



# FLIGHT CREW TRAINING MEETING TOMORROW'S CHALLENGES

Tuesday 17th – Wednesday 18th October 2006  
No.4 Hamilton Place, London W1J 7BQ, UK



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# FLIGHT CREW TRAINING

## Meeting Tomorrow's Challenges

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### SYNOPSIS

**The Royal Aeronautical Society is inaugurating an Annual Training Conference to address major developments in aerospace training.**

**This first such Conference, on 17-18 October 2006, will examine the future challenges facing flight crew training. Against a background of tight budgets, it is necessary that training strategies and training systems - from those on the desktop, through part-task trainers and full-flight simulators to training aircraft - continue to exploit evolving technologies. Emerging regulatory requirements may place a different emphasis on various aspects of training delivery, and multi-crew pilot licences and performance-based training systems will require amendments to current philosophies.**

The Conference aims to cover such issues as the potential tensions between quality and quantity in meeting the demand for trainee and instructor pilots over the next 10 years, and whether pilot selection tools and processes are optimised. There are issues concerning training school output standards adequately matching airline entry. Should pilots be matched to their equipment: with intelligent aircraft, how dumb can or should pilots be? Moreover, are we confident that any negative training, such as that gained using computer gaming programmes, is eliminated during pilot training to avoid inappropriate responses later? Does training genuinely benefit from CHIRP and is enough being done to encourage and learn from 'no fault' feedback? There are issues relating to currency and recency in long-haul and super long-haul line operations. General aviation and single-crew operations also pose unique challenges. The Conference will examine the training needed to prepare for non-handling threats such as hypoxia, terrorism in the air and attacks against airborne aircraft from the ground.

Over 100 delegates are expected to attend. For anyone involved with flight crew training - civil and military aircraft manufacturers, sub-contractors and vendors; international, national and regional carriers; training integrators; training providers world-wide; regulatory authorities; researchers and designers; universities; and all other related fields - this is an opportunity that should not be missed.

Synopsis

Register on-line at [www.aerosociety.com/conference](http://www.aerosociety.com/conference)



# FLIGHT CREW TRAINING

## Meeting Tomorrow's Challenges

Day 1: Tuesday 17th October 2006

08:30 Registration and Coffee

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09:10 **Opening Remarks**  
Dave Rowland, *Chairman, Learned Society Board, Royal Aeronautical Society*

09:15 **Society Welcome**  
Gordon Page, *President, Royal Aeronautical Society*

09:20 **Conference Keynote Address**

**Session 1:** Pilot Supply and Demand: Quality or Quantity?  
**Chairman:** Nicole Svatek, *Human Factors Group, Royal Aeronautical Society*

09:45 1 Future Professional Civil Aviator  
Capt David Kistruck, *General Manager Flying, Virgin Atlantic*

10:10 2 Will Flight Academy Pilot Output Standards Continue to Meet Airline Demand?  
Dr Anton Schmidt, *Managing Director, KLM Flight Academy*

10:35 Coffee

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11:05 3 Aircrew Selection for the Modern Royal Air Force  
Gp Capt Dave Fidler, *GCOASC, RAF College Cranwell*

11:30 4 The Use of Computer Tests for Selecting Aircrew Candidates for the German Armed Forces  
Jobst Ott, *Marketing Manager, CAE-Elektronik GmbH*

11:55 5 RAeS FSG IWG: Revision of ICAO Manual 9625 on FSTD Standards  
Donald Irving, *IWG Chairman, Flight Simulation Group, Royal Aeronautical Society*

12:10 Discussion

12:50 Lunch

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**Session 2:** Training Standards: Strategies for Development  
**Chairman:** Peter Moxham, *Chairman, Flight Operations Group, Royal Aeronautical Society*

13:50 6 Uncovering the Real Need: Regulatory, Operational and Training Standards  
Simon Henderson, *Captain, Emirates Airline*

14:15 7 MPL – More than Simply a New Licence for Airline Pilots  
Fergus Woods, *Licensing Director, Joint Aviation Authorities*

14:40 8 Delivering MPL – The Challenges  
Capt Steve Billett, *Executive Director, CTC Aviation Group plc*

15:05 Tea

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15:35 9 Improving Flying Training: A Personal Perspective  
Wg Cdr Ian Brayn Smith, *OC Flying Training Development Wing, Central Flying School*

16:00 10 Training for Automation  
Capt Simon Wood, *Director CAA Flight Operations Research Centre, Cranfield University - TBC*

16:25 Discussion

17:15 Evening Reception

Tuesday 17th October 2006



# FLIGHT CREW TRAINING

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Day 2: Wednesday 18th October 2006

08:30 Registration and Coffee

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**Session 3:** The Impact of Aircraft Design and Non-handling Threats on Training & Regulation  
**Chairman:** Gp Capt Peter Barrett, *Flight Simulation Group, Royal Aeronautical Society*

