

Flight Simulation Group Conference



ROYAL
AERONAUTICAL
SOCIETY

MISSION TRAINING AND FLIGHT SIMULATION

TECHNOLOGY, CONCEPTS AND
COLLABORATION

LONDON / 12 - 13 JUNE 2013



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Link Simulation & Training



A TWO DAY CONFERENCE

MISSION TRAINING AND FLIGHT SIMULATION

TECHNOLOGY, CONCEPTS AND COLLABORATION

This Flight Simulation Conference will provide an insight into mission training needs and solutions, through keynote presentations and focused sessions that address the mission oriented training requirement, the developing NATO environment of Mission Training via Distributed Simulation, a review of the Live and Synthetic balance required in mission training and discussions of the fidelity requirements for mission training and enabling technologies.

A dedicated session will address mission training in the Swedish Air Force, illustrating how one nation supports its pilots through technology and what it expects as the future direction of operational pilot training and mission simulation.

The Conference will provide a reminder that 'mission training' is not solely a military topic and will draw on the experience and expertise of a wide spectrum of training specialists covering various aspects of mission training and developing emerging technologies for both fixed and rotary wing aircraft.



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VENUE

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

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Link Simulation & Training



THALES

Supporters



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	160.00	32.00	192.00

*RAeS Corporate Partners are entitled to the special offer of five places for £2,000 + VAT
RAeS Student Affiliate Members may attend free of charge subject to availability.

FOR MORE INFORMATION AND TO REGISTER www.aerosociety.com/events

DAY ONE PROGRAMME - 12 JUNE 2013

08:30 **Registration and Refreshments**

09:00 **Opening Remarks**

Conference Chairman: Steve Adlem, Director, Integrated, Collective and Embedded Training Systems & RAeS Flight Simulation Committee

09:10 **KEYNOTE ADDRESS**

Air Cdre Mike Jenkins, Head of Transformation, Joint Forces Command

▶ **SESSION 1: THE NATO CONTEXT**

Chairman: Goran Ancker, Technical Fellow, Saab & RAeS Flight Simulation Committee

09:35 **(1) The NATO Mission Training through Distributed Simulation (MTDS) Challenge - The Operational View**

Timothy James, Business Development Manager, Lockheed Martin Mission Systems and Training, UK

10:00 **(2) The NATO Mission Training through Distributed Simulation (MTDS) Challenge - The Technical View**

Fernand Fafard, Senior Expert, System Simulator Development, Cassidian, Germany

10:25 **(3) Experience and Developments in the NATO Distributed Training Environments**

Stefan Sandberg, President, Pitch Technologies, Sweden

10:50 **Panel Discussion**

11:15 **Networking Coffee Break**

▶ **SESSION 2: SWEDISH PERSPECTIVES ON MISSION TRAINING**

Chairman: Barry Tomlinson, Simulation Consultant, BT Associates & RAeS Flight Simulation Committee

11:45 **SESSION KEYNOTE**

Lt Col Jan Svetoft Friesen, SWAF Unit Manager, Swedish Air Force Combat Simulation Center, Sweden

12:10 **(4) Current and Future Swedish Air Mission Training**

Dr Martin Castor, Chief Scientist, GEISTT AB, Sweden & Jonathan Borgvall, Principal Scientist, GEISTT AB, Sweden

12:35 **(5) Operational Evaluation through Mission Simulation for Development of the Gripen Fighter**

Jonas Jeppsson (RET Mj SwAF), Operation Analyst, Saab, Sweden

13:00 **Networking Lunch**

14:00 **(6) Harmonising Flight Simulation Infrastructure FLSC / Saab Common Architecture**

Goran Ancker, Technical Fellow, Saab, Sweden

14:25 **Panel Discussion**

▶ **SESSION 3: ENABLING TECHNOLOGIES 1**

Chairman: Jack Shlien, RAeS Flight Simulation Committee

14:50 **(7) Integrating Gesture Recognition for Flight Deck Officer Training**

Ben Webb, Simulation & Training Division Project Manager, Systems Engineering & Assessment, UK

15:15 **Networking Tea Break**

15:45 **(8) Expanding Virtual Mission Training via Low-Cost Head-Tracking Augmentation**

Luan Le-Ngoc, Student, Loughborough University, UK

16:10 **(9) Tactical Training with Authentic Imposed Acceleration**

Dr Geoff McCarthy, Consultant, Environmental Technics Corporation, USA

16:35 **Panel Discussion**

17:00 *End of Day 1*

18:00 **EDWIN A LINK LECTURE
What Comes First - The Aeroplane or the Simulator?**

DAY TWO PROGRAMME - 13 JUNE 2013

08:30 **Registration and Refreshments**

09:00 **Opening Remarks**

Conference Chairman: Steve Adlem, Director, Integrated Collective & Embedded Training Systems Ltd & RAeS Flight Simulation Committee

09:10 **KEYNOTE ADDRESS**
Air Ambulance - 'Mission Training Not Just for the Military'

Gp Capt Keith Ifould, Commercial Director, RAF Museum, UK

▶ **SESSION 4: ENABLING TECHNOLOGIES 2**

Chairman: Mike Southworth, Business Development Manager, BAE Systems & RAeS Flight Simulation Committee

09:30 **(10) A Collaborative Simulation Environment for Investigating Aircraft-Ship Operations**

Dr Steve Hodge, Senior Simulation Engineer, BAE Systems, UK

09:55 **(11) Requirements for Pilots and Operator Training Procedure and FSTD Performance for Helicopter Operation with External Load**

Dr Vladimir Shibaev, Director of the Aviation Certification Centre, Central Aerohydrodynamics Institute, Russia

10:20 **(12) Remote Operator Terminal Design for use in a Real-Time Distributed Simulation Environment**

John Davis, Postgraduate Researcher, University of Liverpool, UK

10:45 **Panel Discussion**

11:05 **Networking Coffee Break**

▶ **SESSION 5: TARGETING FIDELITY**

Chairman: Gordon Woolley OBE, Tactical Control Centre Programmer, Serco & RAeS Flight Simulation Committee

11:35 **(13) An Operations and Policy Perspective to Simulation Technology**

Andy Fawkes, Director, Thinke, UK

12:00 **(14) The High Value Benefits of Full Mission Simulators in Air Operation Training in Terms of Tactical Training and Budget**

Erik Heinzmann, Operational Factor Senior Manager, Eurofighter Jagdflugzeug, Germany

12:25 **(15) A Call for Infidelity**
Andrew Martin, Independent Consultant, Aitoff, UK

12:50 **Discussion Panel**

13:10 **Networking Lunch**

▶ **SESSION 6: THE TRAINING BALANCE**

Chairman: Dave Parkinson, Consultant, Training Systems Engineering & RAeS Flight Simulation Committee

14:10 **(16) Mission Training - A Blended Solution**

Mike Dobson, Mission Training Business Development, BAE Systems, UK & Alison Heminsley, Head of Modelling & Simulation, BAE Systems, UK

14:35 **(17) The Realities of the Live Synthetic Blend**

Sqn Ldr Alistair Allsop, Instructor Pilot, RAF, UK

15:00 **Networking Tea Break**

15:30 **(18) Insights into Changing Live / Synthetic Balance**

Dick Eastment OBE, Director Reastment Consulting Ltd, UK & Hashim Hassan, Principal Analyst, Dstl, UK

15:55 **(19) The Mission Training Instructor**
Chris Mullen, OC Rotary Wing Operational Evaluation and Training Unit, RAF, UK

16:20 **Panel Discussion**

16:40 **CLOSING REMARKS**

17:00 **CLOSE OF CONFERENCE**