IMechE Aerospace North West

Meeting Minutes

A joint meeting of the IMechE Aerospace North West committee and Lancashire Area committee was held on Monday 20th April 2015 at David Lloyd Club, Chorley. The meeting commenced at 18:30 till 20:30.

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Euan Mason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice Chairman</td>
<td>Vacancy</td>
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<tr>
<td>Immediate Past Chairman</td>
<td>Ivan Dean</td>
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<tr>
<td>Hon Secretary</td>
<td>Rebecca Donald-Lopez</td>
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<tr>
<td>Hon Treasurer</td>
<td>Manuel Donald-Lopez</td>
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<tr>
<td>Committee members</td>
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<td></td>
<td>David Ball</td>
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<td>David Barrett</td>
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<td>Martin Baxter</td>
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<td>Paul Gardner</td>
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<td>Kevin Hudson</td>
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<td>Martin Hyman</td>
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<td>Asim Javed</td>
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<td></td>
<td>Euan Mason</td>
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<td>Andrew Medd</td>
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<td>Iain Minton</td>
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<td></td>
<td>Thurai Rahulan</td>
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<td>Graham Roe</td>
</tr>
<tr>
<td></td>
<td>Clive Winby</td>
</tr>
</tbody>
</table>

1 ANW ATTENDEES

Arreyhon Alemi    Rail Industry
Martin Baxter     BAE Systems
Ivan Dean         Immediate Past Chairman ANW
Rebecca Donald-Lopez BAE Systems / Hon Secretary IMechE ANW
Andrew Medd       Education Advisory Group
Thurai Rahulan    University of Salford / Royal Aeronautical Society
Clive Winby       SILCOMS Ltd.

Apologies were received from

David Ball        IMechE Power Industries Division NW Centre Chair
David Barrett     IMechE Business Development Manager
Manuel Donald-Lopez BAE Systems / Hon Treasurer IMechE ANW
Paul Gardner      Aircelle
Martin Hyman      Business Consultant
Asim Javed        Assystem
Euan Mason        BAE Systems / Lancashire Area Chairman
Iain Minton       Aircelle
Graham Roe        Royal Aeronautical Society
Greg Stevens      BAE Systems

http://nearyou.imeche.org/nearyou/UK/North-Western/Aerospace-North-West
The committee welcomed Arreyhon Alemi to his first committee meeting. Arreyhon is Quality Engineer in the rail industry that attained a Masters in Aerospace at Salford University, and is keen to get back into the Aerospace industry.

2 LANCASHIRE AREA ITEMS OF INTEREST TO ANW

Lancashire area event ‘Certification of UAV’s’ will potentially be a joint event with ANW. Lancashire Science Festival takes place on Saturday 27 June 2015. IMechE will be supporting one day of the event. Rebecca Donald-Lopez took an action to add the Lancashire Science Festival to the ANW calendar.

*Action: Rebecca Donald-Lopez*

The IMechE stall will currently consist of:
- Primary Engineer Design Challenge
- Wind Tunnel
- Dyson Fan
- Stirling Engine
- + 1 further idea from YMP

Lancashire Area have purchased a box of gifts for speakers, these gifts will be shared between Lancashire, YPM and ANW. Manuel Donald-Lopez has transferred payment for the gifts to Lancashire Area.

**Regional Meeting Report**

Andrew Medd reported:
- Near You: HQ is to implement a new event booking system, by the end of Q2 next year.
- David Barret is retiring next year and is moving to 3 days a week in the interim.
- New objectives from HQ this year are currently late.
- The Design Challenge Final is to be held on Friday 2nd October 2015.
- The date of the next regional meeting is Monday 6th July 2015 and Lancashire Area is hosting it.

3 MINUTES FROM THE LAST MEETING

The minutes from the last meeting were agreed to be the true and accurate record.

4 TREASURERS REPORT

See Appendix 3.

