Flight Simulation Conference

ROYAL AERONAUTICAL SOCIETY

INNOVATION IN TECHNOLOGY, TRAINING PRACTICES AND THE IMPACT OF REGULATORY CHANGE

BOEING CAE LEONARDO THALES L-3 Commercial Training Solutions Shell Aviation

DAY ONE - TUESDAY 12 JUNE 2018

Time	Session
08:30	**Registration and Refreshments**
09:00	**WELCOME & OPENING REMARKS** **Speaker:** *Chris Hunter FRAeS, Company Director, Hunter Simulation, RAeS Flight Simulation Group*
09:05	**1) HISTORY OF FLIGHT SIMULATION** **Speaker:** *Barry Tomlinson FRAeS, Flight Simulation Group, Royal Aeronautical Society*

REGULATORY WORKSHOP: BILL BOEING LECTURE THEATRE

SPONSOR INDUSTRY SHOWCASE: HANDLEY PAGE ROOM

Time	Session	Time	Session
09:35	**2A) HOW FSTD ARE VALIDATED AND QUALIFIED** **Speaker:** *Keith Ross MRAeS, FSTD Technical Inspector, CAA*	09:40	**2B) CAE INDUSTRY BRIEFING**
10:00	**3A) HOW TO UNDERSTAND OMCT TESTS AND ANALYSE THEIR RESULTS** **Speaker:** *Dr Sunjoo Advani FRAeS, President, IDT Engineering*	10:00	**3B) BOEING INDUSTRY BRIEFING**
10:20	**Networking Refreshment Break**		
11:00	**4A) LATEST REGULATORY DEVELOPMENTS** **Speaker:** *Andrew Gillbard ARAeS, Simulator and Standards Specialist, Boeing UK Ltd*	11:00	**4B) LEONARDO INDUSTRY BRIEFING**
		11:20	**5B) THALES INDUSTRY BRIEFING**
11:40	**5A) BOEING DATA PACK ROADMAP** **Speaker:** *Keith Williams, Senior Manager, Simulator Support, Boeing Commercial Airplanes*	11:40	**6B) L-3 CTS INDUSTRY BRIEFING**
11:50	**6A) AIRBUS DATA PACK ROADMAP** **Speaker:** *Eric Fuilla-Weishaupt, Flight Training Simulation & Qualification Support, Airbus S.A.S*		
12:00	**Networking Lunch Break**		

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SESSION ONE: REGULATORY ISSUES
Speaker: *Bernard Mattos FRAeS, RAeS Flight Simulation Group*

13:15   **7) INTRODUCTION TO REGULATORY ISSUES**
Speaker: *Chris Hunter FRAeS, Company Director, Hunter Simulation, RAeS Flight Simulation Group*

13:20   **KEYNOTE**
Speaker: *Georges Rebender, Head of the EASA Aircrew and Medical Department*

13:40   **8) THE USE OF ACCIDENT INVESTIGATION DATA IN IMPLEMENTATION OF NEW REGULATORY REQUIREMENTS**
Speaker: *Dennis Crider, Chief Technical Advisor, Vehicle Simulation, National Transportation Safety Board*

14:00   **9) EXPERIENCE FROM IMPLEMENTING UPSET PREVENTION AND RECOVERY TRAINING**
Speaker: *Jeff Schroeder FRAeS, Chief Scientific and Technical Advisor, Federation Aviation Administration*

14:20   **10) EXPERIENCES OF FSTD ENHANCEMENT USING TYPE-EXEMPLAR STALL MODELS**
Speaker: *David Gingras FRAeS, Vice President, Bihrle Applied Research Inc*

14:40   **PANEL DISCUSSION**

15:00   **Networking Refreshment Break**

15:40   **10) THE SIMULATION AND INTEGRATION OF REAL-TIME WAKE VORTEX TURBULENCE IN A SIMULATOR USING SIMULINK CODE**
Speaker: *Daniel Shinners, Aviation Engineer, AXISFlight Training Systems GmbH*

16:00   **11) TRAINING AGAINST STARTLE AND SURPRISE: USING UNPREDICTABILITY AND VARIABILITY IN SIMULATOR-BASED PILOT TRAINING**
Speaker: *Annemarie Landman, PhD Student, Delft University*

16:20   **12) IS THE WORLD OF REGULATED SIMULATION TRAINING DEVICES READY FOR MINIMUM VIABLE PRODUCTS?**
Speaker: *David Head, Head of Customer Marketing, Thales*

16:40   **13) CERT-BY-ANALYSIS USING SIMULATION – BOEING STATUS**
Speaker: *Paul Bolds-Moorehead MRAeS, 747/777/787 Stability & Control Technical Lead Engineer, Boeing Commercial Airplanes*

17:00   **PANEL DISCUSSION**

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17:20 **CLOSING REMARKS**
Speaker: *Chris Hunter FRAeS, Company Director, Hunter Simulation, RAeS Flight Simulation Group*