09:00 11 Can Training Compensate for Difficult Design Features?  
Dr Hazel Courteney, *Head of Research & Strategic Analysis, CAA*

09:25 12 Training for the Interface between Flight Crews and Future Flight Decks  
Dr Kathy Abbott, *FAA Chief Scientific & Technical Advisor, NASA Langley Research Center*

09:50 13 Training for Smoke, Fire & Fumes in Transport Aircraft  
Capt John Cox, *President, Safety Operating Systems*

10:15 Coffee

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10:45 14 Why are my fingertips blue? Training for Non-Handling Threats - Hypoxia  
Mark Chapman, *Head of Training JAA Programs, FlightSafety International*

11:10 15 Training for Non-Handling Threats - The Surface to Air Missile Threat  
Sqn Ldr Steve Hamilton, *TT SH, Tactics and Training Wing, RAF Warfare Centre*

11:25 16 The Surface to Air Missile Threat - Countermeasures Training for the Big Jets  
Sqn Ldr Guy Glaves, *Flt Cdr, No 99 Squadron, RAF Brize Norton*  
Sqn Ldr Andy Wood, *TT AT, Tactics and Training Wing, RAF Air Warfare Centre*

11:50 Discussion

12:30 Lunch

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**Session 4:** Closing the Feedback Loop  
**Chairman:** Capt David Rowland, *Chairman, Learned Society Board, Royal Aeronautical Society*

13:30 17 Corporate Manslaughter – the New Government Bill  
Charles Haddon-Cave QC, *Quadrant Chambers*

13:55 18 Training for Security & the Threat of Terrorism  
Assistant Chief Constable Adrian Leppard, *Kent Police*

14:20 19 Optimising Flight Training Safety Through the Incorporation of Flight Training Devices (FTDS)  
Grant Brophy, *Director Flight Safety & Security, Embry-Riddle Aeronautical University*

14:45 20 Pilots, from where, with what skills and who pays?  
Capt Martin Alder, *Chairman Flight Safety Group, British Airline Pilots Association*

15:10 Discussion

15:20 Tea

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15:45 **Panel Session & Discussion**  
**Chairman:** Capt David Rowland, *Chairman, Learned Society Board, Royal Aeronautical Society*

16:45 Conference Close

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Wednesday 18th October 2006



## SECRETARIAT

### Conference & Events Department Royal Aeronautical Society

No.4 Hamilton Place

London W1J 7BQ, UK

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www: <http://www.aerosociety.com/conference>

## VENUE

### Royal Aeronautical Society

No.4 Hamilton Place

London W1J 7BQ, UK



## HOW TO GET THERE

**Underground:** Nearest stations are Hyde Park Corner, Green Park and Marble Arch.

**By Bus:** Routes 2, 8, 9, 10, 14, 19, 22, 30, 36, 38, 52, 73 and 74 all stop at Hyde Park Corner.

## PARKING

Car parking spaces can be found at either the Four Seasons Hotel, Hamilton Place (Congestion Charge applies) or the NCP Underground Car Park on Park Lane.

## ACCOMMODATION

Flemings Mayfair Hotel is our appointed hotel partner located five minutes walk from the Royal Aeronautical Society. A four star deluxe hotel offering Royal Aeronautical Society discounted rates. To book call Flemings on +44 (0)20 7499 2964 or visit [www.flemings-mayfair.co.uk](http://www.flemings-mayfair.co.uk) quoting Royal Aeronautical Society for preferential rates.

## PROCEEDINGS

Proceedings from this event are free to delegates. If you are unable to attend and would like to purchase a copy, then additional copies can be purchased from **Royal Aeronautical Society**, No.4 Hamilton Place, London W1J 7BQ, UK  
Tel: +44 (0)20 7670 4345  
Fax: +44 (0)20 7670 4349  
Email: [conference@raes.org.uk](mailto:conference@raes.org.uk)

## SPONSORSHIP & EXHIBITION

Please contact the Conference & Events Department for details on exhibiting, sponsorship and insertion of information into delegate packs.

## DISABILITY ACT 2004

The Royal Aeronautical Society is now fully compliant with the above. Ramps are available to help delegates gain access to the building and the lecture theatre. A wheelchair access toilet is available on the ground floor.

## CANCELLATIONS

Substitutions may be made up to the day of the conference - please notify the Conference & Events Department in writing of name changes as soon as possible. If no substitute can be found for the delegate unable to attend, cancellations must be notified in writing to the Conference & Events Department. The following fees will then apply:

- **More than 14 days notice**  
25% of registration fee (ie. 75% refund)
- **14 days or less notice**  
50% of registration fee (ie. 50% refund)
- **5 days or less and Non-attendance**  
100% of registration fee (ie. No refund)