



AGENDA (subject to change)

FAA Joint Advanced Materials & Structures (JAMS) Center of Excellence 10th Annual Technical Review Meeting

March 25–26, 2014

Hosted by AMTAS

University of Washington Campus

Kane Hall, Room 220

Tuesday, March 25, 2014

11:30 AM Registration (Kane 220 Foyer)

12:15 PM Call to Order/Welcome
(**Curtis Davies**, JAMS Program Manager; **Mark Tuttle**, AMTAS Director;
John Tomblin, CECAM Director)

SESSION 1: TESTING & ANALYSIS

12:30 PM Failure of Notched Laminates under Out-of-Plane Bending
(**Imran Hyder & Nasko Atanasov**, Oregon State University)

1:00 Certification of Composite-Metal Hybrid Structures
(**Waruna Seneviratne**, NIAR, Wichita State University)

1:30 Certification of Discontinuous Composite Material Forms for Aircraft Structures
(**Michael Arce & Mark Tuttle**, University of Washington)

2:00 Damage Tolerance and Notch Sensitivity Test Method Development for Sandwich
Composites (**Dan Adams**, University of Utah)

2:30 Break

SESSION 2: BONDING & REPAIR

3:00 Improving Adhesive Bonding of Composites through Surface Characterization
(**Ashley Tracy**, University of Washington)

3:30 Effect of Surface Contamination on Composite Bond Integrity and Durability
(**Tomas Pribanic**, Florida International University)

4:00 Test Method Development for Environmental Durability of Composite Bonded Joints
(**Dan Adams**, University of Utah)

- 4:30 Durability of Bonded Aerospace Structures (**Lloyd Smith**, Washington State University)
- 5:00 CACRC Depot Bonded Repair Round Robin (**Lamia Salah**, NIAR, Wichita State University)
- 6:00–8:00 Dinner (University of Washington Club)

Wednesday, March 26, 2014

- 7:30 AM Continental Breakfast (Kane 220 Foyer)

SESSION 3: DAMAGE, DAMAGE TOLERANCE & ENVIRONMENTAL FACTORS

- 8:00 Delamination/Disbond Arrest Features in Aircraft Composite Structures
(**Luke Richard**, University of Washington)
- 8:30 Fatigue Damage Growth Rate of Sandwich Structures using Single Cantilever Beam (SCB) Test
(**Waruna Seneviratne**, NIAR, Wichita State University)
- 9:00 Dynamic Response of Composite Structures Subjected to Blast Loading
(**Waruna Seneviratne**, NIAR, Wichita State University)
- 9:30 Composite Thermal Damage Measurement with Hand Held FT-IR
(**Tucker Howie**, University of Washington)
- 10:00 Impact Damage Formation on Composite Aircraft Structures
(**Hyonny Kim**, University of California–San Diego)
- 10:30 Break

SESSION 4: CRASHWORTHINESS & AEROELASTICITY

- 11:00 LS-DYNA MAT54 Modeling of the Axial Crushing of Composite Fabric Channel and Corrugated Section Specimens (**Bonnie Wade**, University of Washington)
- 11:30 Certification by Analysis I and II / Composite Material Modeling
(**Gerardo Olivares**, NIAR, Wichita State University)
- 12:00 Development of an Active Flutter Suppression Research Plan
(**Eli Livne**, University of Washington)
- 12:30–1:00 Concluding Comments and Wrap-up (**Curtis Davies** and **Larry Ilcewicz**, FAA)



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