IMechE Aerospace North West

Meeting Minutes

A meeting of the IMechE Aerospace North West committee was held on Monday 24th March 2017 at David Lloyd Club, Chorley. The meeting commenced at 18:30 till 20:30.

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Paul Gardner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice Chairman</td>
<td>Arreyhon Alemi</td>
</tr>
<tr>
<td>Immediate Past Chairman</td>
<td>Euan Mason</td>
</tr>
<tr>
<td>Hon Secretary</td>
<td>Rebecca Donald-Lopez</td>
</tr>
<tr>
<td>Hon Treasurer</td>
<td>Manuel Donald-Lopez</td>
</tr>
<tr>
<td>Committee members</td>
<td>Martin Baxter, Ivan Dean, Emma-Jane Guy, Martin Hyman, Andrew Medd, Iain Minton, Thurai Rahulan, Clive Winby</td>
</tr>
</tbody>
</table>

1  ANW ATTENDEES

- Arreyhon Alemi
- Martin Baxter
- Rebecca Donald-Lopez
- Paul Gardner
- Martin Hyman
- Andrew Medd
- Thurai Rahulan

Vice Chairman IMechE ANW
BAE SYSTEMS
BAE SYSTEMS / Hon Secretary IMechE ANW
Safran Nacelles / Chairman IMechE ANW
Business Consultant
Education Advisory Group
University of Salford / Royal Aeronautical Society

2  APOLOGIES WERE RECEIVED FROM

- Ivan Dean
- Manuel Donald-Lopez
- Emma-Jane Guy
- Clive Winby

Past Chairman IMechE ANW
BAE SYSTEMS / Hon Treasurer IMechE ANW
IMechE Business Development Manager North West
SILCOMS Ltd.

Paul Gardner reported that Emma Guy wishes to attend our meeting in June. **Action: Rebecca Donald-Lopez to inform Emma that the date of our meeting 26th June.**
3 MINUTES FROM THE LAST MEETING
The minutes from the last meeting (6 March 2017) were agreed to be the true and accurate record.

4 REVIEW OF ACTIONS FROM LAST MEETING

4.1 Manuel to make enquiries regarding the £1500 as it may be an error.
   Manuel is waiting to hear back from HQ. **Action carried over.**

4.2 Paul Gardner to update the wording on the front page of the ANW website.
   No changes made yet. **Action carried over.**

4.3 Rebecca Donald-Lopez to add all our meetings to the web site as events, in order to encourage new committee members.
   No changes made yet. **Action carried over.**

4.4 Paul Gardner and Martin Hyman to tweet our future events then review in a month.
   Paul Gardner reported that he ‘reached’ 400 people with his tweet of the Kaman tooling event in February. It was decided to continue ‘tweeting’ the events.  
   **Action:** Paul & Martin Hyman to ‘tweet’ the Reaction Engines event.  
   **Action:** Rebecca took an action to add a button to future event booking pages to ask where people heard about the event.

4.5 Martin Hyman to confirm room and order refreshments at MMU, for reaction engines lecture.
   **Action complete.** See section 7.1.

4.6 Clive Winby to check availability of Ian Davies on Tuesday’s in June 2017.
   No update received. Bolton University has been decided as the event venue. Rebecca to follow up with Clive. **Action carried over.**  
   **Action:** Rebecca to contact Peter Myler regarding the venue.
4.7 Thurai to ask Rashid if he could split his UAS Challenge talk into two parts: rules & regulation and emerging technology. Thurai also check Rashid’s availability for Tuesday 3rd & 10th October 2017.

It was decided that one event should be held on Wednesday 4th October, but split into two halves. See section 7.4.
Action: Thurai to check this date is acceptable with Rashid.

4.8 Thurai Rahulan to check availability of Guy Gratton on Tuesday’s in November 2017.
Action Complete. Thurai received an email from Guy Gratton, saying that he would prefer the event wasn’t on a Tuesday and that the only other date he couldn’t do was 15th Nov. Therefore Wednesday 22nd November was proposed as a date. It was decided we would like Guy to talk about the development of the test aircraft and what they do with it. Also see section 7.6.
Action: Thurai to confirm this with Guy Gratton.

