



Welcome!

JAMS/AMTAS Fall 2014 Meeting

Edmonds Conference Center

12 November 2014

Welcome!

- This is the 17th AMTAS Meeting held since 2004
 - The meeting agenda and a list of attendees are available at the registration desk:
 - Fifteen speakers representing 5 universities, The Boeing Company, and the FAA
 - 79 persons pre-registered for the meeting
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Introductions

- Prof. Mark Tuttle, AMTAS Director
 - Prof. Kuen Lin, AMTAS Co-Director
 - Ms. Ellen Barker, Assistant to the Director
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 - Prof. Santosh Devasia, Associate Dean for Research
College of Engineering
University of Washington
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AMTAS Updates

Background and Status



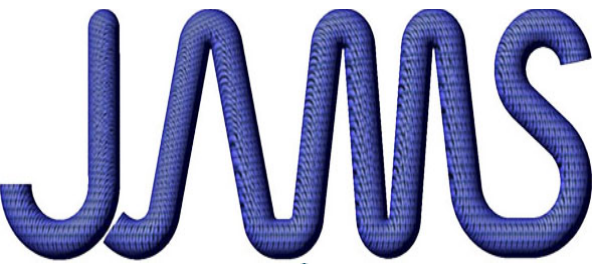
The FAA Center of Excellence Program

- CoE program was initiated in 1990
 - Administered by Dr. Patricia Watts of the W. J. Hughes Research Center (Atlantic City, New Jersey)
 - Eleven CoEs have been established since 1990
 - Five CoEs are currently active:
www.faa.gov/go/coe
 - CoE's are funded in three "Phases" over a total period of 3-10 yrs
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JAMS-AMTAS-CECAM

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- The FAA Joint Advanced Materials and Structures (JAMS) Center of Excellence was formed in 2004 and consists of two university teams:
 - AMTAS ('A'dvanced 'M'aterials in 'T'ransport 'A'ircraft 'S'tructures)
 - CECAM ('Ce'nter for 'C'omposites and 'A'dvanced 'M'aterials)
 - JAMS/AMTAS/CECAM is now in Phase III, set to conclude 15 December 2015
 - A new competition to form a FAA CoE devoted to advanced materials will likely be announced in January 2015
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JAMS CoE Member Schools

AMTAS (Advanced Materials for Transport Aircraft Structures)

- University of Washington, Lead
- Washington State University
- Oregon State University
- Edmonds Community College
- Florida International University
- University of Utah



CECAM (Center for Composites and Advanced Materials)

- Wichita State University, Lead
- Northwestern University
- Purdue University
- Tuskegee University
- University of Delaware
- University of California at Los Angeles





AMTAS Administration

- Curt Davies (FAA W. J. Hughes Research Center, New Jersey) is JAMS Program Manager
 - FAA Technical Monitors – AMTAS projects (Hughes R.C.): Allan Abramowitz, Curt Davies, Dave Galella, Lynn Pham, Dave Westlund
 - Larry Ilcewicz, FAA CSTA, Advanced Composites, (Renton) also helps guide all AMTAS projects
 - Cindy Ashforth, Program Manager, FAA-Renton helps guide FAA Safety Awareness Course Development
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JAMS/AMTAS Meetings

- Annual JAMS meetings
 - Held during spring (~ March-June)
 - Speakers from all 12 JAMS universities
 - The two lead universities (UW and WiSU) alternate as hosts
 - 2014 JAMS Meeting was hosted by UW, 25-26 March, UW campus
 - 2015 JAMS Meeting will be hosted by WiSU, details TBD

 - Annual AMTAS meetings
 - One-day mtg, held during autumn (~ Oct-Nov) in the Pacific Northwest
 - Speakers drawn from AMTAS universities, industry, FAA
 - 79 registrants for today's meeting
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JAMS/AMTAS Meetings

- Agendas and presentations from all past JAMS-AMTAS meetings are available from the AMTAS website:

<http://depts.washington.edu/amtas/>

(follow link to “Events”)

- Summary and presentations from the meeting today will be posted sometime next week (Ellen will send e-mail when site is updated)
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Special thanks to..

- The Boeing Company 
 - Our many additional industrial partners, particularly
 - Hexcel Corporation 
 - Cytec 
 - Toray 
 - General Plastics 
 - Intec 
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Special thanks to..

- The University of Washington:
 - Provost Office (Associate Provost Mary Lidstrom)
 - College of Engineering (Dean Michael Bragg)
 - Department of Aeronautics and Astronautics
(Past Chair Jim Hermansen/Acting Chair Uri Shumlak/
New Chair Tony Waas)
 - Department of Materials Science and Engineering
(Chair Alex Jen)
 - Department of Mechanical Engineering
(Chair Per Reinhall)
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Meeting Agenda is Intended to Foster Discussion (*use Session I to illustrate*)

- 8:45-10:30 am: Session I

8:45–9:05	Improving Adhesive Bonding of Composites through Surface Characterization	Brian Flinn Univ Washington
9:05–9:10	<i>Discussion</i>	
9:10–9:30	Test Method Development for Environmental Durability of Composite Bolted Joints	Dan Adams Univ Utah
9:30–9:35	<i>Discussion</i>	
9:35–9:55	Effect of Surface Contamination on Composite Bond Integrity and Durability	Dwayne McDaniel Florida Int'l Univ
9:55–10:00	<i>Discussion</i>	
10:00–10:30	<i>Industry Feedback</i>	Kay Blohowiak The Boeing Co.

- Please participate in the discussion throughout the day!!!
- Comments or Questions before we begin?

Thanks for attending!
