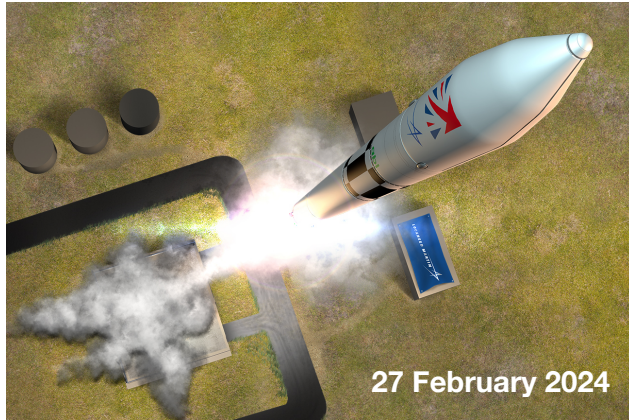




2023-2024 Programme



Unless otherwise stated, all meetings commence at 7.30 p.m. and will be held in Room U020, Brockington Building, Loughborough University (see map on page 6). Lectures will also be available online via MS TEAMS.

Supporting the Loughborough Branch

All our lectures are free to attend or watch via TEAMS but, to help us cover our costs, those who are *not* RAeS Members or students are asked to make a donation of at least £3 per lecture. Alternatively, we urge these persons, especially those who watch via TEAMS, to become *Branch Members* for a single payment of £15, which covers a full season of lectures. To find out how, go to the *Participation* page of our website.

For the latest update to the Branch's programme consult our website:
www.loughborough-raes.org.uk

2023 - 2024 Lectures

2023

17 October: *Development of the F86 Sabre*
by Rod Dean, Aviation Consultant



Covering the Development of the F-86 focusing on the technical aspects of the aircraft, its initial configuration, the change to encompass the German swept wing research and the subsequent changes throughout the various marks of the aircraft.

sequent changes throughout the various marks of the aircraft.

7 November: *Silver City Airways - Innovators in Air Transport* *by Stephen Hogarth, FRAeS, Loughborough Branch Treasurer*



Over 10 years in the middle of the last century the airline rose from being a small private charter company to being a large scheduled

airline, and its role in the development of British air transport has become almost legendary. An airline best known for its innovative car ferry service which, in its heyday, crossed the English Channel up to 220 times each day.

21 November: *Elfyn Richards Prestige Lecture Genesis of the Jet* *by Ian Whittle, FRAeS*

The presentation will describe the earliest proposal for turbojet propulsion and the subsequent development in Germany and the USA - with some flying adventures thrown in.



2023 - 2024 Lectures

12 December: *The Buccaneer*

by Air Cdre (Rtd) Graham Pitchfork, MBE.

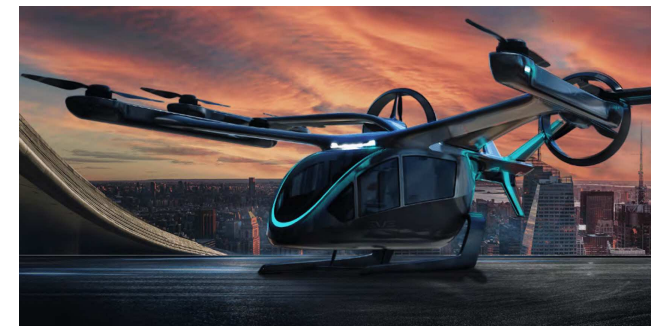
The talk covers the development of the Buccaneer and its service in the Fleet Air Arm and the RAF. This includes carrier-borne, maritime and overland operations including the aircraft's involvement during the First Gulf War.



2024

16 January: *Airworthiness in the Context of Unmanned Aircraft Systems* *by Dewar Donnithorne-Tait, FRAeS, Unmanned Aviation Specialist*

The current and evolving airworthiness regime for manned aviation has existed for many decades. Its principal focus is the safety of human life on board aircraft. Unmanned aircraft with no human life on board pose a range of issues for airworthiness and air traffic management. This lecture will identify and discuss such issues, leaving several questions which will need to be addressed.



2023 - 2024 Lectures

13 February: *Selling Airlander*

by George Land - Executive Director - Sales, Hybrid Air Vehicles



The presentation will cover a general aircraft overview, speak about markets and give a programme update for both Airlander 10 and 50.

