



NECTAR Cluster 1 – Networks

Call for abstracts

“Enhancing the network efficiency: air transport and sustainability”

NECTAR Cluster 1 workshop **7-8 May 2015**, Cranfield, United Kingdom

There are many reasons to strive to improve the efficiency of transport networks. While economic reasons used to dominate the debate, environmental reasons are gaining importance but not, for now, social reasons although increasingly equity is seen as another dimension of efficiency. Air transport networks are a special and important case to examine network efficiency. Demand for air transport is steadily growing over time, on average over 4-5% per annum and this has been taking place for several decades and is predicted to continue in the near future. This is fuelled by economic growth and is seen as an important contributor to growth, but air transport requires heavy investment and is costly to operate. Despite unprecedented advances in technology, air transport's adverse effect on the environment is only growing with communities around airports burdened by noise and air pollution, and air transport increasingly is recognised as a growing contributor to anthropogenic climate change. Although prices of air transport have been declining, with the phenomenon of Low Cost Carriers contributing to this trend in recent years, much of the world's population cannot afford to fly and have yet to board a plane. In whatever way efficiency is defined, air transport can and should be more efficient. Air transport is not unique in this respect and lessons to improve the efficiency of air transport networks can be relevant to the rest of the transport system, as much as other transport networks (road and rail for example) can serve as an example for air transport.

In the above context, the NECTAR workshop on “Enhancing the network efficiency: air transport and the environment” organised by the Centre for Air Transport Management at Cranfield University, UK aims to discuss and explore the above issues by forming a forum to exchange the latest knowledge and experiences. A special issue of the *Journal of Air Transport Management* is planned given that a sufficient number of high quality papers are submitted.

All papers on or related to the theme of the workshop (even if only indirectly related to air transport) are welcomed and will be considered.

Topics of interest (with focus on air transport including passenger and freight)

- Transport network planning
- Modelling transport networks and efficiency
- Transport and the environment
- Multimodal network efficiency
- Multimodal traveller experience
- Modal competition and synergy (including Airport surface access)
- Emission Trading Schemes and other environmental charges
- Innovative mobility services and innovative transport systems

- Planning for sustainable transport
- Air transport and city development
- Infrastructure planning and investment
- Regulation
- Risk assessment and prioritisation
- Information technology
- Institutional and socio-political aspects
- Fuel and energy efficiency and management
- Security and resilience

Abstract submission

Abstracts consisting of no more than **350 words**, including the author(s), title(s), affiliation(s), corresponding contact and three keywords to be sent as .doc(x) or .pdf files by e-mail to the **Organising Committee** at c.miyoshi@cranfield.ac.uk by **Tuesday 1st December 2014**. NECTAR workshops invite researchers of any level or background, including PhD students, to present both finished papers or papers still in progress. Notification of abstract acceptance will be sent **by 19th January 2015**.

Organising Committee

Centre for Air Transport Management

School Of Aerospace, Transport and Manufacturing, Cranfield University

- Dr. Chikage Miyoshi, Cranfield University
- Dr Keith Mason, Cranfield University
- Dr. Moshe Givoni, Tel-Aviv University

Scientific Committee

- Prof. karst Geurs, University of Twente
- Prof. Bart Jourquin, Université Catholique de Louvain
- Dr Robin Hickman, University College of London
- Prof. Andrew Goetz, University of Denver
- Dr. Moshe Givoni, Tel-Aviv University

Registration & NECTAR membership

NECTAR membership for 2015 is required for all workshop participants. No other registration fee applies. In addition, one night's accommodation and dinner will be provided for free on Thursday 7th May for one author of each paper. Places are limited so please register early.

To become a NECTAR member, visit: <http://www.nectar-eu.org> and go to the Membership section. For any queries, please contact Dr Thomas de Graaff (nectartreasury@gmail.com). NECTAR membership fees are 70€ for one year subscription (2015) and 130€ for two years (2015-16). Discounted rates of 40€ or 70€ respectively apply to prospective young members (30 years old or younger).

Organised by:



NECTAR is a European based scientific network which emerged from the European Science Foundation Network and was established as an association in 1992. The primary objective is to foster research collaboration and exchange of information between experts in the fields of transport, communication and mobility. These issues are closely intertwined with all aspects of the spatial behaviour of individuals, groups and governments. NECTAR is a multidisciplinary social science network bringing together a wide range of international perspectives on transport and communication challenges and their impacts on society.