5 AEROSPACE DIVISION & HQ UPDATES

Ivan Dean reported that Euan Mason should be attending the next HQ meeting.
6 SCHOOLS SUPPORT & WIND TUNNEL UPDATE

The IMechE North West Region has been asked to assist with reviewing entries to a Primary Engineering Challenge run in local schools. The challenge is for young people to come up with a design that they believe would benefit anyone or everyone.

Ivan Dean reported that the email he sent to the region asking for volunteers to help review some of the papers has had a great response. He reported that volunteers who don’t live in the local area, have been directed to their local committees.

7 EVENTS & ACTIVITIES PROGRAMME - 2014 / 2015

7.1 Visit to Fire & Rescue Facility – Event Review

Date: Friday 20\textsuperscript{th} March 2015
Venue: Washington Hall
Time: 14:45 (for 15:00 start)
Title: Visit to Washington Hall Fire & Rescue Facility
Organiser: Martin Baxter

Martin Baxter reported that 28 people attended the Fire & Rescue Facility Visit. The event was described as a first class, knowledgeable, educational and a professional visit. Martin reported that they would not accept any payment for refreshments, so no payments are due.

7.2 Rolls-Royce Operational Service

Date: Wednesday 22\textsuperscript{nd} April 2015
Venue: Marriott Hotel, Manchester Airport, M56 Junction 6
Speaker: Matt Burns, Head of Operational Service Desk, Rolls-Royce Civil Large engines
Time: 18:00 for 18:30
Title: Rolls-Royces Service Desk on Wing Monitoring of Engines
Organiser: Clive Winby

Clive reported that everything was booked and in place for the event. Tea & Coffee has been ordered but no food. Rebecca reported that 22 people had registered for the event so far.

7.3 Composites Event 2: Sustainability

Date: Tuesday 27\textsuperscript{th} May 2015
Venue: Canberra Club, Samlesbury
Time: 18:00 for 18:30
Speaker: Alex Edge, Business Development Manager ELG Carbon Fibre
Title: Composites Sustainability
Organiser: Clive Winby
Joint badge: Manchester Area

Clive Winby reported that the original speaker had left the company but had provided a replacement, so the event is still scheduled to go ahead.
Winby took an action to obtain the required information and images for publicising the event.  

**Action: Clive Winby**

Rebecca took an action to create an event flyer and add the information to the website and circulate to the region.  

**Action: Rebecca Donald-Lopez**

The event has been changed from Composites event 3 to 2, as event 2 has been postponed.

### 7.4 Air Accident Investigation

| Date: | WAS Tuesday 2nd June 2015 NOW TBD |
| Venue: | Lecture Theatre Warton |
| Time: | TBD |
| Speaker: | Keith Conradi Chief Inspector of the AAIB in Farnborough |
| Title: | Air Accident Investigation |
| Organiser: | Martin Baxter |

Martin Baxter reported that Keith Conradi the chief inspector at the AAIB had initially agreed to do a talk on the 2nd of June and the Lecture Theatre at BAE SYSTEMS Warton had been booked as a venue with a hope that BAE SYSTEMS would be able to tie in the event with a meeting and therefore pay for transport for Mr Conradi. The AAIB office has since been in touch with Martin stating that Mr Conradi will be in Germany on the 2nd of June so the date of this talk will need to be re-arranged. Martin Baxter took an action to contact AAIB and agree the date of talk.  

**Action: Martin Baxter**

### 8 EVENTS & ACTIVITIES PROGRAMME - 2015/ 2016

#### 8.1 York Aviation Museum Visit on “Rolling Thunder Day”

| Date: | Bank holiday Monday 31st August 2015 |
| Venue: | York Aviation Museum, Elvington |
| Title: | York Aviation Museum Visit on “Rolling Thunder Day” |
| Organiser: | Rebecca & Manuel Donald-Lopez |

“Rolling Thunder Day” involves fast jet taxi runs and propeller driven aircraft starts. Featuring the WWI Eastchurch Kitten; WWI SE5a; WWII Douglas Dakota; post war De Havilland Devon; Blackburn Buccaneer; Nimrod XV250 and Victor XL231.  

