



SAMPE Conference & Exhibition

FAA's Joint Center of Excellence for Advanced Materials (JAMS)

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The [FAA's Joint Center of Excellence for Advanced Materials \(JAMS\)](#) is led by the Center of Excellence for Composite and Advanced Materials (CECAM) at Wichita State University and the Center of Excellence for Advanced Materials in Transport Aircraft Structures (AMTAS) at the University of Washington. Participating universities will present their research on the following topics; Additive Manufacturing, Crashworthiness, Certification and Qualification Guidelines, Damage Tolerance and Durability, Emerging Technology, and Test Method Development and Evaluation.

Tuesday, May 21

1:00 - 1:30 pm Welcome & Intro

Metal Additive Manufacturing

1:30 - 2:00 pm Joint Metal Additive Database Definition: Baseline Qualification and Expansion Activities [Neville Tay, WSU-NIAR](#)

2:00 - 2:30 pm Effect of Drifts in Key Process Variables within Tolerance on the Mechanical Properties of Ti-6Al-4V Parts [Sajith Soman, Auburn](#)

2:30 - 3:00 pm Surface Integrity of Additively Manufactured Ti-6Al-4V Parts [Erfan Maleki, Auburn](#)

3:00 - 3:30 pm Characterizing Mechanical Property Variability in Ti6Al4V produced Laser Powder Bed Fusion (LPBF) Additive Manufacturing [Dwayne Arola, UW](#)

3:30 - 4:00 pm Evaluating the Criticality of Inherent Anomalies / Defects on the Fatigue Behavior of AM Metallic Parts [Sajith Soman, Auburn](#)

4:00 - 4:30 pm A Qualification Approach for Difficult to Inspect Metal Additive As-Printed Surfaces [Mark Shaw, WSU-NIAR](#)

Wednesday, May 22

Polymer Additive Manufacturing

8:00 - 8:30 am	Polymer-Based Additive Manufacturing Qualification Programs at Wichita State University – National Institute for Aviation Research	Royal Lovingfoss, WSU-NIAR
8:30 - 9:00 am	ULTEM 9085 Post-Qualification Activities	Rachael Andrulonis, WSU-NIAR
9:00 - 9:30 am	Correlation of ULTEM 9085 Physical, Chemical, and Mechanical Properties	Seth O'Brien, OSU

Advanced Materials and Processes

9:30 - 10:00 am	Core Material Qualification Guidelines for Aircraft Design and Certification	Brandon Satthoff, WSU-NIAR
10:00- 10:30 am	Development for Process Specification and Quality Assurance of Slit Tape for Automated Fiber Placement	Alex Martens, WSU-NIAR
10:30 -11:00 am	Thermoplastic Welding Process Qualification Protocols for Aircraft Design and Certification	Mohamed Shafie, WSU-NIAR

Lunch

2:00 - 2:30 pm	Advanced Fiber Reinforced (Thermoplastic) Polymer Composite Materials Guidance (DFC) for Aircraft Design, Certification and Process Control WSU-NIAR	Tomas Lorik, WSU-NIAR
2:30 - 3:00 pm	Safety and Certification of Discontinuous Fiber Composites	Marco Salvatio, Ph.D., UW
3:00 - 3:30 pm	Fatigue Evaluation of Thermoplastic Material Systems	Waruna Seneviratne, Ph.D., WSU-NIAR
3:30 - 4:00 pm	Resin Infused Fiber Reinforced Materials Guidelines for Aircraft Design and Certification	Caleb Saathoff, WSU-NIAR
4:00 - 4:30 pm	Technology Readiness Assessment for Stitched and Unstitched Resin Infused Composites	Wayne Huberty, Ph.D. MSU
4:30 - 5:00 pm	Ceramic Matrix Composite (CMC) Materials Guidelines for Aircraft Design and Certification	Rachael Andrulonis, WSU-NIAR



Salt Lake City
May 17–20, 2024

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[Exhibit](#)

8:30 - 9:00 am	Development of Higher-Level Building Block Testing Standards	Waruna Seneviratne, Ph.D., WSU-NIAR
9:00 - 9:30 am	Evaluation of Aged Structural Bonds on Composite Rotor Blades	Harishankar Nadason, WSU-NIAR
9:30 - 10:00 am	Nanomechanical Characterization of Adhesive Bondlines	Bryan Flinn, UW
10:00- 10:30 am	Impact Damage Tolerance Guidelines for Stiffened Composite Panels	Hyonny Kim, UCSD
10:30 -11:00 am	Correlation Between Effects of Defects on Static and Dynamic Strength Behavior of Composite Materials	Gerardo Olivares, Ph.D., WSU-NIAR

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SAMPE Conference and Exhibition is exclusively dedicated to advanced materials and processes. Produced by the Society for the Advancement of Material and Process Engineering (SAMPE) North America, this event brings together leading companies, engineers, scientists, and professionals from throughout the advanced materials and processes industry.

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