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## School of Engineering Chair in Aircraft Design

Cranfield University and the School of Engineering have a long standing teaching and research reputation in aerospace engineering with large groups working in aircraft design, air transport, aerospace sciences, aircraft propulsion and aerospace human factors. These are complemented by a National Flying Laboratory Centre that operates two flight test aircraft under the University's Air Operator's Certificate. This work is supported by significant computer aided design, wind tunnel and simulator facilities.

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For an informal and confidential discussion please contact Professor M Patel on 01234 754769 or E: minoo.patel@cranfield.ac.uk.

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Closing date for receipt of applications: Friday 30th April 2010.

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*Valuing People*



## Operating Helicopters Safely in a Degraded Visual Environment

Wednesday 16 – Thursday 17 June 2010  
No.4 Hamilton Place, London W1J 7BQ, UK

The Degraded Visual Environment (DVE) poses a substantial threat to the whole spectrum of helicopter operations. The impact of dusk, night and dawn light levels, low cloud, mist and fog, together with falling and recirculating sand and snow has always eroded operating safety margins. It is timely to review how best procedures, training, regulation and technology can mitigate or remove this type of risk from future helicopter operations.

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## Spring Flight Simulation Group Conference Flight Simulation Technology: Future Potential

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The Royal Aeronautical Society's Flight Simulation Group Conferences are both well established and highly successful. In 2010, it will be 40 years since the first such international symposium. To mark that anniversary, a special Conference will be held to examine the latest flight simulation technology, consider trends, define the challenges and review future opportunities.

The Conference will begin with a session reviewing that first international symposium and discussing progress over the past 40 years – expectations dashed and expectations fulfilled. Subsequent sessions will discuss modelling, visual and motion cueing requirements, environmental representation, simulator testing and maintenance, mission simulation & training and interoperability.

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# The Library and Careers Centre have moved to Farnborough



As the birthplace of British Aviation, Farnborough has a history of aerospace advancement. We are excited to announce the latest in our ongoing developments at the National Aerospace Library, Farnborough.

## National Aerospace Library

The National Aerospace Library (NAL) facility at Farnborough is now bigger and better than ever. We have moved much of our remaining material from Hamilton Place to Farnborough consolidating this magnificent collection. The move has given us the freedom to expand, making the NAL, Farnborough, probably the largest aeronautical archive in Europe. A reading room has been created at Hamilton Place which all members can use.

## The Careers Centre

The Society's Careers Centre has a new home: the National Aerospace Library at Farnborough. We will still be offering the same valued service, from help with CVs, to advice on degrees and training courses but now from our base in Farnborough, although appointments can still be arranged at our London HQ.



The National Aerospace Library and Careers Centre are housed in one of Farnborough's architectural landmarks, the Hub Building, at IQ Farnborough; access to the collection is free. It is owned and operated by the Royal Aeronautical Society (supported by

Hampshire County Council Library and Information Service) whose original collection makes up the majority of the National Aerospace Library collection. The fully licensed cafe bar, Aviators, is located close by on the same floor.

**The National Aerospace Library**, The Hub, Fowler Avenue, IQ Farnborough, Farnborough, Hants GU14 7JP, UK. e-mail: [hublibrary@aerosociety.com](mailto:hublibrary@aerosociety.com)  
Tel: +44 (0)1252 701038, 701039 or 701060

[www.aerosociety.com/nal](http://www.aerosociety.com/nal)

**Opening hours:** Tuesday - Friday, 10:00 - 16:00

**Travel directions:** The National Aerospace Library is a short taxi ride from Farnborough (Main) station (c.35-45 minute train journey from Waterloo station in London). A courtesy bus is also available — please call the Library staff in advance for details. Road directions and the main arterial roads to the IQ Farnborough site are provided on the following website map: [www.inet-farnborough.com/Park/FBP/GettingAround/ByRoad.htm](http://www.inet-farnborough.com/Park/FBP/GettingAround/ByRoad.htm) (satellite navigation: GU14 7JP) (Motorway — M3 Junction 4). Free parking spaces are available just outside the Library.

**The Careers Centre**, National Aerospace Library, The Hub, Fowler Avenue, IQ Farnborough, Farnborough, Hants GU14 7JP, UK. e-mail: [careers@aerosociety.com](mailto:careers@aerosociety.com)  
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# ROYAL AERONAUTICAL SOCIETY

*At the forefront of change*



Founded in 1866 to further the science of aeronautics, the Royal Aeronautical Society has been at the forefront of developments in aerospace ever since. Today the Society performs three primary roles:

- to support and maintain the highest standards for professionalism in all aerospace disciplines;
- to provide a unique source of specialist information and a central forum for the exchange of ideas;
- to exert influence in the interests of aerospace in both the public and industrial arenas.

