

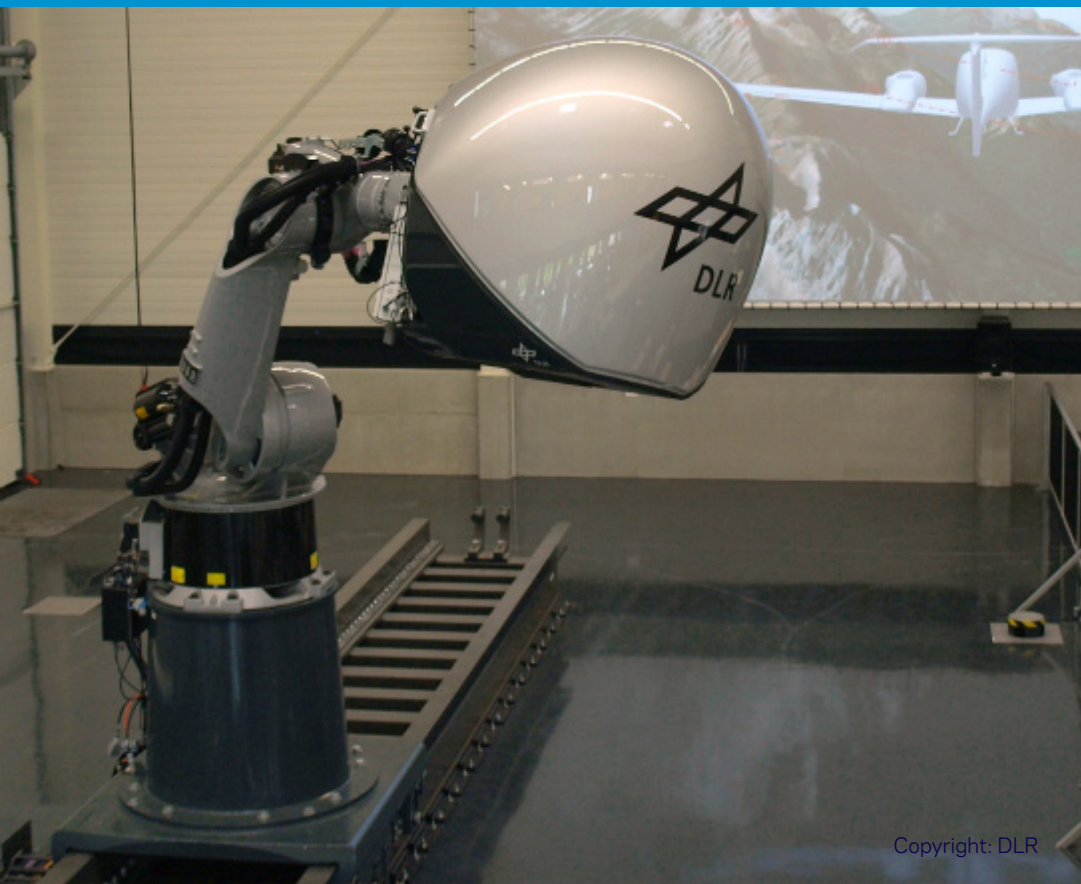
Flight Simulation Group Conference



ROYAL
AERONAUTICAL
SOCIETY

THE FUTURE OF FLIGHT TRAINING DEVICES

LONDON / 12 - 13 NOVEMBER 2014



Copyright: DLR

Sponsors



Link Simulation & Training

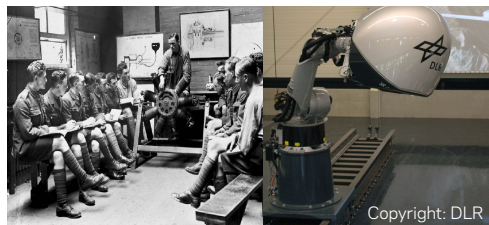


THE FUTURE OF FLIGHT TRAINING DEVICES

Significant progress has been made in the development of fixed and rotary wing part task flight training devices. Their cost effective contribution to the training of flight crews is recognised. International qualification standards have been developed in the civil arena defining required levels of simulation fidelity as a function of training tasks.

