



CONFERENCE PROGRAMME

THE FUTURE REALITY OF FLIGHT SIMULATION



DAY ONE - TUESDAY 11 JUNE 2019

08:30	Registration and Refreshments
09:00	WELCOME & OPENING REMARKS Speaker: <i>Andy Gillbard, Simulator Compliance and Standards Specialist, Boeing and RAeS Flight Simulation Group.</i>
09:30	WORKSHOP 1: FUTURE APPLICATION OF THE ICAO 9625 METHODOLOGIES Moderators: <i>Eric Fuilla-Weishaupt, Flight Training Simulation & Qualification Support, Airbus, Mark Dransfield FRAeS, Director Regulatory Affairs, TRU Simulation & Training and Andy Gillbard, Simulator Compliance and Standards Specialist, Boeing.</i>
10.30	Networking Refreshment Break
11.00	WORKSHOP 2: THE FUTURE REALITY OF FLIGHT SIMULATION Moderators: <i>Mark Dransfield FRAeS Director Regulatory Affairs, TRU Simulation & Training and Andy Gillbard, Simulator Compliance and Standards Specialist, Boeing.</i>
12:00	Networking Lunch
	SESSION ONE: HEADING TOWARDS THE NEW REALITY
13:15	KEYNOTE: WHERE WE HAVE COME FROM AND WHERE WE MIGHT BE HEADED Speaker: <i>Mike Varney FRAeS, President, EBT Foundation</i>
13:40	1) WILL REGULATORY FRAMEWORKS HELP OR HINDER FLIGHT SIMULATION EVOLUTION? Speaker: <i>Jeffery A. Schroeder FRAeS, Chief Scientific and Technical Advisor, Federal Aviation Administration</i>
14:05	2) TECHNICAL & REGULATORY CHALLENGES IN VIRTUAL-REALITY-BASED FSTDs Speaker: <i>Mehdi El Kouch, Co-founder & CEO, VR Aerotraining</i>
14:30	PANEL DISCUSSION
14:50	Networking Refreshment Break
	SESSION TWO: TRAINING THE NEW REALITY
15:20	3) VR/AR, WHAT GOOD IS IT REALLY? Speaker: <i>Antony Hunt FRAeS, Associate Technical Fellow, Boeing</i>



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15:45	4) MODERNISATION OF TRAINING DEVICE USE FOR THE NEXT GENERATION OF AVIATION PROFESSIONALS Speaker: <i>Captain Phillip Adrian</i>
16:10	5) NEXT GENERATION FLIGHT SIMULATOR TARGETED FIDELITY Speakers: <i>Anneke Nabben, Senior Training Expert, NLR and Ronald van Gimst, Senior Simulation Expert, NLR.</i>
16:35	6) APPLICATIONS OF VIRTUAL, AUGMENTED, AND MIXED REALITY DEVICES FOR TRAINING Speakers: <i>Marc Cronan, Principal Program Manager, Collins Aerospace and Dennis Hartley, Principal Engineering Manager, Collins Aerospace.</i>
17:00	PANEL DISCUSSION
17:25	CLOSING REMARKS
17:30	REGISTRATION AND REFRESHMENTS
18:00	EDWIN A LINK LECTURE Speaker: <i>TBC</i>
19:00	NETWORKING RECEPTION



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DAY TWO - WEDNESDAY 12 JUNE 2019

08:30 **Registration and Refreshments**

09:00 **WELCOME & OPENING REMARKS**

Speaker: *Andy Gillbard, Simulator Compliance and Standards Specialist, Boeing*

SESSION 3: TECHNOLOGY FOR THE NEW REALITY

09:05 **7) VIRTUAL IMAGING DELIVERS TRUE IMMERSION**

Speaker: *Fernando Petruzzello MRAeS, Co-founder and CEO, Imagine 4D*

09:30 **8) PRESENTATION 8**

Speaker: *TBC*

09:55 **9) VR AND AR IN FLIGHT TRAINING - LET THE NEEDS PULL THE TECHNOLOGY**

Speaker: *Dr Sunjoo Advaani FRAeS, President, International Development of Technology*

10:20 **Networking Refreshment Break**

10:50 **10) ENHANCED FLIGHT TRAINING, FOR MONITORING AIRCRAFT AUTOMATION AND DEBRIEFING**

Speaker: *Tim Kazik, Senior First Officer A32X, Swiss International Air Lines and David Rudi, Doctoral Student at the Institute of Cartography and Geoinformation, ETH Zürich.*

11:15 **11) SATCE, AI AND SMART SIMULATORS**

Speaker: *Jeremy Goodman MRAeS, Product Lead (SATCE), Quadrant Group*

11:40 **PANEL DISCUSSION**

12:05 **Networking Lunch**

SESSION 4: NEW APPROACHES AND METHODOLOGIES

13:20 **12) TECHNOLOGICAL LEVERS TO MOVE THE WORLD OF COCKPIT CREW TRAINING**

Speaker: *Fabio Ortalli, Training - Research Projects Manager, TXT e-Solutions S.p.a and Maurizio Biscaglia, Consultant Aeronautical Simulation Engineer, TXT e-Solutions S.p.a.*

13:45 **13) WATER HANDLING MODELING**

Speaker: *Robert Liegl, Aerodynamicist & Controls engineer, TRU Simulation & Training*



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DAY TWO - WEDNESDAY 14 NOVEMBER 2018

14:10 **Networking Refreshment Break**

14:40 **14) THE VIRTUOUS CYCLE OF ENGINEERING SIMULATION: RESEARCH, ENGINEERING, INTO TRAINING AND BACK AGAIN**

Speaker: *Dr Edward Goddard, Head of Mission System and Engineering Simulation Department, Leonardo Helicopters and Adrian Alford, Principal Flight Simulation Engineer, Leonardo Helicopters.*

15:05 **15) DATA COMMUNICATION WITH FLIGHTGEAR USING SIMULINK IN REAL TIME OVER A UDP PROTOCOL**

Speaker: *Adil Loya, Department of Avionics Engineering, PAF Karachi Institute of Economics and Technology*

15:30 **PANEL DISCUSSION**

15:55 **CLOSING REMARKS**

Speaker: *Andy Gillbard, Simulator Compliance and Standards Specialist, Boeing*

16:00 **END OF DAY TWO**