Rebecca reported that the admission charge for groups (pre-booked) of 8 or more is £5 (£8 normally). Rebecca Donald-Lopez took an action to research coach/mini bus prices. It was suggested that the coach leave from Preston with a couple of pick up points along the way.

#### 8.2 Visit to Airbus at Broughton

Ivan Dean took an action to find out if Airbus is still running tours of its Broughton site.  

**Action: Ivan Dean**
8.3 Airworthiness – Nimrod, the Haddon-Cave inquiry

There is no news via Euan Mason from Tim Brant regarding this event however it was reported that Angie Bines from Lancashire Area is in the process of organising an Airworthiness event and it was decided that it should be joint badge with ANW.

8.4 Autonomous vehicles

Ivan Dean reported that HQ is organising a UAV event.

8.5 Undercarriage by APPH in Runcorn

Rebecca took an action to ask Martin Hyman for contacts at APPH. **Action: Rebecca Donald-Lopez**

8.6 Bloodhound

Ivan Dean reported that south Cumbria Area is running a Bloodhound event.

9 ANY OTHER BUSINESS

9.1 RAeS Activities

Thurai Rahulan reported that there is only one more RAeS Manchester Branch event left this calendar. Thurai also reported that he is to be the new Manchester Branch Chairman. The committee agreed that we need more joint events with RAeS Preston and Manchester Branch.

10 AEROSPACE EVENTS ORGANISED BY OTHERS

See Appendix 3.

11 DATE OF NEXT MEETING

Next meeting: **Monday 18th May 2015**– at David Lloyd Club, Whittle le Woods, Chorley at 18:00 for 18:30.

12 DATE OF PROPOSED IMECE COMMITTEE MEETINGS 2015

- Monday 19 January 2015
- Monday 2 March 2015
- Monday 20 April 2015
- Monday 18 May 2015
- Monday 29 June 2015
- Monday 7 September 2015
- Monday 19 October 2015
- Monday 7 December 2015

http://nearyou.imeche.org/near-you/UK/North-Western/Aerospace-North-West
13 AEROSPACE DIVISION MEETINGS

Aerospace Board Meetings

- Monday 26 January 2015
- Monday 20 April 2015
- Monday 23 June 2015
- Monday 09 November 2015

Aero Division Technical Committee Meeting

- Monday 23 March 2015

14 REGIONAL MEETINGS

- Monday 16 March 2015 NWR AGM
- Monday 13 April 2015
- Monday 6th July 2015

Minutes taken by:
Rebecca Donald-Lopez
Hon Secretary IMechE Aerospace North West
20th April 2015
## Appendix 1

### IMechE ANW 2014/2015 Programme

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>VENUE</th>
<th>TITLE</th>
<th>LECTURER</th>
<th>ORGANISER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 29th September 2014</td>
<td>18:00</td>
<td>P&amp;M Aviation Rochdale</td>
<td>Micro light factory tour Repeat event</td>
<td>Roger Patrick</td>
<td>Thurai Rahulan assisted by Martin Hyman</td>
</tr>
<tr>
<td>Wednesday 8th October 2014</td>
<td>19:30</td>
<td>Canberra Club Samlesbury</td>
<td>Additive Layer Manufacturing</td>
<td>Mike Murray Head of Airframe Integration, Air Platform, MAI, BAE Systems</td>
<td><strong>Joint</strong> with RAeS Preston Branch</td>
</tr>
<tr>
<td>Wednesday 19th November 2014</td>
<td>18:30 for 19:00</td>
<td>Canberra Club Samlesbury</td>
<td>Advanced Aerospace Manufacturing</td>
<td>Jon Carberry, BAE Systems</td>
<td><strong>Joint</strong> with Lancs Area R Cook R Donald-Lopez</td>
</tr>
<tr>
<td>Friday 20th March 2015</td>
<td>13:30 for 14:00</td>
<td>Fire Training Centre Chorley</td>
<td>Fire Training Centre Visit</td>
<td>NA</td>
<td>Martin Baxter</td>
</tr>
<tr>
<td>Wednesday 22nd April 2015</td>
<td>18:00 for 18:30</td>
<td>Marriott Hotel, Manchester Airport, M56 Junction 6</td>
<td>Rolls-Royces Service Desk on Wing Monitoring of Engines</td>
<td>Matt Burns, Rolls Royce Head of Operational Service Desk</td>
<td>Clive Winby</td>
</tr>
<tr>
<td>Wednesday 27th May 2015</td>
<td>18:00 for 18:30</td>
<td>Canberra Club Samlesbury</td>
<td>Composites Event 2: Carbon Composites Sustainability</td>
<td>Alex Edge, Business Development Manager ELG Carbon Fibre</td>
<td>Clive Winby <strong>Joint</strong> Badge with Manchester Area</td>
</tr>
<tr>
<td>Saturday 27th June 2015</td>
<td>-</td>
<td>University of Central Lancashire, Preston</td>
<td>Lancashire Science Festival</td>
<td>NA</td>
<td>Lancashire &amp; YMP</td>
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</table>
# Appendix 2