Notwithstanding these impressive recent advancements, there remains a number of significant and unique challenges that need to be addressed in order to further enhance the training value and promote wider use of Part Task Trainers (PTT) and Flight Training Devices (FTD) in the training of pilots in civil, military and in particular, the general aviation community.

The objectives of this conference are to examine the recent advances made in the design and use of this class of devices and to identify specific areas of simulation design and data provisioning that requires future enhancement, in order for further training capabilities and fidelity to be realised.



VENUE

Royal Aeronautical Society
No. 4 Hamilton Place
London, W1J 7BQ
T: 44 (0)20 7670 4345

SPONSORS



Supported by:



REGISTRATION FEES: (include refreshments, lunch and access to conference proceedings)

	Fee £	VAT 20% £	Total £
<input type="checkbox"/> Non-Member	595.00	119.00	714.00
<input type="checkbox"/> RAeS Corporate Partner * (inc. Armed Forces)	500.00	100.00	600.00
<input type="checkbox"/> RAeS Member	425.00	85.00	510.00
<input type="checkbox"/> RAeS Baseline Member	180.00	36.00	216.00

*£100 early bird discount available on all bookings made before 26th September 2014 (Excludes Baseline Member rate)

**RAeS Corporate Partners are entitled to the special offer of five places for £2000.00 + VAT

***RAeS Student Affiliate Members may attend free of charge subject to availability.

PROGRAMME - WEDNESDAY 12 NOVEMBER 2014

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

09:00 ► **OPENING REMARKS**

Conference Chair: Tari Kaye, Director, Validation and Regulatory Affairs, TRU Simulation + Training, USA

09:10 ► **KEYNOTE ADDRESS**

Airbus' Concepts on Future Training
Capt David Owens, Senior Director
Flight Crew Training Policy, Airbus,
France

**SESSION 1: THE R&D PERSPECTIVE
IN SHAPING FUTURE FTDs**

Chairman: Dr Sunjoo Advani, RAeS
Flight Simulation Group, UK

09:35 **(1) Flight Models for FTDs**

Prof David Allerton, Emeritus Professor
of Computer Systems Engineering,
University of Sheffield, UK

10:00 **(2) DLR's Air Vehicle Simulator
AVES - Recent and Future Research
Applications**

Holger Duda, Head of Flight Systems,
Flight Dynamics and Simulation
Department, German Aerospace Centre
(DLR), Germany

10:25 **Networking Break**

10:55 **(3) Next Generation Pilot Training with
Robot-Based Flight Simulators**

Tobias Bellmann, Research Assistant,
German Aerospace Centre (DLR),
Germany

11:20 **(4) Research Benefits of DLR's Unique
Simulator**

Frank Drop, PhD Student, Max Planck
Institute, Germany

11:45 **PANEL DISCUSSION**

12:10 **Networking Lunch**

► **SESSION 2: REGULATORY
REQUIREMENTS FOR FUTURE
DEVICES**

Chairman: Gordon Woolley OBE, RAeS
Flight Simulation Group, UK

13:10 **(5) Exploration of Alternate Flight
Simulator Qualification Methods**

Ryan Oltman, Senior Engineer, Bihrl
Applied Research, Inc., USA

13:35 **(6) Title TBC**

Nidal Sammur, Director of
Engineering, FlightSafety
International, USA (TBC)

14:00 **PANEL DISCUSSION**

► **SESSION 3: FUTURE FTD
TECHNOLOGY ADVANCEMENTS**

Chairman: Jack Shlien, RAeS Flight
Simulation Group, UK

14:25 **(7) The Missing Element of Flight
Simulation**

Michael Mayrhofer, Product
Technology Manager & Chris Roberts,
Consultant, AMST-Systemtechnik
GmbH, Austria

