

Welcome to...



Session 1-5

Engine Icing Research

Jointly Sponsored By
The Aircraft Icing Research Alliance (AIRA)
And
ASME Aircraft Engine Committee



AIRA

A Brief Overview

Joe Shaw

*Deputy Chair, Executive Steering Committee
Aircraft Icing Research Alliance (AIRA)*



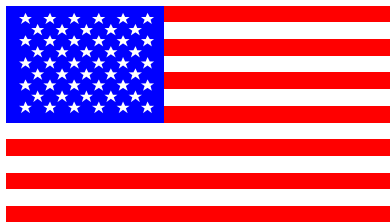
AIRA Mission

*“...to coordinate ... the conduct of **collaborative aircraft icing research** activities that improve the safety of aircraft operations in icing conditions.”*

Let's work together better!

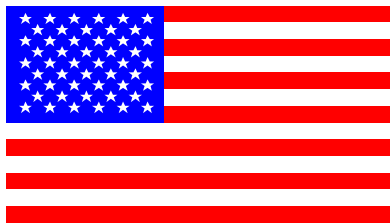
The current AIRA Partners...

- NASA
- FAA
- NOAA
- Environment Canada
- Transport Canada
- Canadian National Research Council (NRC)
- UK Defense Science and Technology Laboratory (DSTL)



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AIRA is seeking to involve more European partners!



AIRA - Aircraft Icing Research Alliance

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News

Updated! AIRA Session at ASME Conference on Propulsion System Icing

The agenda has been posted for AIRA's session on propulsion system icing at the 2007 ASME International IGTI Conference in May.

AIRA Holds Successful Research Implementation Forum

Held January 8 in Reno, NV in conjunction with the AIAA Aerospace Sciences Conference.

AIRA Senior Leadership Holds Business Meeting

June 26-27, 2006 in Boulder, Colorado, hosted by NCAR and NOAA.

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Aircraft icing is the most critical natural hazard affecting the safe operation of aircraft in the northern hemisphere.

While some aircraft are certified for flight into icing conditions, and aircraft operate in icing conditions routinely, a number of outstanding challenges in the understanding of aircraft icing need to be addressed.

AIRA, the Aircraft Icing Research Alliance, was created with the purpose of increasing coordination in aircraft icing research. [Read more about AIRA]

Let's work together better!

Mission

To coordinate... the conduct of collaborative aircraft icing research activities that improve the safety of aircraft operations in icing conditions

Members

- NASA
- Environment Canada
- Transport Canada
- National Research Council, Canada
- FAA
- NOAA
- National Defence, Canada
- DSTL-United Kingdom

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Environment Canada
Environnement Canada
Transport Canada
Transports Canada



National Defence
Défense Nationale



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FAA
NOAA
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Canada
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AIRA's Current Areas of Emphasis

- Exploration of collaborative efforts focused on propulsion system icing**
- Establish a collaborative effort related to rotorcraft icing**
- Explore the need for icing research related to UAV's**
- Increase European involvement in AIRA**

Today's Agenda

Introduction and overview of session (10 minutes)

Description of the Challenge (60 minutes total):

- An Airframer Perspective (20 minutes)
- An Engine Company Perspective (20 minutes)
- Atmospheric Characterization (20 minutes)

Plans to Address the Challenge (50 minutes total)

- Engine Harmonization Working Group (EHWG) Technical Plans (20 minutes)
- Current Experimental Facility Capabilities (10 minutes)
- Facility Requirements and Gaps (10 minutes)
- Proposed AIRA Program to Support Effort (10 minutes)

Open dialogue between presenters and audience (30 minutes)