



MARCH 21-24, 2016
GRAPEVINE, TEXAS
HOSTED AT THE GAYLORD TEXAN

In Concurrency With **AA&S 2016**

AGENDA

Federal Aviation Administration
Joint Advanced Materials & Structures (JAMS) Center of Excellence
12th Annual Technical Review Meeting
March 22–23, 2016

Hosted by AMTAS
In concurrence with AA&S 2016

All events will be held on Level 3 of the Gaylord Convention Center

All JAMS sessions will be held in Dallas Rooms 5–6 on Level 3

Tuesday, March 22, 2016

6:45 AM	Speakers' Breakfast	Texas Ballroom 1
7:00 AM–7:00 PM	Exhibit Hall open	Texas Ballroom A
10:00 AM	JAMS Registration	Texas Ballroom Foyer
12:15–1:30 PM	Luncheon (Exhibit Hall)	Texas Ballroom A
1:15 PM	Call to Order/Welcome (Curtis Davies , JAMS Program Manager; Mark Tuttle , AMTAS Director; John Tomblin , CECAM Director)	Dallas Rooms 5-6

TEST METHODS

1:30 PM	Non-Destructive Evaluation Methods for Detecting Major Damage in Internal Composite Structural Components (Francesco Lanza di Scalea and Hyonny Kim, University of California–San Diego)
2:00 PM	Notch Sensitivity Testing and Failure Analysis of Sandwich Composites (Dan Adams , University of Utah)

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BONDED STRUCTURES

2:30 PM	CACRC Depot Bonded Repair Investigation – Round Robin Testing (John Tomblin and Lamia Salah , NIAR, Wichita State University)	
3:00 PM	Break (Exhibit Hall)	Texas Ballroom A
3:30 PM	Effect of Surface Contamination on Composite Bond Integrity and Durability (Ben Boesl and Dwayne McDaniel, Florida International University)	
4:00 PM	Development of Environmental Durability Test Methods for Composite Bonded Joints (Dan Adams , University of Utah)	
4:30 PM	Improving Adhesive Bonding of Composites through Surface Characterization (Brian Flinn , University of Washington)	
5:00 PM	Durability of Bonded Aerospace Structures (Lloyd Smith , Washington State University)	
5:30–7:00 PM	Networking Reception	Texas Ballroom A

Wednesday, March 23, 2016

7:00 AM	Speakers' Breakfast	Texas Ballroom 1
7:00 AM–3:30 PM	Exhibit Hall open	Texas Ballroom A
10:00 AM	JAMS Registration	Texas Ballroom Foyer
12:00–1:30 PM	Luncheon (Exhibit Hall)	Texas Ballroom A

DAMAGE TOLERANCE and ENVIRONMENTAL FACTORS

1:30 PM	Effects of Moisture Diffusion in Sandwich Composites (Mark Tuttle , University of Washington)	
2:00 PM	Failure of Notched Laminates under Out-of-Plane Bending (Mitchell Daniels and John Parmigiani, Oregon State University)	
2:30 PM	Damage Tolerance Testing and Analysis Protocols for Full-Scale Composite Airframe Structures under Repeated Loading (Waruna Seneviratne , NIAR, Wichita State University)	
3:00 PM	Break (Exhibit Hall)	Texas Ballroom A
3:30 PM	Delamination/Disbond Arrest Features in Aircraft Composite Structures (Luke Richard and Kuen Lin, University of Washington)	

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ENVIRONMENTAL FACTORS, CRASHWORTHINESS and AEROELASTICITY

- 4:00 PM Environmental Factor Influence on Composite Design and Certification
(**Waruna Seneviratne**, NIAR, Wichita State University)
- 4:30 PM Impact Damage Formation on Composite Aircraft Structures
(**Hyonny Kim**, University of California–San Diego)
- 5:00 PM Certification by Analysis I and II / Composite Material Modeling
(**Gerardo Olivares**, and Juan Acosta, NIAR, Wichita State University)

RESULTS of the 2015 EVALUATION of JAMS

- 5:30 PM COE JAMS-AMTAS-CECAM Evaluation Report (**Pat Watts**, National Program Director,
FAA Air Transportation Centers of Excellence)
- 6:00 PM Concluding Comments and Wrap-up (**Curtis Davies**, JAMS Program Manager)
- 6:15 PM Adjourn

RESULTS POSTERS:

- Certification of Discontinuous Composite Material Forms for Aircraft Structures, Karen Harban and Mark Tuttle, University of Washington
- Active Flutter Suppression, Eli Livne, University of Washington
- Characterization of the Vulnerability of Composite Aircraft, Waruna Seneviratne, Wichita State University



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