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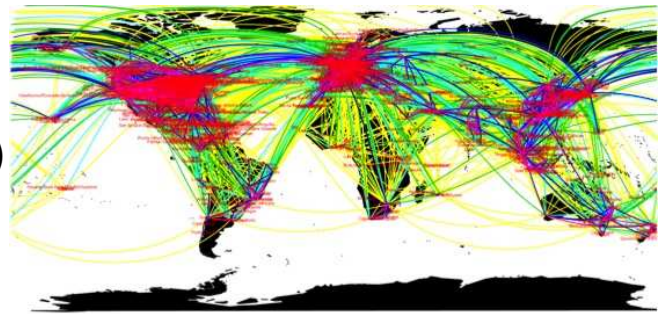
VDI

Verein Deutscher Ingenieure
Hamburger Bezirksverein e.V.
Arbeitskreis Luft- und Raumfahrt

Invitation to an RAeS/HAW lecture in cooperation with the DGLR and VDI

Mitigating the Climate Impact of Aviation – Is Technology Enough?

Dr Antony Evans
University College London (UCL)
Energy Institute



2005 Average number of daily flights
 <1 1-2 2-5 5-10 >10

Lecture
followed by discussion

Entry free!
No registration required!

Date: Thursday, 12th June 2014, 18:00
Location: HAW Hamburg
Berliner Tor 5, (Neubau), Hörsaal 01.12



Since 1960 demand for air travel has grown by more than 7% per year worldwide, and it is forecast to continue to grow strongly, at around 5% per year over the coming decades. As a result, while other sectors are reducing their climate footprint, aviation's is growing, despite significant technological developments over the past decades. What can we do to catch up? Many new fuel saving aircraft technologies are under development, including laminar flow technology, open rotors, blended wing body aircraft, biofuels etc. But will these technologies be adopted by airlines in sufficient numbers without policy intervention? Will this be enough to produce carbon neutral growth, or better? And does carbon neutral growth mean climate neutral growth? Answering these questions requires a systems level analysis, accounting for complex economic effects. This lecture will examine these questions based on analysis from the Aviation Integrated Modelling project.

Tony Evans is a lecturer in Energy and Air Transport at the University College London (UCL) Energy Institute, and has over 15 years of experience in the analysis of air transport systems. He has two Masters degrees from MIT and a PhD from the University of Cambridge. He did postdoctoral research at both MIT and Cambridge before being awarded a postdoctoral fellowship from the NASA Ames Research Center Aviation Systems Division in California. He has also worked as a contractor for NASA and the US Federal Aviation Administration (FAA). He has published widely on air transport systems analysis, including aviation and the environmental, airline operations, airport capacity, and air traffic management.

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<http://hamburg.dglr.de>
<http://www.raes-hamburg.de>
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