



Flight Simulation Conference

EFFECTIVE DEVELOPMENT OF FLIGHT SIMULATORS



CAE



LEONARDO

THALES



Commercial Training Solutions



SIMULATION
+ TRAINING
A Textron Company



Shell Aircraft

DAY ONE - TUESDAY 13 NOVEMBER 2018

08:30 **Registration and Refreshments**

09:00 **WELCOME & OPENING REMARKS**

Speaker: Goran Ancker, Technical Fellow, Saab Aeronautics, RAeS Flight Simulation Group

09:05 **KEYNOTE**

Speaker: James Takats

SESSION ONE: SIMULATIONS TO SUPPORT AIRCRAFT DEVELOPMENT

09:35 **1) BRIEFING ON SIMULATION TO SUPPORT AIRCRAFT DEVELOPMENT**

Speaker: Goran Ancker, Technical Fellow, Saab Aeronautics, RAeS Flight Simulation Group

10:00 **2) THE ROLE OF SIMULATION IN SUPPORT OF F-35B/QEC AIRCRAFT-SHIP INTEGRATION**

Speaker: Steven Hodge MRAS, Senior Simulation Engineer, BAE Systems

10:25 **Networking Refreshment Break**

10:55 **3) SLSC OPEN STANDARD FOR SIGNAL CONDITIONING**

Speaker: Jeremy Twaits, Country Manager (UK), National Instruments

11:20 **4) SLSC OPEN STANDARD FOR SIGNAL CONDITIONING IN HARDWARE-IN-THE-LOOP SIMULATION OF AIRCRAFT SYSTEM**

Speaker: Anders Tunstromer, Saab

11:45 **PANEL DISCUSSION**

12:05 **Networking Refreshment Lunch**

SESSION TWO: MODELLING TOOLS AND TECHNIQUES

13:10 **5) THE EVOLUTION OF SIMULATION - INCREASING THE USE OF MODELLING & SIMULATION FOR PRODUCT DEVELOPMENT.**

Speaker: Jason Wilkes, Country Manager (UK), Pegasus

13:35 **6) THE DEVELOPMENT OF SYNTHETIC ENVIRONMENTS TO SUPPORT THE DEVELOPMENT AND TESTING OF UNMANNED ROTARY WING VEHICLES**

Speaker: Adrian Alford, Principal Flight Simulation Engineer, Leonardo Helicopters



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- 14:00 **7) ENHANCING MODEL INTEROPERABILITY IN AIRCRAFT SYSTEM SIMULATION USING THE FUNCTIONAL MOCK-UP INTERFACE STANDARD**
Speaker: *Magnus Eek, Saab Aeronautics*
- 14:25 **PANEL DISCUSSION**
- 14:45 **Networking Refreshment Break**
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- SESSION THREE: SIMULATING AVIONICS**
- 15:20 **8) HOW OPEN SYSTEM ARCHITECTURES ARE CHANGING AEROSPACE TECHNOLOGY DEVELOPMENT**
Speaker: *Lawrence Kermon, Principal Program Manager, Rockwell Collins*
- 15:45 **9) DEVELOPING A610 FUNCTIONALITY FOR COMPUTER CONTROLLED AIRCRAFT SIMULATION - A LOOK AT DIFFERENT WAYS OF SIMULATING AVIONICS AND THEIR ADVANTAGES AND DISADVANTAGES**
Speaker: *Bernard Mattos FRAeS, RAeS Flight Simulation Group*
- 16:10 **10) TBC**
- 16:35 **11) TYPHOON SIMULATOR RECORD AND REPLAY/DEBRIEF FACILITY**
Speaker: *Duncan Porteous, S/W Team Leader, BAE Systems - Air*
- 17:00 **PANEL DISCUSSION**
- 17:20 **CLOSING REMARKS**
Speaker: *Goran Ancker, Technical Fellow, Saab Aeronautics, RAeS Flight Simulation Group*
- 17:30 **REGISTRATION AND REFRESHMENTS**
- 18:00 **CAPT RAY JONES LECTURE**
Speaker: *David Owens FRAeS, Head of Global Standards, CAE*
- 19:00 **NETWORKING RECEPTION**



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DAY TWO - WEDNESDAY 14 NOVEMBER 2018

08:30	Registration and Refreshments
09:00	WELCOME & OPENING REMARKS Speaker: Goran Ancker, Technical Fellow, Saab Group, RAeS Flight Simulation Group
09:05	KEYNOTE: UK DEFENCE POLICY FOR MODELLING AND SIMULATION Speaker: Bijal Shah, Deputy Head Joint Training & Simulation, MoD
	SESSION FOUR: NETWORKED SIMULATION
09:35	17) BRIEFING ON NETWORKED SIMULATION Speaker: Stefan Sandberg, MRaE S, President and CEO, Pitch Technologies
10:00	16) NATO VISION ON DISTRIBUTED FLIGHT TRAINING EVENTS AND WHAT REQUIREMENTS THAT WILL HAVE TO BE MET BY ANY INDIVIDUAL FLIGHT SIMULATION SYSTEM IN ORDER TO PARTICIPATE Speaker: Wim Huiskamp, Chief Scientist Modelling & Simulation and Gaming at TNO Defence, Security and Safety
10:25	Networking Refreshment Break
10:55	17) DOTC AIR Speaker: Gp Capt Mark 'Britvic' Gorringer, Programme Manager - Defence Operational Training Capability, RAF Air Command
11:20	PANEL DISCUSSION
	SESSION FIVE: EXPLOITING GAMING TECHNOLOGY
11:45	19) CAN WE LEARN FROM CROSS-PLATFORM GAMING? Speaker: Andy Fawkes MRaE S, Academic Liaison, Think Company Ltd
12:10	Networking Refreshment Lunch
13:10	21) TBC Speaker: TBC
13:35	22) DESIGN OF TARGETED FIDELITY TRAINING DEVICES USING GAMING TECHNOLOGY AND STANDARDS BASED INFRASTRUCTURE Speaker: Stefan Sandberg, MRaE S, President and CEO, Pitch Technologies



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- 14:00 **PANEL DISCUSSION**
- 14:20 **Networking Refreshment Break**
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- SESSION SIX: EMERGING TECHNOLOGIES AND PROCESSES**
- 14:50 **23) PRODUCT FAMILY ENGINEERING CHALLENGES AND SOLUTIONS IN THE DEVELOPMENT OF AIRCRAFT SIMULATORS**
Speaker: *Robert Lindohf, Saab*
- 15:15 **24) DISPLAY TECHNOLOGIES FOR LVC SYNTHETIC ENVIRONMENTS**
Speaker: *Fernando Petruzziello, Qube 4D*
- 15:40 **PANEL DISCUSSION**
- 16:00 **CLOSING REMARKS**
Speaker: *Goran Ancker, Technical Fellow, Saab Aeronautics, RAeS Flight Simulation Group*
- 16:10 **END OF DAY TWO**