



ROYAL AERONAUTICAL SOCIETY

Loughborough Branch

Minutes of the Annual General Meetings held on Tuesday 28th April 2015 (including details of the lecture which followed the AGM)

No. attendees – 22.

Apologies for absence – There were none.

1 Minutes of AGM held on 15th April 2014

These were approved.

Proposer – Vipran Kannan, Seconder – Ivor Amos

2 Matters Arising

There were none.

3 Secretary's Report

See Appendix 1 (Secretary's Report to the 2014/15 Season AGM held on Tuesday 28th April 2015).

The Secretary's Report was approved nem con.

Proposer – Goff Tearle, Seconder – Mac Maccabee

4 Treasurer's Report

See Appendix 2 (Treasurer's Report to the 2014/15 Season AGM held on Tuesday 28th April 2015).

The Treasurer stated that the amount of grant to be requested from the RAeS would be reduced from that awarded for the year 2015 because of the surplus of income over expenditure during the 2014/15 season.

The Treasurer's Report was approved nem con.

Proposer – Bob Caves, Seconder – Tony Irwin

5 Election of Officers

5.1 The following committee members indicated that they were willing to stand for re-election for the 2015/16 Season:

Branch Chairman	:	John Ollerhead
Branch Secretary	:	Colin Moss
Branch Treasurer	:	Mac Maccabee
Meetings Secretary	:	Karpaga Vipran Kannan (Vipran).
Committee Members	:	Ivor Amos, Mike Hirst, Barry Jacobson, Daniel Nutt, Goff Tearle.

N.B. Michael Y K Leung was not standing for the 2015/6 season as he will be leaving the University in June 2015. It is likely that the Chairmen of the Loughborough Students' Flying Club and Velocity Society will be co-opted as Committee Members.

All those standing for election were elected nem con.

6 Any Other Business

There was none.

Colin Moss MRAeS, Branch Secretary

APPENDIX 1 - Report on the 2014/15 Season - AGM held on Tuesday 28th April 2015

1. Review of the 2014/15 Lecture/Visits Programme

1.1 Lectures

In all a total of ten lectures were planned for the 2014/15 programme (see Table 1 below). **Refer to RAeS Loughborough Branch website for full reports on the lectures.**

TABLE 1

Date	Lecture/Lecturer	Attendance	Synopsis of the Lecture
23 rd Sep. 2014	Flying the Lockheed SR-71 "Blackbird" Strategic Reconnaissance Aircraft by Col. Richard Graham USAF Retd.	225	This lecture told the story of the Lockheed SR-71 "Blackbird" strategic reconnaissance aircraft. This aircraft was designed and flown in the utmost secrecy to gather intelligence from high above enemy territory.
4 th Nov 2014	Bird Strike and Airframe Design by David Coldbeck, A350 Stress Lead PRA and Test, Spirit AeroSystems (Europe)	100	This lecture described the effects of bird strikes on airframes and considered the challenges to modern airframe design to counter these effects. In the case of modern fighter aircraft as much as 40% of the front fuselage structure weight is from the nose cone, windscreen and canopy all of which are highly influenced by bird strike design considerations.
18 th Nov 2014	A History of the Merlin Engine (1929 - 1945) by Peter Maynard, Aeronautical Historian.	200	The lecture described the history of the Merlin engine, from the R type to the troublesome Merlin 1 and on to the development of the Merlin 2 and 3. Later versions using 115 octane fuel and with dramatic increases in power output were also described. Together these engines powered, amongst others, the Spitfire, Hurricane, Lancaster and Mosquito aircraft. The engines were also used in Shackleton aircraft which continued in service for many years after WWII. <i>Joint lecture with Loughborough (University) Alumni</i>
9 th Dec 2014	Development of Heathrow Airport Capacity by Captain Jock Lowe FRAeS, former British Airways Chief Pilot and former President RAeS.	160	The lecture described the "Heathrow Hub", one of three major projects short-listed in the on-going Davies Inquiry. It considered the "realistic" requirements for Heathrow over the next 50 years and went on to propose a solution, in terms of capacity, minimisation of social and environmental impact, timescale and financial costs. <i>Joint lecture with Loughborough University Velocity Society</i>

APPENDIX 1 - Report on the 2014/15 Season - AGM held on Tuesday 28th April 2015

TABLE 1

Date	Lecture/Lecturer	Attendance	Synopsis of the Lecture
20 th Jan 2015	100 years of world-class aircraft from Kingston-upon-Thames by Chris Farara, Hawker Association.	130	The lecture described the founding of Sopwith Aviation in 1912 and its development into Hawker Aircraft , Hawker Siddeley Aviation and British Aerospace at Kingston upon Thames. Significant events, people and aircraft were covered.
3 rd Feb 2015	Future aircraft propulsion technologies by Prof. Richard J Parker, CBE, FREng, FRAeS, FIMechE, FInstP. Director of Research and Technology, Rolls-Royce Group.	160	This lecture described Rolls-Royce’s evolutionary approach to development especially in relation to the Trent series engines. Proposed new developments include increased bypass ratios by using larger composite bladed fans, a gearbox to optimise fan speed and increases in HP turbine pressure. Contra-rotating open fan engine designs were also described together with engines highly integrated into aircraft body structures. <i>Elfyn Richards Prestige Lecture</i> <i>Joint lecture with Loughborough Students Flying Club</i>
17 th Feb 2015	Ferrying aircraft from RAF Melton Mowbray in World War II by Dr. Ray Flude, Aviation Historian.	140	The lecture described the world-wide infrastructure established during WWII to ferry all types of aircraft around the world. The latter part of the lecture concentrated on the role of RAF Melton Mowbray in this all important task.
10 th March 2015	Lightning II, the UK’s Joint Combat Aircraft by Wg Cdr Jim Schofield, Lightning II Project Team	230	The lecture commenced with an outline of the project history of the F35 program in which the UK is the sole Level 1 partner with a 15% stake. The technology, functionality and design of the aircraft were described with particular emphasis on the F35B STOVL variant which is being purchased by the UK. Finally the importance of and benefits to UK industry were emphasised. <i>Joint lecture with IMechE</i>
28 th Apr. 2015	Restoring a Tiger Moth - Seventy Years On! by Terry Dann, Aviation Industry Consultant	110	This lecture told the story of the second post-war restoration of Tiger Moth T6055/G-AIDS between November 2009 and July 2013 culminating in it being proclaimed “Best Moth” at the LAA Rally in August 2013.
9 th June 2015	Loughborough University MEng Final Year Aircraft Design Projects – 4 short lectures	??	Event still to be held at time of writing this report.