## IMechE ANW 2015/2016 Programme

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>VENUE</th>
<th>TITLE</th>
<th>LECTURER</th>
<th>ORGANISER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 31st August 2015</td>
<td>TBD</td>
<td>York Aviation Museum, Elvington</td>
<td>York Aviation Museum Visit on “Rolling Thunder Day”</td>
<td>NA</td>
<td>Rebecca &amp; Manuel Donald-Lopez</td>
</tr>
<tr>
<td>Wednesday 14th October 2015</td>
<td>19:30 - 21:00</td>
<td>Canberra Club Samlesbury</td>
<td>Taranis Flight Testing</td>
<td>TBD</td>
<td>Joint Badge with RAeS Preston Branch</td>
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<td>November 2015</td>
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<tr>
<td>January 2016</td>
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<td>February 2016</td>
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<tr>
<td>May 2016</td>
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<tr>
<td>TBD 2015</td>
<td>18:00 for 18:30</td>
<td>Lecture Theatre BAE Systems Warton</td>
<td>Air Accident Investigation</td>
<td>Keith Conradi Chief Inspector of the AAIB</td>
<td>Martin Baxter</td>
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<tr>
<td>TBD 2015</td>
<td>TBD</td>
<td>Kaman, Darwen</td>
<td>Composites Event 3: Carbon Composites Manufacture</td>
<td>Visit to Kaman Composites UK</td>
<td>Martin Hyman</td>
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Appendix 3

ANW Finances

Projected Expenditure for period January 2015 to December 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Expense Description</th>
<th>Credit ($)</th>
<th>Debit Predicted ($)</th>
<th>Balance Predicted ($)</th>
<th>Debit Actual ($)</th>
<th>Balance Actual ($)</th>
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<td>Dec-14</td>
<td>End Balance from 2013</td>
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<td>87.00</td>
<td>2412.39</td>
<td>86.00</td>
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<td>Mar-15</td>
<td>Fire Training Centre Visit</td>
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<td>2312.38</td>
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<td>2388.18</td>
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<td>Mar-15</td>
<td>Composite Event 2: Carbon Composites Manufacture</td>
<td>Venue Hire and Catering</td>
<td></td>
<td>100.00</td>
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<td>Apr-15</td>
<td>Committee Meeting</td>
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<td>87.00</td>
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<td>Apr-15</td>
<td>Rolls Royce Operational Service</td>
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<td>250.00</td>
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<td>May-15</td>
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<td>May-15</td>
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<td>Jun-15</td>
<td>Air Accident Investigation</td>
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<td>Dec-15</td>
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<td>Venue Hire and Catering</td>
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<td>100.00</td>
<td>377.38</td>
<td></td>
<td>2145.54</td>
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</tbody>
</table>

| | Total Meeting Costs | 709.00 | 198.20 |
| | Total Events Costs | 1500.00 | 0.00 |
| | Total Equipment Costs | 0.00 | 242.64 |
| | Total Expenditure for Year | 2209.00 | 440.84 |
| | Year End Balance | 377.38 | 2145.54 |
### Nat West Account Ledger

