

ROTORCRAFT SIMULATION - TRENDS AND FUTURE APPLICATIONS



DAY ONE - TUESDAY 12 NOVEMBER 2019

08:30	Registration and Refreshments
09:00	WELCOME & OPENING REMARKS Speakers: James Kenny MRAeS, Managing Director, Cursive Simulation and RAeS Flight Simulation Group and Mark White MRAeS, Senior Lecturer, Mechanical, Materials & Aerospace Engineering, University of Liverpool and RAeS Flight Simulation Group
09:05	KEYNOTE: UK DEFENCE HELICOPTER FLYING SCHOOL Speaker: Wg Cdr (retd) Harry Palmer, General Manager, RAF Shawbury for UK MFTS
09:30	SESSION ONE: ROTORCRAFT OPERATIONS AND SIMULATION NEEDS
09.35	1) MISSION SIMULATION AND UK POLICE OPERATIONS - THE FUTURE Speaker: Jim Polwarth, Head of Training, NPAS
10.00	2) HM COASTGUARD TRAINING, USE OF SIMULATION, AND PLANS FOR FUTURE Speaker: Russell Torbet, Director, UK Search & Rescue, Bristow Group
10:25	Networking Refreshment Break
10:55	3) REDEFINING ROTORWING SIMULATION TO ENHANCE HEMS OPERABILITY Speaker: Rory Cunningham, Operations Officer, Alpha Aviation
11:20	4) TBC Speaker: TBC
11:45	5) JHC CREW SERVED WEAPON GUNNERY SIMULATOR - NAILING THE USER REQUIREMENT Speaker: WO Des Sheppard-Clayton, Aviation Training Manager, UK Ministry of Defence
12:10	PANEL DISCUSSION
12:30	Networking Lunch
13:30	SESSION TWO: ROTORCRAFT MODELLING AND FIDELITY
13:35	6) THE NEED FOR EXTENDING THE ENVELOPES OF ROTORCRAFT SIMULATORS Speaker: Dr Sunjoo Advani FRAeS, President, IDT Engineering and Mark White MRAeS, Senior Lecturer, Mechanical, Materials & Aerospace Engineering, University of Liverpool and RAeS Flight Simulation Group

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14.00

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14.00	Speakers: Wajih Memon, PhD Student and Neale Watson, PhD Student, University of Liverpool
14:25	8) THE CONTRIBUTIONS OF MODERN ROTARY WING AERODYNAMIC MODELLING AND MINI MOTION VIBRATIONS/CUEING TO HIGHER FIDELITY ROTORCRAFT SIMULATION Speaker: Tom Beers, Senior Software Engineering Manager, TRU Simulation
14:50	PANEL DISCUSSION
15:05	SESSION THREE: MISSION TRAINING AND STANDARDS
15:10	9) NEVER MIND THE REGULATIONS, WHAT ARE THE TRAINING ISSUES WE NEED TO SOLVE? Speaker: Capt Rick Newson, Flight Operations Manger, UK CAA
15:40	Networking Refreshment Break
16:10	10) ROTORCRAFT SIMULATION CAPABILITIES AT RNAS YEOVILTON Speaker: Ray Rawbone and Brian Marsh, Leonardo Helicopters
16:35	11) EFFECTIVE TRAINING TECHNOLOGIES FOR HELICOPTER AIRCREWS Speaker: Shiela Jaszlics, President, Pathfinder Systems Inc
17:00	PANEL DISCUSSION
17:25	CLOSING REMARKS Speakers: James Kenny MRAeS, CEO, Cursive Simulation and RAeS Flight Simulation Group and Mark White MRAeS, Senior Lecturer, Mechanical, Materials & Aerospace Engineering, University of Liverpool and RAeS Flight Simulation Group
17:30	REGISTRATION AND REFRESHMENTS
18:00	EDWIN A LINK MEMORIAL LECTURE Speaker: Mike O'Donoghue CBE FRAeS, Chief Executive, General Aviation Safety Council
19:00	NETWORKING RECEPTION

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DAY TWO - WEDNESDAY 13 NOVEMBER 2019

08:30	Registration and Refreshments
09:00	WELCOME & OPENING REMARKS Speakers: James Kenny MRAeS, CEO, Cursive Simulation and RAeS Flight Simulation Group and Mark White MRAeS, Senior Lecturer, Mechanical, Materials & Aerospace Engineering, University of Liverpool and RAeS Flight Simulation Group
09:05	KEYNOTE: AIR TAXIS AND UNMANNED AIR CARGO Speaker: J. Scott Drennan, Vice President of Innovation, Bell Flight
09:30	SESSION FOUR: UNMANNED AND ELECTRIC VTOL
09:35	12) FURTHER DEVELOPMENT OF SYNTHETIC ENVIRONMENTS TO SUPPORT THE EARLY EVALUATION OF UNMANNED ROTARY WING VEHICLES Speaker: Dr Binoy Manimala, Leonardo
10:00	13) THE USE OF HIGH FIDELITY MODELING AND SIMULATION FOR THE STUDY OF FUTURE MOBILITY NETWORKS Speaker: Egan Greenstein, Senior Director, Boeing NeXt Analysis and Experimentation
10:25	Networking Break
10:55	14) QUANTIFYING LIVE VS SYNTHETIC TRAINING Speaker: Capt David Harris, Head of Aviation Standards, Babcock International Group
11:20	PANEL DISCUSSION
11:45	SESSION FIVE: UNMANNED AND ELECTRIC VTOL
11:50	15) FLIGHT DATA GATHERING FOR HELICOPTER FSTD DEVELOPMENT AND VALIDATION Speaker: Peter Tarttelin MRAeS, MD and Consultant, YourSim Ltd and Regine Pattermann, Head of Flight Test, RS Flight Systems GmbH
12:10	Networking Lunch
13:10	16) DEVELOPMENT OF A FULL FLIGHT SIMULATOR: CHALLENGES, SOLUTIONS AND LESSONS LEARNED Speaker: Dr Emma Timson, Flight Mechanics Engineer, Airbus Helicopters



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ECONARDO THALES

DAY TWO - WEDNESDAY 13 NOVEMBER 2019

- 17) TRAINING DEVICES ORIGINALS AND REPLICATIONS BOTH SIDES OF THE COIN 13.35 Speaker: Martin Keil, Head of Projects and Systems Engineering, Reiser Simulation
- 14:00 18) DRIVING ROTARY SIMULATOR EFFECTIVENESS THROUGH IMPROVING STANDARDS **Speaker:** Nigel Gates, Test Pilot, Nova Systems
- 14:25 PANEL DISCUSSION
- 14:45 SESSION SIX: NON-TRAINING SIMULATION
- 14:50 **19) MBDA - MISSILE SYSTEMS SIMULATION AND TRAINING** Speaker: Craig Eagles, Aircrew Training Advisor, MBDA
- 15:15 **Networking Break**
- 20) SIMULATION IN SUPPORT OF UK CHINOOK INTEGRATION WITH QE CLASS CARRIERS 15:45 Speaker: John Goodby, SAI Systems Integrator, Chinook Delivery Team, DE&S, MoD
- 16:10 21) FLIGHT MODEL VALIDATION CRITERIA NECESSARY TO SUPPORT AFCS DEVELOPMENT AND **OUALIFICATION** Speaker: TBC
- PANEL DISCUSSION 16.25

16:45 **CLOSING REMARKS**

Speakers: James Kenny MRAeS, CEO, Cursive Simulations and RAeS Flight Simulation Group and Mark White MRAeS, Senior Lecturer, Mechanical, Materials & Aerospace Engineering, University of Liverpool and RAeS Flight Simulation Group