**2019 Technical Review Meeting**

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

Program reviews from:

[COE for Composites and Advanced Materials](https://www.wichita.edu/research/NIAR/research-centers.php) (CECAM), [Wichita State University](https://www.wichita.edu/research/NIAR/index.php) *AND*

[COE for Advanced Materials in Transport Aircraft Structures](https://depts.washington.edu/amtas/) (AMTAS), [University of Washington](http://www.washington.edu/)
*in conjunction with* [***SAMPE 2019***](https://www.sampeamerica.org/)

**AGENDA**

 **WEDNESDAY, MAY 22, 2018**

**SAMPE Exhibit Hall**

Tuesday May 21

9:30 a.m.-5 p.m.

Wednesday May 22

9 a.m.-4 p.m.

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 Certification by Analysis – Full Scale Ditching Analysis

Gerardo Olivares/Luis Gomez, 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 Inspection and Teardown of Aged In-Service Bonded Repairs

Brandon Saathoff, 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*

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