

ROTORCRAFT SIMULATION - TRENDS AND FUTURE APPLICATIONS



DAY ONE - TUESDAY 12 NOVEMBER 2019

| 08:30 | Registration and Refreshments |
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| 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 |
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| 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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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