

Flight Simulation Conference 2014

The Future of Flight Training Devices

**London, United Kingdom
12-13 November 2014**

ISBN: 978-1-5108-0278-0

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2014) by the Royal Aeronautical Society
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact the Royal Aeronautical Society
at the address below.

Royal Aeronautical Society
No. 4 Hamilton Place
London
W1J 7BQ
United Kingdom

Phone: +44 (0) 20 7670 4300
Fax: +44 (0) 20 7670 4309

www.raes.org.uk

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

SESSION 1: THE R&D PERSPECTIVE IN SHAPING FUTURE FTDS

Flight Models For FTD's	1
<i>D. Allerton</i>	
DLR's Air Vehicle Simulator - AVES	12
<i>H. Duda</i>	
Next Generation Pilot Training With Robot-Based Flight Simulators	22
<i>T. Bellmann, A. Labusch</i>	

SESSION 2: REGULATORY REQUIREMENTS FOR FUTURE DEVICES

Exploration Of Alternate Flight Simulator Qualification Methods	30
<i>R. Oltman, D. Gingras</i>	
Lower-Level Devices: The Data-Driven Dilemma	45
<i>S. Smith</i>	

SESSION 3: FUTURE FTD TECHNOLOGY ADVANCEMENTS

Of Dinosaurs And Small Furry Mammals	54
<i>A. Martin</i>	
Training And Simulation In A More Autonomous And Robotic Future	60
<i>A. Fawkes</i>	
Furthering The Fidelity Of Human-In-The-Loop Helicopter Flight Research Simulators	80
<i>S. Manso</i>	
Operational Training - The Technology And Affordability Challenges	97
<i>M. Southworth</i>	

SESSION 4: FUTURE TRENDS IN CIVIL FLIGHT SIMULATION

Outsourcing ATC, Traffic & Scenario Management	110
<i>M. Cioffi</i>	
The Second Dimension Of Flight Simulation	117
<i>J. Gregoire</i>	

SESSION 5: ENHANCING TRAINING REALISM OF FUTURE FTD'S

Flight Simulation For Decision Making	126
<i>G. Woolley</i>	
Flight Training Devices Their Place In The Training Mix	134
<i>I. Strachan</i>	
Author Index	