4.9 Ivan Dean to go back to Mike Wallace and fix a date for a visit to Rolls Royce Barnoldswick
Ivan Dean has been in contact with Mike Wallis regarding the visit to Rolls Royce at Barnoldswick and he has agreed to a date in October. The committee decided that a Friday visit would be best, avoiding the last week in October due to half term (for information the UAS event is Wed 4th Oct). Ivan Dean to check which Friday in Oct is preferable to Mike.
Action carried over.

4.10 Martin Baxter to try one more time to get a response from Fleetwood Helicopter Rig
Martin has still had no response after his initial contact. If no response by next meeting, we will re-consider this next year, approaching a different contact.
Action carried over.

4.11 Paul Gardner to confirm date for visit to Velocity Composites.
Paul still to follow up.
Action carried over.
5 TREASURERS REPORT

Manuel Donald-Lopez reported the current financial status which was a balance of £5064.63.

Action: Manuel to feedback answer from HQ regarding the £1500 as it may be an error.

6 FEEDBACK FROM REGION/DIVISION/HQ MEETINGS

Paul Gardner reported that there was finally some action taking place with the Aerospace Division events team, regarding event planning changes. Prestige or flagship lectures will still need to go through the HQ marketing team, however all other events now won’t need to. This gives much more freedom and will allow ‘free to attend’ events to be held. AMSTAC are currently arranging a webinar in June, themselves, which will now be free to attend.

The Aerospace Division AGM will be held on the evening 23rd May and Frank Kirkland will be presenting a lecture on the Development of the Trent engine.

Action: Paul Gardner to ask Frank if he will repeat this event in the North West.

There is an ongoing activity among the Members Outreach Committee aimed at getting regions working more closely together.

Action: Rebecca to copy our events to Nikki Barker (Regional Secretary) from Merseyside & North Wales region, in order to aid the above.

22 teams have entered UAS Challenge this year, which will be in Wales. There is a call for fresh blood for the organising committee/event support, as a few members are retiring. It is now self-funding through sponsorship and 60 volunteers support the event.

Action: Paul Gardner to find out the date of the event.

7 EVENTS & ACTIVITIES PROGRAMME - 2016/2017

It was decided that the preferred day for events to be held is a Tuesday.

7.1 Reaction Engines

Title: SABRE - Next Generation Hypersonic Propulsion
Speaker: Mark Wood COO & Engineering Director, Reaction Engines Ltd.
Date: Tuesday 23 May 2017
Venue: MMU, Room JDE0.32, John Dalton Building
Time: 18:00 for 18:30
Organiser: Martin Hyman
Martin Hyman has secured the event venue, speaker and provided Rebecca with the promotion material. Rebecca has added the event to the website, created a poster and submitted to the regional secretary for disseminating to the region.

**Action:** Rebecca to bring gift for speaker and ANW stands to the next meeting for Martin to use at the event.

### 7.2 Easy Jet

**Title:** Ash to Ash, Dust to Dust  
**Speaker:** Ian Davies, Head of Engineering, Easy Jet  
**Date:** TBC June 2017  
**Venue:** Bolton University  
**Time:** 18:00 for 18:30  
**Organiser:** Clive Winby

As per action 4.6, Bolton University has been decided as the event venue.

**Action:** Clive Winby to check availability of Ian Davies on Tuesday’s in June 2017.

**Action:** Rebecca to contact Peter Myler regarding the venue and parking arrangements.

### 7.3 SAFRAN Nacelles Visit

**Date:** TBC September 2017  
**Venue:** SAFRAN Nacelles Burnley  
**Time:**  
**Organiser:** Paul Gardner

**Action:** Paul Gardner to find out if we can have a site visit in September to see the automated fibre placement machine.

