



AMTAS Spring 2006 Meeting

Welcome!

April 11, 2006
University of Washington, HUB Room 108



Spring 2006 Mtg (5th Semi-Annual Meeting)

- 29 Jan '04: 35 attendees
 - 10 Nov '04: 40 attendees
 - 14 April '05: 53 attendees
 - 13 Oct '05: 55 attendees
 - 11 April '06:
 - 53 persons pre-registered
 - ½ day program, due to upcoming JAMS meeting (20-22 June)
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Spring 2006 Meeting Agenda

8:30-9:00	Registration & Coffee	
9:00-9:10	Welcome & Introductions	Mark Tuttle, AMTAS Director
9:10-9:45	AMTAS/JAMS: Status, Activities and Future Plans	Mark Tuttle, AMTAS Director
9:45-10:15	Composite Safety and Certification Initiatives	Larry Ilcewicz, FAA
10:15-10:30	Coffee break	
10:30-10:55	AMTAS education/short course plan	Kuen Lin, AMTAS Co-Director
10:55-11:20	Advanced Materials and Manufacturing Innovation Center (AMMIC) Activities	Jerrilee Mosier, Edmonds CC
11:20-11:45	Tech focus—Nanotechnology	Russ Maguire, The Boeing Co.
11:45-Noon	Wrap-up	



AMTAS Status and Future Plans

- Brief summary: AMTAS projects
 - Federal funding supporting alternate energy
 - Evolving collaboration with University of Manchester
 - Preparations for JAMS meeting
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AMTAS Projects

(Results will be presented at JAMS meeting; June '06)

- Reliability-based Damage Tolerant Composite Design Methodologies (K. Y. Lin, PI)
 - Combined Global/Local Variability and Uncertainty in Integrated Aeroservoelasticity of Composite Aircraft (E. Livne, PI)
 - Improving Adhesive Bonding of Composites through Surface Characterization (B. Flinn, PI)
 - The Effects of Surface Pretreatment on the Degradation of Composite Adhesives (L. Smith, PI)
 - Short-Course Development: Maintenance/Repair of Composite Aircraft Structures (C. Seaton, PI)
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Fed funding supporting alternate energy

- Background:
 - AMTAS must become “self sufficient”
 - Spring '05 AMTAS Mtg: Possible solution is to move towards Regional Center for Composite/Advanced Materials and Manufacturing, supporting multiple industries
 - Autumn '05 Mtg: Ad hoc subcommittee chaired by Rob Albers recommends, among several options, pursuit of alternate energy (especially wind energy)
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Fed funding supporting alternate energy

- April 7: Ms. Sally Hintz, (NW Director, Offices of Sen. Cantwell) provides briefing on federal funding opportunities (slides available)
 - Primary Focus: 2005 Energy Bill and associated programs of
 - EPA
 - USDA
 - EERE (Office of Energy Efficiency and Renewable Energy)
 - DoE has not released guidelines for alternative energy competitive grants...will monitor and respond when guidelines released
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Evolving Collaborations with the University of Manchester

- July 2005: UK Dept of Trade and Industry program announced; goal is to “promote linkages between UK universities and high tech clusters in the US”
 - July-Sept 2005: Andrew Walker of Univ. of Manchester develops/submits proposal (with input from M. Tuttle)
 - November 2005: £1.5 M award to support collaboration between UM and UW/AMTAS
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Evolving Collaborations with the University of Manchester

- Jan/Feb 2006: Video Conferences between UM and UW personnel
 - March 23-24: UM personnel visit UW campus: (Andrew Walker, Philip Withers, Jonathan Cooper, Richard Day)
 - May 12: Mark Tuttle and Ellen Barker (and perhaps others from Boeing?) will attend opening ceremonies of the UM NW Composite Centre
 - Summer 2006: UW Faculty Group (TBD) to visit UM (perhaps in conjunction with Farnborough Air Show, 17-23 July)
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Types of UW-UW Collaboration

- Education:
 - Web-based composite courses for academic credit
 - Composite-related short courses
 - Research:
 - Composite materials characterization
 - 3-D aeroelastic design concepts/tools
 - Low-cost manufacturing processes
 - Market analyses (in conjunction with Business School)
 - People exchange, required to facilitate Education/Research collaborations
 - Undergraduate/graduate students
 - Four UW Tuition waivers received
 - Faculty/staff
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Preparations for JAMS Meeting

- 1st FAA-JAMS 2005 Technical Review Meeting
24-26 May 2005, Wichita, KS
Hosted by Wichita State University
~ 120 attendees

 - 2nd FAA-JAMS 2006 Technical Review Meeting
20-22 June 2006, Seattle, WA
Hosted by the University of Washington
120-150 attendees (?)
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Preparations for JAMS Meeting

- Hotel rooms blocked out (University Inn, Silver Cloud, Travel Lodge)
 - Meeting to be held in Kane Hall, UW campus
 - Newly-renovated theatre-style conference room
 - State-of-art multi-media equipment
 - Coffee breaks/lunch in Walker-Ames Room
 - About 25 presentations (@ 30 min ea)
 - AMTAS and CECAM PI's and students
 - FAA speakers
 - Industry speakers
 - Andrew Walker (U of Manchester)
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Preparations for JAMS Meeting

	Tuesday, June 20, 2006	Wednesday, June 21, 2006	Thursday, June 22, 2006	
AM	NO TECHNICAL MEETING ACTIVITIES	8:00 a.m. Technical presentations continue	9:00 a.m. Technical presentations continue 10:00 a.m. Aviation industry perspectives 11:30 a.m. Review wrap-up	
		12:15 p.m. Lunch	12:00 p.m. End	
PM		1:30 p.m. FAA introductions	1:15 p.m. Technical presentations continue	
		2:45 p.m. Technical presentations begin		
		5:00 p.m. End of session	5:00 p.m. End of session 6:30 p.m. Optional dinner (Dutch treat)	