



2019 Technical Review Meeting

FAA Joint Advanced Materials & Structures Center of Excellence (JAMS)

Program reviews from:

[COE for Composites and Advanced Materials](#) (CECAM), [Wichita State University](#) AND [COE for Advanced Materials in Transport Aircraft Structures](#) (AMTAS), [University of Washington](#) in conjunction with [SAMPE 2019](#)

May 22-23, 2019

Charlotte Convention Center, 501 S College St, Charlotte, NC 28202

REGISTRATION: www.wichita.edu/research/NIAR/Workshops/jams-2019.php

JAMS registration is free and required.

SAMPE 2019 INFO: www.sampeamerica.org/

Those interested in attending SAMPE, must register with SAMPE in addition to JAMS registration. Exhibit hall passes are free with pre-registration. There is a fee to attend tutorials and technical conferences. <https://www.sampeamerica.org/registration-rates>

HOTEL INFO: www.sampeamerica.org/hotelinfo

Reservation Deadline: April 25

JAMS 2019 TECHNICAL REVIEW AGENDA

WEDNESDAY, MAY 22, 2018

- 7:00 *Registration and Continental Breakfast*
- 8:00 Opening Remarks, Welcome
Ahmet Oztekin, JAMS Program Manager; John Tomblin, CECAM Director
- 8:30 Effect of Surface Contamination on Composite Bond Integrity and Durability
Brian Hernandez, Florida International University
- 9:00 Improving Adhesive Bonding of Composites through Surface Characterization
Brian Flinn, University of Washington
- 9:30 Inspection and Teardown of Aged In-Service Bonded Repairs
Brandon Saathoff, Wichita State University
- 10:00 Durability of Bonded Aerospace Structure
Lloyd Smith, Washington State University
- 10:30 Fatigue Damage Growth Analysis of Composites under Variable Amplitude Fatigue
Waruna Seneviratne, Wichita State University
- 11:00 Guidelines for Formulating and Writing Process Control Documents (PCD) and Process Specifications for Advanced Materials - Royal Lovingfoss, Wichita State University
- 11:30 *Break for Lunch*
- 1:00 Environmental Durability Test Method Development for Composite Bonded Joints
Zachary Sievert, University of Utah
- 1:30 Guidelines for Characterization of Repair Materials
Jeff Gilchrist, Wichita State University
- 2:00 Standardization of Incandescent Ignition Source Detection Methodology for Composite Structure Lightning Testing - Billy Martin and Alyssa Gonzalez, Wichita State University
- 2:30 Non-destructive Evaluation methods for Detecting Major Damage in Internal Composite Structures - Francesco Lanza di Scalea, University of California-San Diego

- 3:00 Damage Tolerance and Notch Sensitivity of Composite Sandwich Structures
Dan Adams, University of Utah
- 3:30 Effects of Moisture Diffusion in Sandwich Composites
Rohith Jayaram, University of Washington
- 4:00 An Engineering Approach for Damage Growth Analysis of Sandwich Structures Subjected to Combined Compression and Pressure Loading - Dr. Vishnu Saseendran, Wichita State University
- 4:30 Advanced Fiber Reinforced Polymer Materials Guidelines for Aircraft Design Certification Process
Rachael Andrulonis, Wichita State University
- 5:00 Safety and Certification of Discontinuous Fiber Composite Structures
Marco Salviato, University of Washington
- 5:30 Adhesive Bond Process Qualification Protocol
Upul Palliyaguru, Wichita State University

THURSDAY MAY 23

- 8:00 *SAMPE Awards Breakfast*
- 9:30 Evaluation of Parameters used in Progressive Damage Models
David Plechaty and John Parmigiani, Oregon State University
- 10:00 Impact Damage Formation on Composite Aircraft Structures
Hyonny Kim, University of California-San Diego
- 10:30 Polymer-Based Additive Manufacturing Guidelines for Aircraft Design and Certification
Rachael Andrulonis, Wichita State University
- 11:00 A Building Block Approach for Crashworthiness Testing of Composites
Dalton Ostler, University of Utah
- 11:30 Certification by Analysis – Full Scale Ditching Analysis
Gerardo Olivares/Luis Gomez, Wichita State University
- 12:00 Ceramic Matrix Composite Materials Guidelines for Aircraft Design and Certification
Matt Opliger, Wichita State University
- 12:30 JAMS-only Discussion
(PIs, project participants, cost-share partners, AVS Sponsors, and FAA TC focals should attend)
- 1:00 *END*

VISITOR INFO: www.charlottesgotalot.com