### 7.4 UAS Challenge Lecture

**Title:**  
**Date:** 4 October 2017  
**Venue:** Salford University  
**Time:** 5:00 – 6:00pm Competition Rules & Regulations  
6:00 – 6:30pm Break for Refreshments  
6:30 – 7:30pm Emerging Technologies  
**Organiser:** Thurai Rahulan

It was decided that one event should be held on Wednesday 4th October, but split into two halves. Wednesdays are best as the students finish early at 1pm. The timings were decided as above, and the venue as Salford University.
Action: Thurai to book room & food.
The first half of the lecture will be on rules & regulation and the second half on emerging technologies from lessons learnt.
Action: Thurai to check if 4th October 2017 is ok with Rashid.

Thurai reported that RAeS Manchester Branch would like to joint badge this event with us in terms of publicity. The committee agreed to this.

7.5 Rolls Royce Barnoldswick Visit
Date: Friday afternoon TBD October 2017
Venue: Rolls Royce Barnoldswick
Time: TBD
Organiser: Ivan Dean

See action 4.9.

7.6 FAAM
Title: ??
Speaker: Guy Gratton
Date: 22nd November 2017
Venue: Manchester MMU
Time: 18:00 for 18:30
Organiser: Thurai Rahulan

The date was decided as 22nd Nov 2017. It was also decided we would like Guy to talk about the development of the test aircraft and what they do with it.

Action: Thurai to confirm date and topic with Guy Gratton.

Thurai reported that RAeS Manchester Branch would also like to joint badge this event with us in terms of publicity. The committee agreed to this.

Action: Rebecca to ensure Members/Non-members check boxes are activated on the event booking website.

It was decided that we would again like to also have joint events with Preston Branch. In order to facilitate this we would like a RAeS Preston Branch representative to sit on our committee in lieu of Graham Roe.

Action: Thurai to ask Preston Branch chair if we could have a rep. on our committee. We would also like to fix a month or 2 each year in which to hold joint events.
7.7 Velocity Composites

Date: TBD 2018  
Venue: Velocity Composites, AMS Technology Park, Billington Road, Burnley, BB11 5UB  
Time: Friday Afternoon

Action: Paul Gardner working to confirm date for a visit.

7.8 Other ideas

7.8.1 MBDA  
Andrew Medd reported that MBDA are not running visits again until August 2017.

7.8.2 Unmanned Aerial Vehicles (UAV) - British Antarctic Survey  
Martin Hyman suggested a lecture on the Unmanned Aerial Vehicles (UAV) used for the British Antarctic Survey. He reported that they are based in Cardiff and are willing to present a lecture. 
Action: Martin Hyman to ask if they would bring the drone with them, if the Antarctic work was complete and if they would be willing to present the lecture in March 2018, in Chorley at the David Lloyd club. Martin also to check with David Lloyd.

7.8.3 Airbus Beluga XL  
Thurai Rahulan reported that a replacement for the Airbus Beluga is currently being built.  
It is called the Airbus Beluga XL and is based on the A330-200 airliner, with 30% more capacity than the existing five Belugas. A lecture on this was suggested.

For a list of other ideas see appendix 3

8 ANY OTHER BUSINESS

8.1 Old IMechE Merchandise  
Paul Gardner reported that he had a box of IMechE merchandise with the old logo on.  
Action: Paul to bring the box of merchandise to the next meeting, to see if anybody would like any of it.
DATE OF NEXT MEETING

Next meeting: **Monday 22nd May 2017** – at David Lloyd Club, Whittle le Woods, Chorley at **18:00 for 18:30.**

DATE OF PROPOSED IMECHE COMMITTEE MEETINGS 2017

- Monday 23 January 2017
- Monday 6 March 2017
- Monday 24 April 2017
- Monday 22 May 2017
- Monday 26 June 2017
- Monday 4 September 2017
- Monday 23 October 2017
- Monday 4 December 2017

Minutes taken by:
Rebecca Donald-Lopez
Hon Secretary IMechE Aerospace North West
24th April 2017
### Appendix 1

