



ADVANCED DESIGN OF LIGHT AIRCRAFT

CURRENT AND FUTURE DESIGN

LONDON / 14 NOVEMBER 2016



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ONE DAY CONFERENCE

ADVANCED DESIGN OF LIGHT AIRCRAFT

CURRENT AND FUTURE DESIGNS

Since the announcement of E Conditions in November 2015 a number of projects have already successfully applied them in realising new flying proof of concepts. (For further information of this please see the CAA publication, CAP 1220). The objective of the Royal Aeronautical Society General Aviation Specialist Group is to provide detailed design information that can be specifically applied to the design of GA aircraft. This will form the focus of the first half of the 2016 conference.

In the second half where E Conditions have been successfully used will be showcased as well as new upcoming developments that may in the not too distant future be used in the next generation of light aircraft design will be highlighted.

In the evening forum event the General Aviation Group would like to give the opportunity for both open discussion and for individuals or groups to present their ideas. The event will provide both a source of design information as well as to provide a networking event with some of the current aircraft designers and to those that have successfully made use of E Conditions.



VENUE

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

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Light Aircraft Association



Sponsorship and exhibition opportunities are available for this conference
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Sponsorship & Exhibition

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TO REGISTER VISIT: www.aerosociety.com/LAD16

PROGRAMME – 14 NOVEMBER 2016

10:30 **Registration & Refreshments**

10:55 ▶ **CHAIRMAN'S WELCOME**

David Stanbridge MRAeS, Swift Technology Group, General Aviation Group, Royal Aeronautical Society

11:00 **1) Stability and Control of Fixed Wing Aircraft: Learnings from the Design of a New Aircraft**

Joshua McGowan, CFD Engineer, Swift Aircraft

11:30 **2) Detailed Considerations in the Stressing of an Aircraft Fuselage**

David Lunn, Director and Ross Campbell, Fineunit Ltd

12:00 **3) Hybrid Power in Light Aircraft: Design Considerations and Experiences of First Flight**

Dr Paul Robertson, Lecturer, Department of Engineering, University of Cambridge

12:30 **4) High efficiency light aircraft design - options from sailplane technology**

Howard Torode, British Gliding Association Technical Officer

13:00 **Networking Lunch**

14:00 **5) Auto-Gyros: Rotor Considerations**

Barry Jones, Managing Director, Bulldog Autogyro

14:30 **6) Aircraft Fatigue Testing**

Phil Spiers FRAeS, Head of AMRC Laboratories, Advanced Structural Testing Centre

15:00 **7) Simpler Certification**

Speaker TBC, EASA

15:30 **8) Experiences of an E Conditions Competent Person**

Alexander Ellin MRAeS, Senior Lecturer Aerospace Engineering, University of Teeside

16:00 **9) E Conditions One Year Review and the Future Outlook**

Mark Shortman Policy Manager, Civil Aviation Authority

16:30 **Networking Refreshment Break**

17:00 **PANEL DISCUSSION**

17:30 ▶ **CLOSING REMARKS**

David Stanbridge MRAeS, Swift Technology Group, General Aviation Group, Royal Aeronautical Society

17:45 ▶ **FORUM EXTENSION AND DISCUSSION**

*General Aviation Open Group Meeting
During this time there will be a cash bar and short presentations taking place.*

19:30 ▶ **FORUM ENDS**

