

International Forum for Aviation Research Overview

Unique and Exciting International Collaboration Forum for Aeronautics Research

January 2015



Statistics of IFAR

Currently **26** aviation research organizations from all over the world are members of IFAR

The current members represent **34,000** researchers working in aviation

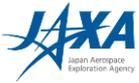


Membership in IFAR is open to national aviation research organizations, including universities active in aviation research, that are (1) non-profit, (2) owned or mainly funded by public governments, and (3) charged by the country or countries in which they are located to conduct such research activities on their behalf. One organization per country is accepted for membership.

Objectives of IFAR



Alternative Aviation Fuels



NASA Falcon Aircraft in Flight Behind DC-8 Aircraft

Effects of alternative fuels on aircraft engine performance, emissions, and aircraft-generated contrails at altitude. Static ground tests and flight campaign to measure using a NASA DC-8, NASA HU-25C, DLR Falcon 20, and NRC-Canada CT-133

- Nine members of IFAR Alternative Fuels Working Group
 - DLR/Germany
 - IAE/Brazil
 - INCAS/ Romania
 - JAXA/Japan
 - KTN/UK
 - NASA/US
 - NRC/Canada
 - ONERA/France
 - TsAGI/Russia
- Activities include information exchanges, flight demonstration, analysis of results
- Benefits of collaboration:
 - Designed a better test that was more elaborate than initially planned by NASA alone
 - Added flight research assets to capture more data for further analysis
 - Enhanced analysis of results
 - Expanded the scope of the analysis through planned further testing of the fuel samples by partners, atmospheric analysis of contrails