**IMechE ANW 2017 Programme**

* TUESDAY is the preferred day for events to be held

<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><strong>Wednesday 15 February 2017</strong></td>
<td>18:00 for 18:30</td>
<td>Canberra Club, BAE Systems Samlesbury</td>
<td>Hybrid Air Vehicles</td>
<td>Tom Grundy Operations Director at HAV</td>
<td>Lancashire Area</td>
</tr>
<tr>
<td><strong>Friday 24 February 2017</strong></td>
<td>10:00 – 12:30</td>
<td>Kaman Tooling Burnley BB10 2FT</td>
<td>Visit to Kaman Tooling Burnley</td>
<td>NA</td>
<td>Martin Hyman</td>
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<tr>
<td><strong>Friday 31 March 2017</strong></td>
<td></td>
<td>Hilton Hotel Manchester</td>
<td>North West Region Annual Dinner</td>
<td>NA</td>
<td>Region</td>
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<tr>
<td><strong>Tuesday 23 May 2017</strong></td>
<td>18:00 for 18:30</td>
<td>MMU Room JDE0.32 John Dalton Building</td>
<td>Reaction Engines</td>
<td>Mark Wood COO &amp; Engineering Director, Reaction Engines Ltd.</td>
<td>Martin Hyman</td>
</tr>
<tr>
<td><strong>TBD June 2017</strong></td>
<td>18:00 for 18:30</td>
<td>Bolton University</td>
<td>Ash to Ash, Dust to Dust</td>
<td>Ian Davies Easy Jet</td>
<td>Clive Winby</td>
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<tr>
<td><strong>TBD September 2017</strong></td>
<td></td>
<td>SAFRAN Nacelles Burnley</td>
<td>Visit to SAFRAN Nacelles</td>
<td>Paul Gardner</td>
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<tr>
<td><strong>Wednesday 4 October 2017</strong></td>
<td>18:00 for 18:30</td>
<td>Salford University</td>
<td>UAS Challenge Talk</td>
<td>Rashid Ali UAS Challenge Committee Academic &amp; Finance lead</td>
<td>Thurai Rahulan Joint with RAeS Manchester</td>
</tr>
<tr>
<td><strong>Any Friday afternoon in October</strong></td>
<td>Friday afternoon</td>
<td>Rolls Royce Barnoldswick</td>
<td>Visit to Rolls Royce Barnoldswick</td>
<td>Contact: Mike Wallace</td>
<td>Ivan Dean</td>
</tr>
<tr>
<td><strong>Wednesday 22 November 2017</strong></td>
<td>18:00 for 18:30</td>
<td>MMU</td>
<td>FAAM</td>
<td>Guy Gratton FAAM</td>
<td>Thurai Rahulan Joint with RAeS Manchester</td>
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<tr>
<td><strong>TBD 2018</strong></td>
<td>Friday afternoon</td>
<td>Velocity Composites, Billington Rd Burnley</td>
<td>Visit to Velocity Composites</td>
<td>NA</td>
<td>Paul Gardner</td>
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<tr>
<td><strong>TBD</strong></td>
<td></td>
<td>FOSC Fleetwood FY7 8JZ</td>
<td>Visit to FOSC Fleetwood Offshore Survival Centre</td>
<td>NA</td>
<td>Martin Baxter</td>
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## Appendix 2

