

Welcome!

JAMS/AMTAS Fall 2017 Meeting

University of Washington
Center for Urban Horticultural

8 November 2017



Welcome!

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- This is the 20th AMTAS Meeting held since 2004
 - The meeting agenda, list of attendees, and a summary of WiFi connection info are all available at the registration desk:
 - Agenda: Twenty speakers representing 5 universities, the Boeing company, and the FAA
 - Attendees: 71 persons pre-registered for the meeting
 - Wi-Fi Info (we didn't pick this!):
 - UW NetID: event0723
 - Password: gVYe;dTAo;pNYe
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AMTAS Updates

Background and Status



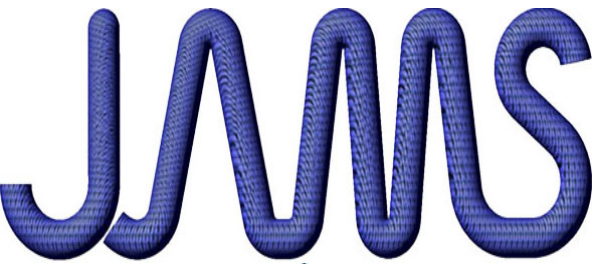
The FAA Center of Excellence Program

- FAA CoE program was initiated in 1990
 - Administered by Dr. Patricia Watts of the W. J. Hughes Research Center (Atlantic City, New Jersey)
 - Twelve CoEs have been established since 1990 (six are active)
 - Additional information: www.faa.gov/go/coe
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JAMS-AMTAS-CECAM

- 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)
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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



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
 - 2017 JAMS Meeting was hosted by WISU, held in conjunction with CMH-17 Mtg, 21-24 March, Salt Lake City, UT
 - 2018 JAMS Meeting will be hosted by UW, location and dates TBD
 - Annual AMTAS meetings
 - One-day mtg, held during autumn (~ Oct-Nov) in the Pacific Northwest
 - Speakers drawn from AMTAS universities, industry, FAA
 - 71 pre-registrants for today's meeting
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JAMS/AMTAS Administration

FAA personnel

- Patricia Watts, CoE National Program Director, W. J. Hughes Research Center, Atlantic City, NJ
 - Ahmet Oztekin, JAMS Program Manager W. J. Hughes Research Center, Atlantic City NJ (Curt Davies and Dave Westlund former Program Managers)
 - FAA Technical Monitors – AMTAS projects (Hughes Res Ctr): Allan Abramowitz, Zhi-Ming Chen, Curt Davies, Dave Galella, Lynn Pham
 - Larry Ilcewicz, FAA CSTA Advanced Composites, and Cindy Ashforth, FAA Senior Technical Specialist, Advanced Composites, Renton, WA....Larry and Cindy help guide all AMTAS projects
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JAMS/AMTAS Administration

UW Personnel

Prof. Mark Tuttle, AMTAS Director

Ms. Ellen Barker, Assistant to the Director

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 (Solvay) 
 - Toray 
 - Bell Helicopters 
 - 3M  Science.
Applied to Life.™

Special thanks to..

- The University of Washington:
 - Provost Office (Vice Provost Mary Lidstrom)
 - College of Engineering (Dean Michael Bragg)
 - Department of Aeronautics and Astronautics
(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 II to illustrate)

9:10-11:00 am: Session II

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|-------------|---|---|
| 9:10–9:30 | Improving Adhesive Bonding of Composites Through Surface Characterization | M. Staiger/R. Taitano Johnson/B. Flinn/UW |
| 9:30–9:35 | <i>Discussion</i> | |
| 9:35–9:55 | Development and Evaluation of Env Durability Test Methods for Composite Bonded Joints | Heather McCartin/
D. Adams/Univ Utah |
| 9:55–10:00 | <i>Discussion</i> | |
| 10:00–10:20 | Effects of Surface Contamination on Composite Bond Integrity and Durability | Ben Boesl/D. McDaniel/FI Int Univ |
| 10:20–10:25 | <i>Discussion</i> | |
| 10:25-10:40 | Coffee Break | |
| 10:40–11:00 | <i>Industry Feedback</i> | Ashley Tracey/
The Boeing Co. |
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- Please participate in the discussion throughout the day!!!
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 - Comments or Questions before we begin?
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Thanks for attending!
