

## AGENDA

## FAA Joint Advanced Materials & Structures (JAMS) Center of Excellence 14<sup>th</sup> Annual Technical Review Meeting May 23–24, 2018

Hosted by AMTAS Long Beach Convention Center, Room 201-A/B Long Beach, CA

## WEDNESDAY, MAY 23, 2018

7:00 a.m.	Registration and Continental Breakfast
8:00 a.m.	<b>Opening Remarks/Welcome</b> , Ahmet Oztekin, JAMS Program Manager; Mark Tuttle, AMTAS Director
8:30 a.m.	Effect of Surface Contamination on Composite Bond Integrity and Durability, Dwayne McDaniel and Gabriela Gutierrez-Duran, Florida International University
9:00 a.m.	Improving Adhesive Bonding of Composites through Surface Characterization, Brian Flinn, University of Washington
9:30 a.m.	Inspection and Teardown of Aged In-service Bonded Repair, Brandon Saathoff, Wichita State University
10:00 a.m.	<b>Durability of Bonded Aerospace Structure</b> , Lloyd Smith, Washington State University
10:30 a.m.	Bond Process Qualification Protocols & Adhesive Qualification Guidance for Aircraft Design and Certification, Upul Palliyaguru, Wichita State University
11:30 a.m.–1:00 p.m	BREAK
1:00 p.m.	<b>CACRC Depot Bonded Repair Round Robin and Process Parameter Evaluation</b> , Royal Lovingfoss, Wichita State University
1:30 p.m.	Development and Evaluation of Environmental Durability Test Methods for Composite Bonded Joints, Dan Adams, University of Utah
2:00 p.m.	Guidelines for Characterization of Repair Materials, Rachael Andrulonis, Wichita State University
2:30 p.m.	FAA Research Requirement on Lightning Strike of Composites, Billy Martin and Alyssa Friend, Wichita State University

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3:00 p.m.	Non-destructive Evaluation methods for Detecting Major Damage in Internal Composite Structures, Francesco Lanza di Scalea, University of California-San Diego
3:30 p.m.	Notch Sensitivity and Damage Tolerance of Composite Sandwich Structures, Marcus Stanfield, University of Utah
4:00 p.m.	<b>Effects of Moisture Diffusion in Sandwich Composites</b> , Mark Tuttle, University of Washington
4:30 p.m.	An Engineering Approach for Damage Growth Analysis of Sandwich Structures Subjected to Combined Compression and Pressure Loading, Shenal Perera, Wichita State University
5:00 p.m.	BREAK
5:30–6:30 p.m.	JAMS-only Discussion (PIs, project participants, cost-share partners, AVS Sponsors, and FAA TC focals should attend)

## THURSDAY, MAY 24, 2018

7:30 a.m.	Registration and Continental Breakfast
8:00 a.m.	Advanced Fiber Reinforced Polymer Materials Guidelines for Aircraft Design Certification Process, Rachael Andrulonis, Wichita State University
8:30 a.m.	Safety and Certification of Discontinuous Fiber Composite Structures, Marco Salviato, University of Washington
9:00 a.m.	Fatigue Damage Growth Analysis of Composites under Variable Amplitude Fatigue, Waruna Seneviratne, Wichita State University
9:30 a.m.	<b>Failure of Notched Laminates under Out-of-Plane Bending</b> , John Parmigiani, Oregon State University
10:00 a.m.	Impact Damage Formation on Composite Aircraft Structures, Hyonny Kim, University of California-San Diego
10:30 a.m.	Polymer-Based Additive Manufacturing Guidelines for Aircraft Design and Certification, Rachael Andrulonis, Wichita State University
11:00 a.m.–1:00 p.m	BREAK
1:00 p.m.	Development of a Building Block Approach for Crashworthiness Testing of Composites, Dan Adams, University of Utah
1:30 p.m.	Crashworthiness Testing & Simulation FY18—Composites & Metallic Biz Jet Sec. Drop, Gerardo Olivares/Luis Gomez, Wichita State University
2:00 p.m.	FAA CSET, CMT, CMfgT, and Adhesive Online Courses— Modifications and Implementation, Suresh Keshavanarayana, Wichita State University
2:30 p.m.	Ceramic Matrix Composite Materials Guidelines for Aircraft Design and Certification, Rachael Andrulonis, Wichita State University
3:00 p.m.	Wrap up/Closing Remarks