14:50 **(8) Of Dinosaurs and Small Furry
Mammals**

Andrew Martin, Independent
Consultant, Aitoff Ltd, UK

15:20 **Networking Break**

15:50 **(9) Training and Simulation in a More
Autonomous and Robotic Future**

Andy Fawkes, Director, Think
Company Limited, UK

16:15 **(10) Furthering the Fidelity of
Human-in-the-Loop Helicopter
Flight Research Simulators**

Sylvain Manso, Research Engineer,
Defence Science & Technology
Organisation (DSTO), Australia

16:40 **(11) Operational Training - the
Technology and Affordability
Challenges**

Mike Southworth, Business
Development, BAE Systems, UK and
RAeS Flight Simulation Group, UK

17:05 **PANEL DISCUSSION**

17:30 **CLOSING REMARKS**

Conference Chair: Tari Kaye, Director,
Validation and Regulatory Affairs,
TRU Simulation + Training, USA

17:35 ► **END OF DAY ONE
Followed by a Networking Reception**

PROGRAMME – THURSDAY 13 NOVEMBER 2014

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

09:00 ▶ **OPENING REMARKS**

Conference Chair: Tari Kaye, Director, Validation and Regulatory Affairs, TRU Simulation + Training, USA

▶ **SESSION 4: FUTURE TRENDS IN CIVIL FLIGHT SIMULATION**

Chairman: Dave Parkinson, RAeS Flight Simulation Group, UK

09:10 **(12) Use of Lower Level Devices in British Airways' Pilot Training**

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

09:35 **(13) Outsourcing ATC, Traffic and Failure Management**

Mark Cioffi, VP Commercial Operations, PilotEdge, USA

10:00 **(14) Leveraging Multiple Technologies To Improve Pilot Training**

Caleb Taylor, ProFlight, a TRU Simulation + Training Company, USA

10:25 **Networking Break**

10:55 **(15) The Second Dimension of Flight Simulation**

Jerry Gregoire, Founder and Owner, Redbird Flight Simulations Inc, USA

11:20 **PANEL DISCUSSION**

▶ **SESSION 5: ENHANCING TRAINING REALISM OF FUTURE FTD'S**

Chairman: Hugh Dibley, RAeS Flight Simulation Group, UK

11:45 **(16) Imparting the "Soft Skills" of Aviation in Simulated Flight**

Darragh Owens, Flight and Ground Instructor, Atlantic Flight Training Academy, Ireland

12:10 **(17) A 'Decision-Making' Simulator**

Gordon Woolley OBE, RAeS Flight Simulation Group, UK

12:35 **Networking Lunch**

13:35 **(18) The Place of the FTD in the Overall Training Progression**

Ian Strachan, Editor, ETSA News, UK and RaeS Flight Simulation Group, UK

14:00 **(19) How Much Upset Prevention and Recovery Training is Possible in Fixed-Base Simulation?**

Dr Sunjoo Advani, President IDT, Chairman of ICATEE, The Netherlands and RAeS Flight Simulation Group, UK & Capt. Clark McNeace, Co-owner, Aviation Performance Solutions, USA

14:25 **(20) How to Address Civil Operational Training Needs for New FTD's?**

Joel Flinois, Product Line Manager, Helicopter Simulation, Thales Training & Simulation, France

14:50 **Networking Break**

15:20 **(21) Motion Cueing - Baby or Bathwater?**

Dr Sunjoo Advani, President IDT, Chairman of ICATEE, The Netherlands and RAeS Flight Simulation Group, UK

15:45 **(22) New Training Concepts for Ab-initio Pilots**

Erik Duijkers, Managing Director, EPST European Pilot Selection and Training, The Netherlands

16:10 **PANEL DISCUSSION**

16:35 **CLOSING REMARKS**

Conference Chair: Tari Kaye, Director, Validation and Regulatory Affairs, TRU Simulation + Training, USA

16:45 ▶ **CLOSE OF CONFERENCE**