17:30 **END OF DAY ONE**

17:30 **REGISTRATION AND REFRESHMENTS**

18:00 **EDWIN A LINK LECTURE**
Speaker: *Air Vice Marshal Bruce Hedley MBE MA RAF, Director Joint Warfare, Joint Forces Command*

19:00 **NETWORKING RECEPTION**

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DAY TWO - WEDNESDAY 13 JUNE 2018

08:30   **Registration and Refreshments**

09:00   **WELCOME & OPENING REMARKS**
Speaker: *Chris Hunter FRAeS, Company Director, Hunter Simulation, RAeS Flight Simulation Group*

SESSION TWO: TRAINING EFFECTIVENESS~
Session Chairman: *Gordon Woolley FRAeS, RAeS Flight Simulation Group*

09:05   **14) INTRODUCTION - ANALYSING HUMAN PERFORMANCE- SUMMARY OF SALIENT POINTS OF IPTA HUMAN PERFORMANCE WORKSHOP**
Speaker: *Gordon Woolley FRAeS, RAeS Flight Simulation Group*

09:25   **15) EBT AND ABLE (AVIATION BLENDED LEARNING ENVIRONMENTS)**
Speaker: *Capt Andy Mitchell, CEO, Use Before Flight*

09:50   **16) SAFETY MANAGEMENT SYSTEMS IN CORPORATE AVIATION TRAINING**
Speaker: *Stan Medved, Director, Corporate Aviation, Shell Aircraft Limited*

10:15   **Networking Refreshment Break**

10:45   **17) TBC**

11:10   **18) BEYOND FREEZE AND RESET: OBJECTIVELY ASSESSING CREW INTERACTION WITHOUT INTERRUPTING TASK PERFORMANCE**
Speaker: *Jerome Bresee FRAeS, Director, Human Systems, Vocavio - Communication Dynamics*

11:35   **PANEL DISCUSSION**

12:05   **Networking Refreshment Lunch**

SESSION THREE PART ONE: IMPACT OF NEW TECHNOLOGIES: GAMING, BIG DATA AND ARTIFICAL INTELLIGENCE
Session Chairman: *Steven Hodge MRAeS, Senior Simulator Engineer, BAE Systems (Operations) Ltd*

13:15   **19) INTRODUCTION TO IMPACT OF NEW TECHNOLOGIES**
Speaker: *James Kenny MRAeS, Managing Director, Cursive Simulation, RAeS Flight Simulation Group*

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13:20   **KEYNOTE: GAMING TECHNOLOGY IN FLIGHT SIMULATION**
Speaker: *Oliver Arup, VP Product Development, Bohemia Interactive Simulations*

13:40   **22) SIMULATION FOR DEVELOPING AND TESTING AUTONOMOUS VEHICLE AI**
Speaker: *Ashish Kapoor, Principal Researcher and Research Manager, Microsoft Research*

14:00   **23) THE REALITY OF VIRTUAL AND AUGMENTED REALITY WITHIN SIMULATION**
Speaker: *Chris Hepburn, Senior Simulation Engineer, BAE Systems*

14:20   **24) VISUAL QUALIFICATION REQUIREMENTS FOR HEAD-MOUNTED DISPLAYS**
Speaker: *David Emig, Principal Display Systems Engineer, Flight Safety International*

14:40   **PANEL DISCUSSION**

15:00   **Networking Refreshment Break**

SESSION THREE PART TWO: IMPACT OF NEW TECHNOLOGIES: GAMING, BIG DATA AND ARTIFICAL INTELLIGENCE
Session Chairman: *James Kenny MRAeS, Managing Director, Cursive Simulation, RAeS Flight Simulation Group*

15:30   **25) IT'S BIG DATA BUT WHERE IS IT? - TOWARDS AN ENTERPRISE APPROACH TO TRAINING DATA AND ANALYTICS**
Speaker: *Andy Fawkes MRAeS, Academic Liaison, Thinke Company Limited*

15:50   **26) PRESENT AND FUTURE IMPACT OF VIRTUALISATION OF SIMULATION**
Speaker: *Matt Coppinger, Director, End User Computing, VMWare*

16:10   **27)LATEST DEVELOPMENTS AND THE FUTURE OF FLIGHT SIMULATION ENTERTAINMENT SOFTWARE**
Speaker: *Stephen Hood, Executive Producer, Dovetail Games*

16:30   **28)CYBER TRAINING FOR AIRCREW**
Speaker: *Prof Klaus Bengler & Patrick Gontar, Technical University of Munich*

16:50   **PANEL DISCUSSION**

17:10   **CLOSING REMARKS**
Speaker: *Chris Hunter FRAeS, Company Director, Hunter Simulation, RAeS Flight Simulation Group*

17:15   **END OF DAY TWO**