

NASA National Center for Advanced Materials

PERFORMANCE BULLETIN

at the National Institute for
Aviation Research

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N06-04

Test Panel Fabrication Commitments

In the last few months, the NASA National Center for Advanced Materials Performance at Wichita State University's National Institute for Aviation Research has received commitments from 20 companies willing to fabricate panels for the 2006 material qualification and equivalency programs. As stated in the February NCAMP bulletin, aerospace companies that fabricate test panels may benefit by being able to use the material properties data if equivalency is demonstrated.

The following companies have committed to making test panels:

- Gulfstream Aerospace
- Adam Aircraft Industries
- Texas Composite, Inc.
- ATK Space Systems
- Boeing Helicopters
- Scaled Composites
- Goodrich Aerostructures
- Bombardier Aerospace
- AAR Composites
- Cirrus Design Corporation
- Raytheon Aircraft Company
- Spirit AeroSystems, Inc.
- Cessna Aircraft Company
- Bell Helicopter Textron, Inc.
- Northrop Grumman Corporation
- Israel Aircraft Industries, Ltd.
- General Atomics Aeronautical Systems, Inc.
- Lockheed Martin Aero
- Comtek Advanced Structures
- Bristol Aerospace

NCAMP
NATIONAL CENTER for
ADVANCED MATERIALS
PERFORMANCE



NIAAR
NATIONAL INSTITUTE
FOR AVIATION RESEARCH

NCAMP Technical Conference

The first NCAMP Technical Conference was held May 16 and 17. The knowledge gained from this process will enable NCAMP to move forward in its research and material qualification activities.

Below is a synopsis some of the topics addressed during the conference and the actions that came from those discussions.

- Export restrictions need to be worked to assure advances in databases can be shared universally
 - Uncontrolled data will be available online
 - Controlled data must be requested through NCAMP
- Need to communicate with the NCAMP leadership to gain industry resource commitments in exploring the best relationships with PRI, Nadcap and QPL
 - Talk to Industrial Advisory & Executive Boards for solution
 - Each OEM should specify how much material control can be delegated to PRI/Nadcap
 - NCAMP delegates will attend PRI/Nadcap meetings
- Future charts discussing the AMS slash sheets (that don't allow trade or brand names) should show relationship with a unique material through a QPL reference
- Review advances in LEF development at the Chicago Damage Tolerance and Maintenance Workshop
- Test & data record sheets will be posted to the website
 - Group review and comments
- Proposal for countersink and hole tolerance effects will be posted to the website
 - Group review and comments
- Need to define a process for down-selecting projects in "Areas of Development" with NCAMP steering groups
- Coordinate processing methods and data collection with structural database limits
 - Use findings to recommend a robust processing space and statistical process control suitable for manufacturing
- The value of a Go-To-Meeting/Teleconference has been demonstrated by this event and will be used for NCAMP and Mil-17 in the future
 - Get capability installed or remove limits for those who can't utilize Go-To-Meeting on their computers

All presentations and other information are posted to the WSU NIAR NCAMP website: http://www.niar.wichita.edu/coe/ncamp_media.asp.