### ANW Finances

<table>
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<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>
<th>Notes</th>
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<tr>
<td>Dec-16</td>
<td>End Balance from 2016</td>
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<td></td>
<td>3077.88</td>
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<tr>
<td>Jan-17</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering</td>
<td>104.00</td>
<td>2973.88</td>
<td>84.60</td>
<td>2909.28</td>
<td>Less attendees than usual</td>
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<tr>
<td>Feb-17</td>
<td>Grant Payment</td>
<td>Grant from HQ</td>
<td>2230</td>
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<td>Feb-17</td>
<td>Korean Tocking Burnley</td>
<td>N/A</td>
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<td>6220.98</td>
<td>0.00</td>
<td>6220.98</td>
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<tr>
<td>Mar-17</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering</td>
<td>104.00</td>
<td>5129.88</td>
<td>88.65</td>
<td>5164.63</td>
<td>Less attendees than usual</td>
<td></td>
</tr>
<tr>
<td>Mar-17</td>
<td>Rolls Royce Barloldswick</td>
<td>N/A</td>
<td>0.00</td>
<td>5129.88</td>
<td>5164.63</td>
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<td>Mar-16</td>
<td>North West Region Annual Dinner</td>
<td>Ticket Purchase</td>
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<td>Committee Meeting</td>
<td>Venue Hire and Catering</td>
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<td>Apr-17</td>
<td>Fleetwood Offshore Survival Centre</td>
<td>N/A</td>
<td>0.00</td>
<td>4925.88</td>
<td>5064.63</td>
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<tr>
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<td>Committee Meeting</td>
<td>Venue Hire and Catering</td>
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<td>5064.63</td>
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<tr>
<td>May-17</td>
<td>Reaction Engines Lecture</td>
<td>Venue Hire and Catering</td>
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<td>4921.88</td>
<td>5064.63</td>
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<td>Jun-17</td>
<td>Ash to Ash, Dust to Dust Lecture</td>
<td>Venue Hire and Catering</td>
<td>400.00</td>
<td>4021.88</td>
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<td>Committee Meeting</td>
<td>Venue Hire and Catering</td>
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<td>Oct-17</td>
<td>UAS Challenge Lecture</td>
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<td>FAAM Lecture</td>
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<td>Committee Meeting</td>
<td>Venue Hire and Catering</td>
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<td>2589.88</td>
<td>5064.63</td>
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| Total Meeting Costs | 948.00 | 84.60 |
| Total Events Costs  | 1700.00| 100.00|
| Total Equipment Costs| 0.00  | 0.00  |
| Total Expenditure for Year | 2648.00 | 194.60 |
| Year End Balance    | 2986.88| 5064.63|

http://nearyou.imeche.org/near-you/UK/North-Western/Aerospace-North-West
## Nat West Account Ledger

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<thead>
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<th>Description</th>
<th>Credit</th>
<th>Debit</th>
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<td>£2,993.26</td>
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<td>March Committee Meeting</td>
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**TOTAL**

|                  |        |       | £5,064.63       |

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Manuel Donald-Lopez  
Hon Treasurer  
IMechE Aerospace North West
Appendix 3 - Wish List of Future Events

- Clean Sky 2 - compound helicopter
- Rolls Royce Engine Lecture
- Aero Gearbox International
- Wind Turbine Blades - Siemens have recently opened a factory in Hull.
- Manchester Airport Black Museum Visit – Clive Winby WIP
- Concorde & Son of Concorde – Next generation supersonic aircraft & Concorde Visit
- Subsidized visit to Concorde only– Aviation viewing park
- Nimrod replacement talk & visit – Aviation viewing park
- Helicopters – accidents in the North Sea (RAeS to cover in February)
- Model Aircraft
- UAV’s
- Maintenance
- Aircraft ducting
- Aircraft de-icing
- Aerodynamics
- Warton Wind Tunnel Tour
- Hawk hook on AC carriers
- Hawk systems into a new airframe
- F35 Aircraft Carrier operations
- Hot Air Balloon lecture possibly combined with Balloon Festival
- Hand Glider Material
- Woodford Flight Simulator – Oxford Aviation
- Rolls Royce Engine Lecture (2021 development and 2025 Ultrafan)
- Aerial Survey/Google Maps
- New MBDA factory tour
- Rolls Royce Engine Lecture (2021 development and 2025 Ultrafan)
- Space Tourism
- The Crash Detectives (book by Christine Negroni)
- Use of Drones in Fire and Police

http://nearyou.imeche.org/near-you/UK/North-Western/Aerospace-North-West