



ROYAL AERONAUTICAL SOCIETY
INTRODUCTION TO THE
FLIGHT SIMULATION GROUP

About the Flight Simulation Group

Flight Simulation is an exciting and integral part of aviation, supporting military and civil training, engineering development, research and manufacturing. It brings together many sciences and technologies, including aeronautical, control and mechanical engineering, propulsion, avionics, human factors, mathematical modelling, computing, and computer graphics.

The Flight Simulation Group [FSG] of the Royal Aeronautical Society provides an international focus of knowledge and debate to advance the benefits, technologies and understanding of flight simulation. It is run by a Committee of Society members, elected annually, currently from Australia, Canada, France, Germany, The Netherlands, Sweden, the UK and the USA.

- The FSG Committee organises two international conferences each year on a wide range of topical simulation subjects. All RAeS conferences are free for RAeS Student Members.
- As an independent body, part of a professional learned society, the FSG often leads international working groups on major issues.
- Currently, at the request of the US and European Authorities (FAA & JAA), the FSG is leading an International Working Group (IWG) to review the complete range of Flight Simulation Training Devices in order to harmonise technical requirements on an international basis.
- In the early 1990s the FSG led the IWG which created a standard for Full Flight Simulators, the highest level of flight simulation training devices. Adopted by the industry, this became the ICAO Manual of Criteria for the Qualification of Flight Simulators. The FSG also produced the "Airplane Flight Simulator Evaluation Handbook" to support the ICAO standard.
- A Working Group led by the FSG compiled an International Data Requirements document for Rotorcraft Simulation.
- In 2007 the FSG inaugurated two annual memorial Lectures, one to Ed Link and the other to Capt. Ray Jones.
- The FSG assists in the judging of an externally organised annual Flight Simulation competition for University students.
- The FSG contributes to the annual RAeS Flight Training Conference and assists in the annual RAeS Ballantyne Lecture for young people held at the Society.
- The FSG co-sponsors the Cranfield University Course 'Introduction to Flight Simulation'.

Web Site and Forum. Anyone interested in flight simulation should register their interest with the Society (via the email address below) and explore the FSG web site (www.raes-fsg.org.uk). This includes an open Forum, to which contributions are welcome from anyone with an interest in the subject.

Young Members. The Young Members Board is represented in the Flight Simulation Group and encourages students and Young Members to take part in the activities of the Group and attend the FSG's simulation conferences. Student Membership is the first step to becoming a Chartered Engineer.

For more information on the activities of the Flight Simulation Group, see the web site above, or contact the Society's Conference Office:

email: marta.collins@raes.org.uk Tel: 0207 670 4342