

UNITED AVIATION ALTERNATIVE FUELS DISPLAY AT FARNBOROUGH AIRSHOW

ATTRACTS "BUZZ", HIGHLIGHTS NEW SUSTAINABLE FUEL DYNAMIC

Apollo 11 Astronaut, Buzz Aldrin, was but one of many U.S., UK, EU and other international luminaries drawn to the first United Aviation Alternative Fuels display at the U.S. International Pavilion at the Farnborough Airshow July 19 - 23 in London. Visitors ranged from U.S. Senators, State Governors, and high level officials from the Department of Commerce to key UK ministry officials and industry leaders.

The exhibitors exceeded their goals according to Commercial Aviation Alternative Fuel Initiative (CAAFI) Executive Director, Richard L. Altman. "Our number one goal was to provide visibility to CAAFI energy stakeholders on aviation's major stage for 2010. Aviation is a single unified global market and the ideal first mover for a new generation of sustainable fuels," said Altman. An equally important goal was to illustrate that far from being an unachievable dream, the goal of carbon neutral growth for the aviation industry represents a genuine commitment to sustainable aviation. Alternative fuels will be key and the exhibit showed that several significant suppliers and committed buyers are working together to ensure success.

The exhibit sponsors included two fuel buyers, the Defense Logistics Agency-Energy (formerly Defense Energy Support Center (DESC)) and CAAFI's airline sponsor the Air Transport Association of America; and cutting edge energy companies UOP Honeywell, Solazyme and Solena Group. The sponsors and exhibitors were joined by presenters from Airbus, the UK's AEA consultancy, Solena's UK project partner British Airways, and the International Air Transport Association (IATA). The groups laid out their paths to success and described their respective projects to visiting dignitaries, executives, fuel technologists, and university visitors (see CAAFI news dated 19 July).

The show featured significant news from CAAFI sponsor and stakeholders including major announcements concerning:

- The delivery of 1500 gallons of algae-based fuel to the U.S. Navy by fuel company sponsor Solazyme. The delivery marks the single largest production volume of algae-based fuel to date and is proof that Solazyme's algae "in the dark" process is now a major player on the jet fuel scene. UOP which refined the fuel was also present for the announcement ([Solazyme press release](#)).
- The unveiling of Solena's GreenSky project in partnership with British Airways to establish Europe's first waste to jet fuel plant in East London and entering into service in 2014. The plant will convert a variety of waste materials normally destined for landfill into aviation fuel. Solena, British Airways, and consultants Next Energy Capital and Arcadis were present for the announcement ([Aviation International News Online article](#)).
- The signing of a landmark trans-Atlantic agreement by UK AEA consultancy and U.S. based Project Performance Corporation to collaborate on a US Transportation Research Board,

Airport Cooperative Research Program funded project to evaluate the effect that alternative fuels can have in lowering the impact of small particles less than 2.5 microns in diameter (PM 2.5) on air quality at airports. Tests by both the both the U.S. Air Force and NASA in the have shown newly qualified alternative fuels to have significant benefits in reducing quantities of this criteria pollutant. PM 2.5 is included as a pollutant under the National Ambient Air Quality standard in the U.S. and is to be controlled under the Clean Air Act. The majority of U.S. airports are in non-attainment areas for PM 2.5. ([ACRP 02-23](#))

- The announcement by British Airways and Rolls Royce of a second major transatlantic funding award recieved under the recently announced U.S. Federal Aviation Administration (FAA) [CLEEN Program|http://www.faa.gov/news/fact_sheets/news_story.cfm?newsId=11538]. The scientific program targets both laboratory and rig evaluation of multiple alternative fuels and ultimately could lead to the testing of up to two novel fuels on a Rolls Royce powered British Airways 747 aircraft. The FAA is both a lead co-founder and sponsor of the Commercial Aviation Alternative Fuels Initiative (CAAFI) and was a key supporter of the United Alternative Fuels Exhibit at Farnborough ([CAAFI website](#))