## **Benefits**

- Membership grades for professionals and enthusiasts alike
- Over 19,000 members in more than 100 countries
- Over 60 Branches across the world
- Dedicated Careers Centre
- Publisher of three monthly magazines
- Comprehensive lecture and conference programme
- One of the most extensive aerospace libraries in the world

The Society is the home for all aerospace professionals, whether they are engineers, doctors, air crew, air traffic controllers, lawyers, to name but a few. There is a grade of membership for everyone — from enthusiasts to captains of industry.

**To join the Society please contact the Director, Royal Aeronautical Society, 4 Hamilton Place, London W1J 7BQ, UK. Tel: +44 (0)20 7670 4300. Fax: +44 (0)20 7670 6309. e-mail: [raes@raes.org.uk](mailto:raes@raes.org.uk)**

The Royal Aeronautical Society has 20 Specialist Interest Group Committees, each of which has been set up to represent the Society in all aspects of the aerospace world. These committees vary in size and activity, but all their members contribute an active knowledge and enthusiasm. The Groups meet four or five times a year and their main activities centre around the production of conferences and lectures, with which the Society fulfils a large part of its objectives in education and the dissemination of technical information.

This work is valuable not only in terms of the Society's charter objectives but also financially, as the conference programme contributes to the Society's annual income.

In addition to planning these conferences and lectures, the Groups also act as focal points for the information enquiries and requests received by the Society. The Groups therefore form a vital interface between the Society and the world at large, reflecting every aspect of the Society's diverse and unique membership.

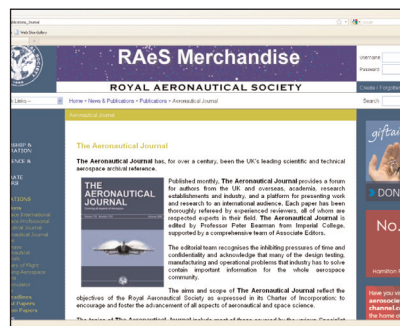
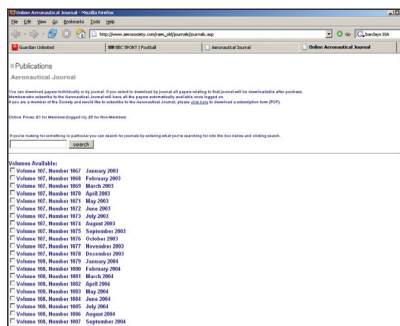
By using the mechanism of the Groups, the Society covers the interests of operators and manufacturers, military and civil aviators, commercial and research organisations, regulatory and administrative bodies, engineers and doctors, designers and distributors, company directors and students, and every other group of professionals who work within aerospace. No other institution represents such a wide and varied range of professions.

The Society membership must ensure that these Groups continue to reflect the constant innovation and development of aviation. This can only be achieved by regular input from members. The Group Committees would welcome new members, and those interested should write to the chairman of the relevant committee c/o the Conference Department.

The Specialist Groups are: Aerodynamics, Air Law, Air Power, Air Transport, Airworthiness & Maintenance, Aviation Medicine, Avionics, Flight Operations, Flight Simulation, Guided Flight, Historical, Human Factors, Human Powered Aircraft, Light Aircraft, Management Studies, Propulsion, Rotorcraft, Space, Structures & Materials and Test Pilots. If you feel you can provide an input, or expand the interests covered by a particular group, please act today and get in touch. Remember, the RAeS is only as influential as the members make it.



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# THE AERONAUTICAL JOURNAL

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**Abstract:** An abstract of around 150 words which summarises the paper and contains no references.

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#### Main Text

**Introduction:** Discuss the *raison d'être* of the work, including previous work by others and how the work being presented aims to advance or complement this.

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1. Miller, P and Wilson, M. Wall jets created by single and twin high pressure jet impingement, *Aeronaut J*, March 1993, **97**, (963), pp 87-100.
2. Green, J.E., Weeks, D.J. and Brooman, J.W.F. Prediction of turbulent boundary layers and wakes in compressible flow, ARC R&M No 3791, 1979.
3. King-Hele, D. *Satellite Orbits in an Atmosphere*, Blackie, Glasgow, 1987.

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These can be up to 2,000 words in length and have no set form. They can be abstracts, comments upon unpublished papers, notes on interim results or a call for further research. They do not have to contain figures or nomenclature and may be in the form of a letter. Manuscripts submitted in this category are reviewed and published more quickly than a full paper.

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