airbus)
9:30-10:00	<i>"Perspectives on the Complexity of Structural Substantiation, Including Non-standard Damaging Events and Repair"</i> - Mike Borgman, MD Borgman Consulting
	Session 4: Regulatory Guidance, CACRC Standards & Related Training
10:00-10:30	<i>"Updates to AC 20-107B Composite Aircraft Structure, FAA and EASA Progress with Official Release"</i> - Lester Cheng & Larry Ilcewicz (FAA) and Simon Waite (EASA)
10:30-11:00	<i>"United Perspectives on Composite Maintenance Challenges and Regulatory Issues"</i> - Eric Chesmar, United Airlines
11:00-11:15	<i>Break</i>
	Session 4: Regulatory Guidance, CACRC Standards & Related Training, <i>Cont.</i>
11:15-12:00	<i>"OEM Perspectives on Near & Long-Term Needs in Composite Repair Standardization/CACRC and Regulatory Guidance"</i> - Arne Lewis (Boeing) and Francois Musseaux (Airbus)
12:00-12:45	<i>"Definition and Added Regulatory Oversight of 'Re-Manufacture' for Flight Critical Bonded Structure"</i> - Todd Herrington Delta Airlines
12:45-13:15	<i>"FAA Composite Training Initiatives: Including Damage Tolerance and Maintenance "</i> - Charles Seaton (Edmonds CC)
13:15-14:15	<i>Lunch</i> <i>(Sponsor acknowledgements and discussion of Future FAA Workshop Topics)</i>

Agenda – Friday PM

	Session 5: Technical Breakout Sessions
14:15-16:15	<p style="text-align: center;"><u>Four Separate Working Meetings for the Subjects Listed Below</u></p> <ul style="list-style-type: none">- Applications & Service Experiences (Lester Cheng, Charlie Seaton & Simon Waite)- Damage Threats and Inspection Strategies (John Halpin, Hyonny Kim and Curt Davies)- Damage Tolerance & Repair Substantiation (Mike Borgman, Waruna Seneviratne & Allen Rauschendorfer)- Regulatory Guidance, CACRC Standards & Related Training (Ray Kaiser, Arne Lewis & Larry Ilcewicz)
16:15-16:30	<i>Break</i>
	Session 6: Breakout Team Summaries, Recap/Actions/Closure
16:30-17:30	<ol style="list-style-type: none">1) Applications & Field Experiences (Charlie Seaton)2) Damage Threats and Inspection Strategies (John Halpin)3) Damage Tolerance & Repair Substantiation (Mike Borgman)4) Regulatory Guidance, CACRC Standards & Related Training (Ray Kaiser)
17:30-18:00	<p><i>"Recap/Actions/Closure"</i></p> <ul style="list-style-type: none">- Brian Coxon (Intec) and Larry Ilcewicz (FAA)



Composite Damage Tolerance and Maintenance Initiatives

Dr. Larry Ilcewicz

Chief Scientific and Technical Advisor, Composites

Federal Aviation Administration
U.S. Department of Transportation