

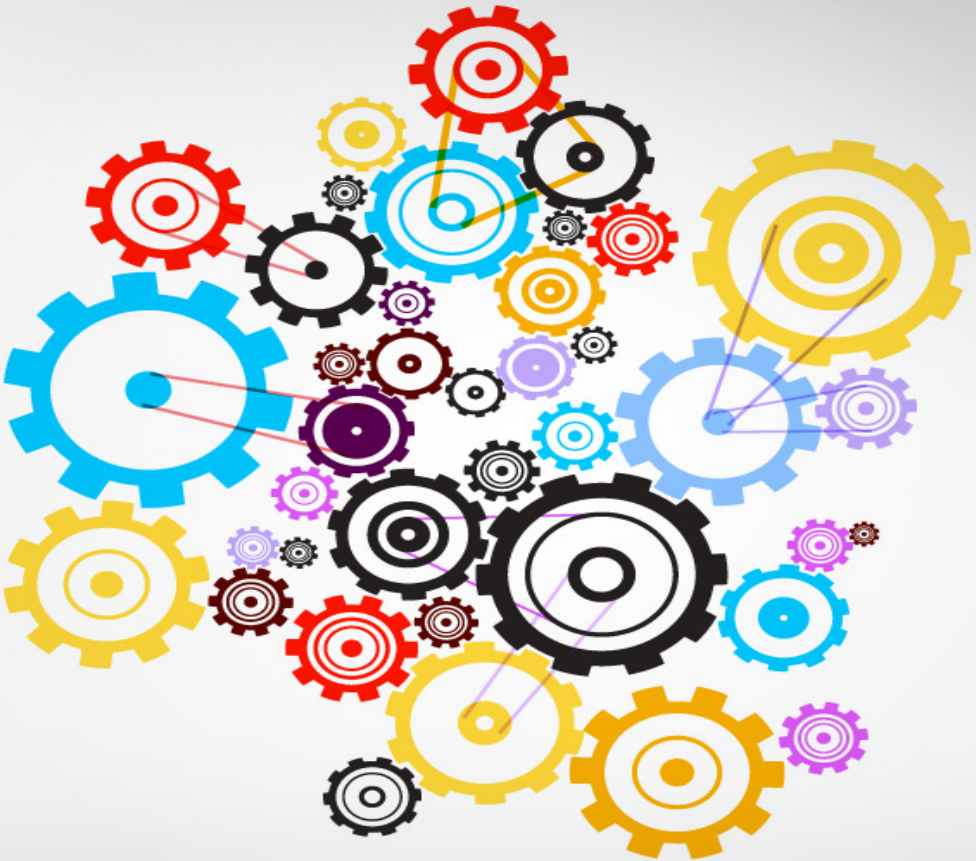
Flight Simulation Conference



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CHALLENGES IN FLIGHT SIMULATION

LONDON / 9-10 JUNE 2015



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TWO DAY CONFERENCE

CHALLENGES IN FLIGHT SIMULATION

Flight Simulation has always been an industry full of significant challenges, spanning as it does the worlds of aircraft, the environment in which they operate and the technologies involved in delivering high quality FSTD training.

Aircraft and their environment are growing ever more complex and the technologies used to simulate them and provide training are constantly evolving. Aircraft, Avionics and FSTD manufacturers are increasingly asserting their Intellectual Property Rights and although the regulatory world moves slowly, changes are happening and more are on the way.

The Conference aims to identify, discuss and agree follow-up action on a number of selected challenges - those aspects of flight simulation which continue to be problematic or inadequate, and those which are emerging as a result of changes in the aviation sectors served by flight simulation.



VENUE

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08:30 **Registration & Refreshments**

09:00 ▶ **OPENING REMARKS**

Conference Chair: Chris Hunter FRAeS, RAeS Flight Simulation Group, UK

09:10 ▶ **KEYNOTE ADDRESS**

Is Flight Simulation Now Just Another Commodity?

Dr David White, Chief Scientist, Aviation & Aerospace, UK

09:30 ▶ **SESSION 1: DATA CHALLENGE**

Chairman: Malcolm Blackwood MRAeS, RAeS Flight Simulation Group, UK

09:35 **(1) Availability of Icing, Gusting and Post Stall Data to Support ICATEE Training**

Keith Williams, Senior Manager, Simulator Support, Boeing Commercial Airplanes, USA

09:55 **(2) Airbus Status on Data & SimPacks**

Eric Fuilla-Westhapt, Flight Training Simulation and Qualification Support, Airbus Pilot Training, France

10:05 **(3) Airbus Approach to Buffett Modelling in Response to UPRT Requirements**

Speaker TBD, Airbus

10:15 **(4) The New Paradigm of Black Boxes**

Xavier Morizot MRAeS, Software Integration Engineer, Lockheed Martin Commercial Flight Training, The Netherlands

10:35 **(5) Challenges of SDP's for Military/ Government Commercial Derivative Programs**

Ryan Long, Boeing Simulator Management Services, The Boeing Company, USA

10:55 **DATA CHALLENGE DEBATE**

11:15 **Networking Break**

▶ **SESSION 2: FSTD QUALIFICATION TESTING**

Chairman: Tari Kaye, RAeS Flight Simulation Group, UK

11:50 **(6) The FSTD QTG**

Brian Hampson FRAeS, President, Training Technology International, Canada

12:10 **(7) The Data Package Provider's View**

Bernard Mattos AMRAeS, Senior Expert in Simulation, Airbus Operations SAS, France

