



STRIVING FOR EFFECTIVENESS IN FLIGHT SIMULATION

DAY ONE - TUESDAY 13 JUNE 2017

08:30 **Registration and Refreshments**

09:00 **WELCOME & OPENING REMARKS**

SESSION ONE: BENCHMARKING: SETTING THE STAGE

Session Chair: *Dr Sunjoo Advani FRAeS, President, International Development of Technology*

09:10 **1) THE CONCEPT OF BENCHMARKING**

Speaker: *Jeffrey Schroeder FRAeS, Chief Scientific and Technical Advisor, Federal Aviation Administration*

09:30 **2) SIMULATOR BENCHMARKING: RESULTS FROM A REPLICATED MOTION STUDY**

Speaker: *Peter Grant, Associate Professor, University of Toronto for Aerospace Studies*

SESSION TWO: SIMULATOR STATUS FOR AIRCRAFT FLIGHT TEST

Session Chair: *Dr Sunjoo Advani FRAeS, President, International Development of Technology*

09:50 **3) SIMULATION IN DEVELOPMENTAL FLIGHT TEST**

Speaker: *Frank Chapman, Experimental Test Pilot, Airbus Ventral Entity*

10:10 **4) CAN FLIGHT SIMULATION REPLACE FLIGHT TEST**

Speaker: *David Shikany, Lead Engineer - Simulation, The Boeing Company*

10:30 **Networking Refreshment Break**

11:00 **PANEL DISCUSSION**

SESSION THREE: SIMULATOR TRAINING EFFECTIVENESS

Session Chair: *TBC*

11:20 **5) STRIVING FOR EFFECTIVENESS IN FLIGHT SIMULATION**

Speaker: *Kip Caudrey MRAeS, Senior Manager Simulator Evaluation, Boeing Commercial Airplanes*

11:40 **6) CHICKEN OR EGG? TECHNOLOGY OR TRAINING**

Speaker: *Andrew Fawkes MRAeS, Academic Liaison, Bohemia Interactive Simulations*

12:00 **7) HOW COMPETENT IS THE SIMULATOR?**

Speaker: *Joris Field, Training Systems Consultant (R&D Engineer), Netherlands Aerospace Centre*

12:20 **Networking Lunch**



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- 13:20 **8) IMPROVED VALIDATION TESTS FOR FSTD QUALIFICATION**
Speaker: *Itash Samani FRAeS, Head of Global FSTD Regulations, CAE*
- 13:40 **PANEL DISCUSSION**
- SESSION FOUR: SIMULATOR MOTION**
Session Chair: *TBC*
- 14:00 **9) CAN A MOTION PERCEPTION MODEL REPLACE THE GOLDEN-HAND PILOT?**
Speaker: *Dr Eric Groen, Senior Scientist, TNO and Jan Bos, Aviation Manager, TNO*
- 14:20 **10) MOTION AND SIMULATION: IN PURSUIT OF REALISM FROM A REGULATOR'S PERSPECTIVE**
Speaker: *Thomas Turton, Aerospace Engineer, Federal Aviation Authority*
- 14:40 **11) THE INFLUENCE OF AIRCRAFT DYNAMICS ON THE OBJECTIVE MOTION CUEING TEST**
Speaker: *Olaf Stroosma, Researcher, TU Delft*
- 15:00 **Networking Refreshment Break**
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- 15:30 **12) APPLICATION OF MOTION TUNING TECHNIQUES TO ROTORCRAFT FLIGHT SIMULATION**
Speaker: *Michael Jones, Researcher, German Aerospace Centre*
- 15.50 **PANEL DISCUSSION**
- SESSION FIVE: ROTORCRAFT SIMULATION**
Session Chair: *Gordon Woolley FRAeS, RAeS Flight Simulation Group*
- 16:10 **13) ENHANCING ROTARY WING SIMULATION TO PROVIDE HIGHER FIDELITY CUEING FOR ROTARY WING TRAINING NEEDS**
Speaker: *James Takats, President and CEO, TRU Simulation + Training*
- 16:30 **14) THE CHALLENGE OF DEVELOPING OBJECTIVE AND SUBJECTIVE METRICS FOR ROTORCRAFT FLIGHT SIMULATOR**
Speaker: *Jaap Groeneweg, Flight Simulation Expert, NLR*
- 16:50 **15) DESIGN, DEVELOPMENT & DELIVERY OF VIRTUAL REALITY TRAINING FOR AB-INITIO MILITARY HELICOPTER REARCREW**
Speaker: *Peter Booth, RW Fielding Team, Ascent Flight Training*



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- 17:10 **PANEL DISCUSSION**
- 17:30 **CLOSE OF DAY ONE**
- 18:00 **EDWIN A LINK LECTURE**
Admiral P A Chivers OBE FRAeS



STRIVING FOR EFFECTIVENESS IN FLIGHT SIMULATION

DAY TWO - WEDNESDAY 14 JUNE 2017

08:30	Registration and Refreshments
09:00	WELCOME & OPENING REMARKS
	SESSION SIX: SIMULATOR FIDELITY I Session Chair: TBC
09:10	16) FLIGHT SIMULATOR FIDELITY: WHAT REALLY MATTERS? Speaker: Dan Littmann, Manager, Flight Dynamics, FlightSafety International
09:30	17) BENCHMARKING FOR SIMULATOR FIDELITY: SUCCESSES AND LIMITATIONS AT DIFFERENT LEVELS Speaker: Daan Pool, Assistant Professor, TU Delft
09:50	18) BENCHMARKING SIMULATOR-BASED VERSUS REAL-LIFE LANDINGS IN LARGE TRANSPORT AIRCRAFT Speaker: Capt Barry Miedema, VP Crew Training, Head of Training, KLM Royal Dutch Airlines
10:10	19) TREND AND MAGNITUDE, IS IT CORRECT? Speaker: David Gringas, Vice President, Bihrl Applied Research
10:30	Networking Refreshment Break
10:50	PANEL DISCUSSION
	SESSION SEVEN: SIMULATOR FIDELITY II Session Chair: TBC
11:10	20) IMPROVING MODELING AND MOTION CUEING OF FLIGHT IN TURBULENCE Speaker: Michael Madden, Chief Scientist, NASA Langley Research Centre
11:30	21) THE SIMULATION SCENARIO DEFINITION LANGUAGE - CHALLENGING SIMULATOR INDEPENDENT EXPERIMENT DEFINITION Speaker: Torsten Gerlach, Team Leader Simulation Technology, Institute of Flight Technology Systems, German Aerospace Centre
11:50	22) SIMULATOR BENCHMARKS, AN ACCIDENT INVESTIGATOR'S PERSPECTIVE Speaker: Dennis Crider, Chief Technical Advisor, Vehicle Simulation, National Transportation Safety Board
12:10	PANEL DISCUSSION



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DAY TWO - WEDNESDAY 14 JUNE 2017

12:30	Networking Refreshment Lunch
13:30	WORKSHOP BREAKOUTS <i>Collaborative Definition of Benchmark Problems</i>
15:00	Networking Refreshment Break
15:20	WORKSHOP BREAKOUT CONTINUES
16:20	BREAKOUT SUMMARY
17:20	CLOSING REMARKS