



**The Royal Aeronautical Society**  
**FLIGHT SIMULATION GROUP**

**MOTION AND VISUAL SYSTEMS**  
**(With Particular Emphasis On Military Simulation)**

**Half-Day Meeting — 22 November 1989**

The requirements for, and interactions between, motion and visual cues in flight simulators will be summarised by Wg Cdr Ian Strachan from the MoD Operational Requirements branch who is a test pilot and has flown over 50 types of aircraft and over 50 types of simulator. Wg Cdr Strachan's paper will cover both fixed wing aircraft and helicopters and include all roles from transport to ground attack and air defence fighters. The use of Motion Platforms, g-seats, anti g-suits, instrument and outside-world visual systems will be discussed. This will be followed by papers giving more detail on the perception of motion and visual cues with particular reference to simulation, by Dr Alan Benson of the MoD Institute of Aviation Medicine who will concentrate on motion cueing, and Alan Buffett of EASAMS Limited who is a psychologist who has worked in human factors research and will cover visual cues. Finally, Alan Woodfield, Superintendent of Flight Management 3 Division of RAE Bedford, will look into the 1990s and describe the requirements and potential for flight simulation systems of the future for both the civil, military and research fields. The lectures will cover not only the traditional uses of simulation for checks, procedures and emergencies training, but also its use in tactical tasks include weapon delivery, low level navigation, night operations using NVGs and FLIR, leading to mission rehearsal training. This event will take place at The Royal Aeronautical Society, 4 Hamilton Place, London W1V 0BQ.

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|--------------|---|--------------|---|
| <b>13.30</b> | Registration and Coffee   | <b>15.25</b> | <b>Perception Of Visual Cues</b><br>A. Buffett, EASAMS Limited  |
| <b>13.55</b> | Wg Cdr P. Barrett, Chairman of Flight Simulation Group Committee                              | <b>15.55</b> | <b>Simulation Systems For The Future</b><br>A. A. Woodfield, Superintendent of Flight Management, 3 Division, RAE Bedford |
| <b>14.00</b> | <b>Motion And Visual Cueing</b><br>Wg Cdr I. W. Strachan, Operational Requirements (Air), MoD | <b>16.35</b> | <b>Discussion</b>   |
| <b>14.45</b> | <b>Perception Of Motion Cues</b><br>Dr A. J. Benson, Institute of Aviation Medicine, MoD      | <b>17.20</b> | <b>Close Of Meeting</b>   |
| <b>15.05</b> | Tea   | <b>17.30</b> | <b>Flight Simulation Group Annual General Meeting:</b> To be held in the Handley Page Room.                               |

This programme may be subject to alteration.

**Registration Form**  
**MOTION AND VISUAL SYSTEMS**  
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Please complete and return this form, using one per delegate (photocopies may be used) to: **Ref 111, Conference Office, RAeS, 4 Hamilton Place, London W1V 0BQ.** Payment should be made in sterling (UKL) and a cheque, made payable to the RAeS, must be enclosed with this registration — if this will cause a delay please contact the Conference Office.

Name .....	Registration Fees	
Position .....	(incl copies of the papers, tea and coffee)	
Company.....	Please tick as appropriate	
Address .....	RAeS Member Rate £35.65 (incl £4.65 VAT)	( )
	Non Members Rate £46.00 (incl £6.00 VAT)	( )
	Student/Retired Member — free of charge.	( )
	Membership No (if applicable) .....	

Tel No .....

The fees are net, i.e. exclusive of bank charges. Cancellation charges will apply if a delegate cancels within TWO WEEKS of the event. In a limited number of cases, registration fees may be waived for members who would otherwise be unable to attend. Please contact the Conference Office for further information on 01-499 3515; Fax no: 01-499 6230; Telex no: 262826.