27 February: Lockheed Martin Space in the UK

by Grant Lewis, Project Manager

This talk will provide an overview of the Lockheed Martin Space business area before moving on to discuss the critical importance of space to the United Kingdom. The talk will conclude by presenting the role of Lockheed Martin in supporting the creation of a UK launch capability.

19 March: A Lighter View of the Light Blue

by Kenneth Moore, ex-RAF Navigator

You'll Fly Laughing - a humorous account of 34+ years as a navigator. All the silly bits from his life as a navigator to prove that you do need a sense of humour in the RAF. Burials at Sea, Desert patrols, Colonial misunderstandings and finally an appearance by a well know TV star! 'Captain! clear for take off!

A Lighter View of the Light Blue (Pt 1)

By Kenneth Moore
ex-RAF Navigator

A humorous account of 5 years flying in a Shackleton AEW2

2023 - 2024 Lectures

16 April: Sustainability in Aerospace - a Combustion Perspective

by Dr Kenneth Young, Rolls-Royce Engineering Fellow.

The drive to sustainability in all sectors is clear and urgent and civil aerospace is no exception. Rolls Royce is playing a leading role in introducing and validating both sustainable aviation fuel (SAF) and Hydrogen. In this lecture, the overall strategy and ambition of Rolls Royce with regard to sustainability will be covered followed by an explanation of what that means for the combustion section. The talk will cover the strategy and validation programmes for both SAF and Hydrogen and include a deeper dive into Hydrogen. The differences and commonalities between aviation and industrial gas turbine hydrogen combustion will be discussed with the purpose of answering one central question "What will an aerospace hydrogen combustion sub-system look like?". The results of a recent Hydrogen engine test campaign will be presented and discussed.



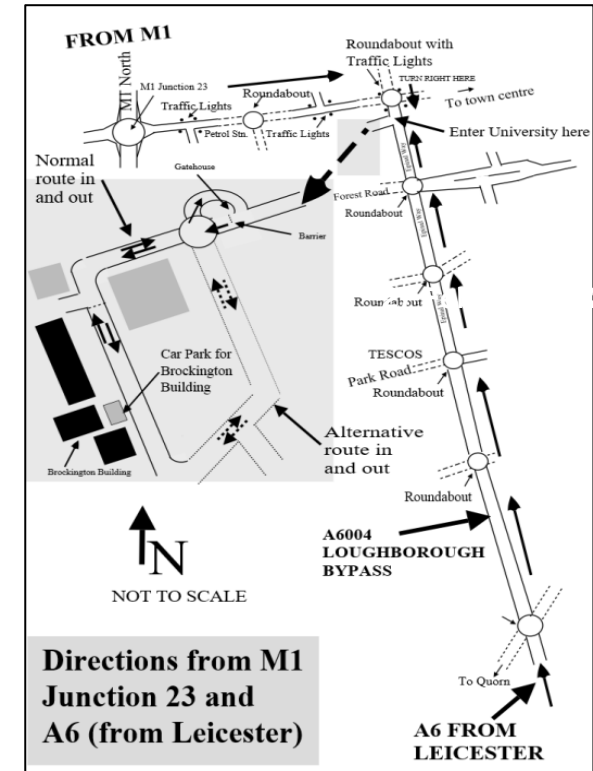
11 June (6:30 pm): Room EHB002 (Edward Herbert Building) - Loughborough University MEng Final Year Aircraft Design Projects

Joint Event with Department of Aeronautical and Automotive Engineering.

An annual event, this series of mini-lectures will be given by groups of final year MEng students and will describe the results obtained from their projects.

Branch Committee

Chairman: Professor Jim McGuirk FRAeS, FREng
Secretary: Colin Moss MRAeS, 62 Spinney Hill Dr, Loughborough LE11 3LD Tel.: 01509 239962
Treasurer: Stephen Hogarth FRAeS
Ass'nt Secretary: Dr. John Ollerhead OBE MRAeS
Meetings Secretary: Dr. Vipran Kannan ARAeS
Visits Secretary: Dan Nutt
Programme Secretary: Goff Tearle MRAeS



Other committee members: Roger Allton, Dr James Knowles, Francis (Mac) Maccabee, Ben Marshall, John Newton MRAeS, Professor Adrian Spencer FRAeS, Thomas Steffen, Ashley van Bruygom ARAeS, (RAeS Young Persons Representative and Loughborough Students Flying Club delegate to be appointed.)