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<th>Running Balance</th>
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<td>Gifts for Speakers</td>
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**TOTAL**

|        |        |        | £2,145.54       |

Manuel Donald-Lopez  
Hon Treasurer  
IMechE Aerospace North West
Appendix 4

Aerospace Events organised by others 2015

RAeS Preston Branch Events

**BRANCH EVENT**
**FLYING THE SHUTTLEWORTH COLLECTION**
Preston Branch

**BRANCH EVENT**
**V22 OSPREY**
Preston Branch

**BRANCH EVENT**
**TYPE 45 DESTROYER**
Preston Branch

**BRANCH EVENT**
**TARANIS FLIGHT TESTING**
Preston Branch

**BRANCH EVENT**
**WESTLAND 100TH ANNIVERSARY**
Preston Branch

**BRANCH EVENT**
**US MILITARY SPACE PROGRAMMES**
Preston Branch

IMechE Aerospace Division Events

**JUNE 2015**

**Surface Engineering in Automotive and Aerospace Industries**

Date: **Wednesday, June 10, 2015 | Active Event**
Event Type: **1 day Seminar**
Location: **Leeds**

Hear how surface engineering is a valuable tool in achieving both better environmental sustainability and reduced whole life-cycle costs in the automotive and aerospace industries.

http://nearyou.imeche.org/near-you/UK/North-Western/Aerospace-North-West
Smart Satellites 2015: From Up There To Down Here

Date: Thursday, June 25, 2015 | Active Event
Event Type: 1 day Seminar
Location: Leicester

Coinciding with the Institution's first report on the UK Space Strategy, this seminar will highlight the R&D and technology required to meet the space challenge.

Advances in Composite Materials - Engineering Sustainability

Date: Thursday, October 08, 2015 | Active Event
Event Type: 1 day Seminar
Location: Bristol

This event joins the research leaders from industry and academia in advanced composite manufacturing to address scientific challenges and accelerate developments of composites technologies.

REGIONAL EVENTS

MAY 2015

Aircraft Testing and the Brimstone Missile Lecture

Date: Thursday, May 14, 2015
Event Type: 0 day Technical Lecture
Location: Amesbury, Salisbury

This event is ideal for anyone interested in Qinetiq and the projects they are currently undertaking You will gain an understanding of the Brimstone Missile and aircraft testing You will earn 3 CPD hours You will have the opportunity to network with peers Cost Free to attend

http://nearyou.imeche.org/near-you/UK/North-Western/Aerospace-North-West
The use of composite materials in aircraft engines - RAeS Cambridge

Date: Thursday, May 14, 2015
Event Type: 0 day Talk
Location: Cambridge

David Cook will discuss the applications of composites within aircraft engines and how new composite materials may influence the design of future engines and aircraft. (RAeS Cambridge)

Concorde – an incredible aircraft

Date: Thursday, May 21, 2015
Event Type: 0 day Technical Lecture
Location: Rotherham

Learn more about some of the more interesting technical features of the aircraft and a typical commercial flight from London to New York from the pilot’s perspective.

Skylon - The Future of Space Transportation - IET

Date: Thursday, June 04, 2015
Event Type: 0 day Talk
Location: Cambridgeshire

Dr Robert Bond of Reaction Engines will discuss the need for better space transportation and the SKYLON solution to the problem (IET Eastern Region)

Weekday Technical Visit: Airbus: ‘Space Craft don’t just happen’

Date: Thursday, June 11, 2015
Event Type: 0 day Technical Visit
Location: Portsmouth

A visit to Airbus (Astrium) in Portsmouth
**Forty Years of the Hawk - RAeS Cambridge**

Date: **Thursday, September 10, 2015**  
Event Type: **0 day Talk**  
Location: **Cambridge**

John Newton and Steve Blee of BAE Systems will talk about the Hawk aircraft. (RAeS Cambridge)