



Manchester
Metropolitan
University

Environmental Management at Airports

Sustainability and the Air Transport Industry



This course, delivered by the Centre for Aviation Transport and the Environment (CATE) at Manchester Metropolitan University, aims to increase understanding of both environmental management and sustainability in the context of the air transport industry and airports.

Background

Over the past 50 years, aviation has had a major influence upon national and global socio-economic development, patterns of trade, tourism, migration and political alliances. Despite the current economic climate there are good prospects for air transport growth in the medium term (20-30 years), but environmental issues associated with that growth threaten the longer term sustainability of the industry and the role that aviation will play in the Global economy/society of the second half of the 21st Century. This has far reaching implications for national and international strategic planning.

At a global level, the fact that aviation climate change emissions are increasing, and that aircraft will remain a legacy user of carbon fuels and producer of greenhouse gas emissions, is problematic as there is no technological step-change solution on the horizon and also because of the reliance of businesses upon, and the popularity of air transport with the public.

At a local level the environmental costs associated with airport growth (e.g noise and community disturbance, local air quality, habitat destruction) make it increasingly difficult to secure additional capacity. Some argue that further airport development would put at risk the Governments climate change reduction targets. There is also a need to adapt to the consequences of climate change (e.g. energy and water issues) which both threaten current airport capacity and their potential for growth.

What the course covers

Through the course you will have the opportunity to examine:

- The major environmental impacts associated with air transport
- Their potential to constrain its short and long term growth
- Technological and operational approaches to mitigating those impacts
- Different sectoral views on the concept of sustainability as applied to aviation.
- Arguments for and against aviation growth

Topics covered by the course include:

- Sustainable development of aviation from the perspective of:
 - an airline, an airport, an air traffic management organization, government, NGO, academia.
- The implications of aviation for climate change.
- The impact of climate change upon airports and airlines.
- Carbon management and carbon offsetting
- Environmental capacity at airports
- Management of aircraft noise, local air quality and other community impacts
- Future aerospace technology developments

Putting theory into practice

During the course there is the opportunity to put theory into practice through practical exercises. The course includes a workshop considering visions of the air transport industry in a carbon constrained world of 2050 dependent upon the development of aircraft technology.

Who will benefit from attending this course?

This course will be of interest to a range of professionals, but is particularly suited to:

- Aviation industry professionals – airport, airline and ATM managers
- Central and local government officers with environmental responsibilities
- NGO staff concerned with sustainability, community or environmental issues
- Academics with research interests in aviation, sustainability or environmental issues

Our speakers

Our speakers represent a range of academic and industrial perspectives and will include:

Professor David Lee, Director of CATE, MMU

Professor Callum Thomas, Chair of Sustainable Aviation, MMU

Professor David Raper, Director of Research, MMU

Professor Paul Hooper, Centre for Air Transport and the Environment, MMU

Tim Johnson, Director, The Aviation Environment Federation

Dr David Gillingwater, Loughborough University

Kay Perrin, Thomson Airlines

Alan Melrose MBE, Eurocontrol, Brussels

Getting university credit

This course is accredited through the Faculty of Science and Engineering's 'Open Professional Programme' (OPP). Through the OPP you have the opportunity, after completing an assessment, to obtain credit towards recognised university qualifications. Simply let us know when booking that you would like to receive credits and we will give you details and let you know how to sign up to the OPP.

Dates

26 November – 30 November 2012

Fees

Standard rate	£2500 + VAT
Early bird rate	£2000 + VAT
Academic, NGO	£1500 + VAT

To find out more please contact
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