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The above table confirms that, without doubt, the Loughborough Branch has had another excellent season.

Our lectures have covered all aspects of aerospace - historical, the present and the future; reminiscences and modern technology. The average attendance for the first nine lectures of the **2014/15 season was 162. 4 of the lectures were joint lectures with other organisations.**

1.2 Visits

Two visits were arranged for the 2014/15 season.

Date	Visits
September 2014	Rolls-Royce Heritage Trust Museum and Rolls-Royce Technology Centre, Derby
May 2015	Tony Marmot's Renewable Energy Farm, Nr. Loughborough

APPENDIX 1 - Report on the 2014/15 Season - AGM held on Tuesday 28th April 2015

2. Review of the 2015/16 Lecture/Visits Programme

2.1 Lectures

The following lectures shown in Table 2 below have been planned for the 2015/16 Season:

Table 2		
Date	Lecture	Lecturer
13 th Oct 2015	The CV-22 Osprey	Lt Col James S Peterson, 7 SOS Operations Manager, RAF Mildenhall USAF Base.
3 rd Nov 2015	Human Powered Flight	Dr Bill Brookes, P & M Aviation.
17 th Nov 2015	HMS Queen Elizabeth Class Carriers – The UK’s Supercarrier (subject to final confirmation) <i>Joint lecture with the Loughborough (University) Alumni and Elfyn Richards Prestige Lecture</i>	Captain Simon Petitt, HMS Queen Elizabeth Ship’s Senior Naval Officer.
8 th Dec 2015	The Future of Air Traffic Control (or similar) <i>Joint lecture with the Loughborough Students Velocity Society</i>	NATS lecturer TBD.
19 th Jan 2016	Research & Development carried out at the Royal Aircraft Factory during WW1	Dr. Graham Rood, Farnborough Air Sciences Trust (FAST).
2 nd Feb 2016	Tracking the Malaysian Boeing 77 Flight MH370 (subject to final confirmation)	Alan Schuster-Bruce, Inmarsat, Manager Aeronautical Product Engineering.
16 th Feb 2016	Flying Shuttleworth Aircraft <i>Joint lecture with the Loughborough Students Flying Club</i>	Roger Bailey, Chief Pilot, Shuttleworth Collection.
8 th March 2016	The Skylon spaceplane and its Sabre engines <i>Possible joint lecture with I. Mech. E.</i>	Reaction Engines lecturer TBD
19 th April 2016	AGM + Superfighters at Warton	Tony Wilson, BAE Systems
7 th June 2016	Loughborough University MEng Final Year Aircraft Design Projects – 4 short lectures	-----

APPENDIX 1 - Report on the 2014/15 Season - AGM held on Tuesday 28th April 2015

1.2 Visits

Date	Visits
March 2016	Agusta-Westland Production Line, Yeovil and the Naval Aviation Museum , Yeovilton (This will be a 2 day visit involving an overnight hotel stay. Participants will be required to use their own cars.)

APPENDIX 2 - Report on the 2014/15 Season - AGM held on Tuesday 28th April 2015

STATEMENT OF ACCOUNTS – SEASON 2014/15 - 16/04/2014 TO 22/04/15

	£ 2014/15	£ 2013/14
A. INCOME AND EXPENDITURE ACCOUNT		
INCOME		
1. Grant from RAeS Headquarters	2000.00	2250.00
2. Subscriptions from Branch Friends @ £10 each	860.00	810.00
3. Donations (collections) at lectures	450.03	341.06
TOTALS	<u>3310.03</u>	<u>3401.06</u>
EXPENDITURE		
1. Lecture expenses (travel, accommodation and hospitality)	1226.26	791.90
2. Room Bookings	672.00	672.00
3. Use of audio-visual aids	720.00	240.00
4. Secretarial and publicity, including programmes	391.99	373.14
5. Branches conference and forum	nil	492.90
6. Website renewal fee	52.08	8.38
TOTALS	<u>3062.33</u>	<u>2578.32</u>
SURPLUS ON YEAR	247.70	822.74

B. STATEMENT OF BANK BALANCES AT 22/04/2015

Brought forward balances from last season:

	£
Current account at 15/04/2014	6363.50
Capital account at 15/04/2014	2.34
TOTAL	<u>6365.84</u>
Plus surplus on year from above of	247.70
TOTAL	= <u>6613.54</u>
Represented by current balances:	
Current account at 22/04/15	6611.20
Capital account at 22/04/15	2.34
TOTAL	<u>6613.54</u>

Francis Maccabee, Hon. Treasurer, 22 April, 2015