12:20 **(8) The Pilot Perspective**

John O'Halloran, Manager Flight Technical Services, Cathay Pacific Airways, Hong Kong

12:40 **(9) Regulator Viewpoint**

Andy Gillbard, Manager FSTD & Flight Test Engineer, CAA International, UK

12:50 **(10) The Modern QTG - Where the Devil Really is in the Detail**

Bob Earp MRAeS, President, Ashford Technologies, Canada & Malcolm Blackwood MRAeS, Consultant, MB Consultants, UK

13:10 **Networking Lunch**

14:10 **(11) Manufacturer Viewpoint**

Speaker TBD, L-3 Link Simulation & Training, UK

FSTD QUALIFICATION TESTING DEBATE

▶ **SESSION 3: MOTION**

Chairman: Jack Shlien FRAeS, RAeS Flight Simulation Group, UK

15:00 **(12) Objective Motion Cueing Criteria Investigation Based on Three Flight Tasks**

Peter Zaal, Senior Research Engineer, NASA Ames Research Center, San Jose State University, USA

15:20 **Networking Break**

15:50 **(13) ICAO 9625 Objective Motion Cueing Testing: A Practical Experience**

Jose O. Olmedo, Analyst, Indra Sistemas SA, Spain

16:10 **(14) Next Generation Motion System**

Christian Jutteau, Engineer, Thales Training Simulation, France

16:30 **(15) Challenges in Motion Cueing Fidelity**

Dr Mark White, Facility Manager, University of Liverpool, UK & Dr Steve Hodge MRAeS, Simulation Department, BAE Systems, UK

16:50 **MOTION DEBATE**

17:10 **CLOSING REMARKS**

Conference Chair: Chris Hunter FRAeS, RAeS Flight Simulation Group, UK

17:15 ▶ **END OF DAY ONE**

18:00 ▶ **EDWIN A LINK NAMED LECTURE**

Investigation in Simulation

Nathalie de Ziegler, Investigating Officer, Bureau d'Enquêtes et d'Analyses (BEA), France

PROGRAMME - WEDNESDAY 10 JUNE 2015

08:30 **Registration / Tea & Coffee**

09:00 ▶ **OPENING REMARKS**

Conference Chair: Chris Hunter FRAeS, RAeS Flight Simulation Group, UK

▶ **SESSION 4: SIMULATED AIR TRAFFIC CONTROL**

09:05 *Chairman: Hugh Dibley FRAeS, RAeS Flight Simulation Group, UK*

09:10 **(16) Industry Progress & The Challenge of Simulated ATC Environment (SATCE)**

Dr Jeremy Goodman MRAeS, Senior Manager, Product Development, Quadrant Group, UK

09:30 **(17) SATCE - Training Value or Hollywood FX?**

Neil Waterman, Commercial Aviation Director, ASTi, USA

09:50 **(18) SESAR - the State of the Art and Likely Simulation Impact**

Speaker TBD, Airbus

10:10 **(19) Current Usage of ADS-B in Training at British Airways**

David Sproat, Assistant Training Manager Boeing 787, British Airways, UK

10:30 **SIMULATED AIR TRAFFIC CONTROL DEBATE**

10:50 **Networking Break**

▶ **SESSION 5: SIMULATION AS A SERVICE**

11:20 *Chairman: Stefan Sandberg MRAeS, RAeS Flight Simulation Group, UK*

11:25 **(20) NATO and Government Overview of Simulation as a Service**

Mike Mifsud, Principal Engineer - Simulation and Synthetic Environments, Ministry of Defence, UK

11:45 **(21) Simulation in the Cloud - Benefits, Challenges and Lessons Learned**

Andy Fawkes, Academic Liaison, Bohemian Interactive Simulations, UK

12:05 **(22) Towards Coherent Modelling and Simulation as a Service through the Defence Simulation Centre**

Dr Neil Smith, Capability Technical Lead, QinetiQ Training, UK

12:25 **(23) SE Towers**

Keith Ford, R&T Manager, Thales Training & Simulation, UK

12:45 **SIMULATION AS A SERVICE DEBATE**

13:10 **Networking Lunch**

▶ **SESSION 6: MISSION / SITUATIONAL CONTROL**

14:10 *Chairman: TBD*

14:20 **(23) The Psychological Phenomenon of Flow and How to Achieve Maximum Learning Transfer in Training Simulation**

Thomas Ball, Technical Director, Close Air Solutions, UK

14:40 **(24) TBD**

Speaker TBD

15:00 **Networking Break**

15:30 **(25) The F-35 Training System**

Speaker TBD

15:50 **(26) Designing Customised 3D Mobile Aviation Simulation to Prepare for the Future**

Lori J. Brown, Associate Professor, Western Michigan University - College of Aviation, USA

16:10 **MISSION / SITUATIONAL CONTROL DEBATE**

16:30 **CLOSING REMARKS**

Conference Chair: Chris Hunter FRAeS, RAeS Flight Simulation Group, UK

16:35 ▶ **CLOSE OF CONFERENCE**