IMechE Aerospace North West

Meeting Minutes

A meeting of the IMechE Aerospace North West committee was held on Monday 4th December 2017 at David Lloyd Club, Chorley. The meeting commenced at 18:30 till 20:30.

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

Arreyhon Alemi            Vice Chairman IMechE ANW
Martin Baxter             BAE SYSTEMS
Rebecca Donald-Lopez      BAE SYSTEMS / Hon Secretary IMechE ANW
Paul Gardner              Safran Nacelles / Chairman IMechE ANW
Martin Hyman              Business Consultant
Andrew Medd               Education Advisory Group
Thurai Rahulan            University of Salford / Royal Aeronautical Society

2 APOLOGIES WERE RECEIVED FROM

Ivan Dean                 Past Chairman IMechE ANW
Manuel Donald-Lopez       BAE SYSTEMS / Hon Treasurer IMechE ANW
Clive Winby               SILCOMS Ltd.

3 MINUTES FROM THE LAST MEETING

Correction to minutes from last meeting: Paul Gardner didn’t attend the last meeting and Martyn Shaw spelling correction. All other aspects of the minutes from the last meeting were agreed to be the true and accurate record.
4 REVIEW OF ACTIONS FROM LAST MEETING

4.1 Manuel Donald-Lopez to pay the catering invoice for the UAS Challenge lecture. Manuel hasn’t received the invoice for catering. Thurai Rahulan has chased this but the invoice still hasn’t arrived. Action carried over.

4.2 Rebecca Donald-Lopez to produce poster for FAAM event and send to region. Action complete.

4.3 Rebecca Donald-Lopez took an action to provide Thurai Rahulan with a thank you gift for the speaker. Action complete.

4.4 Clive Winby to confirm a preferred date with to Ian Davies (between 17th of Jan, 7th or 21st of Feb). No word from Clive, however as there are now two events in January, Rebecca took an action to ask Clive Winby to push for 21st February for the Easy Jet event. Action carried over (C Winby) & New action (R Donald-Lopez)

4.5 Rebecca Donald-Lopez to book the room at Bolton Uni once the date is decided for Easy Jet lecture. Action carried over.

4.6 Paul Gardner to confirm date and venue for the Trent Engine talk with Frank Kirkland (late Jan or Feb 18, preferably UCLAN). Paul reported that Frank has proposed 18 Jan, 6 Feb or 7 Feb. Action complete. New Action: The preferred date for Trent Engine talk was decided as 18 January 2018 as the February dates clash with another event. Paul Gardner to confirm this date with Frank Kirkland.

4.7 Rebecca Donald-Lopez to look for the original advertising material used for the original Trent Engine event. Action complete.

4.8 Paul Gardner to fix a date for a site visit in early to mid 2018 to Safran to see the automated fibre placement machine. Action carried over.
4.9 **Paul Gardner** to contact Burnley College and David Bailey from NWAA regarding links with NWAA and possibly spend some money to advertise or sponsor something at an NWAA event. Paul Gardner reported that there has been no progress with David Bailey and NWAA as there hasn’t been the right opportunity to discuss it yet. NWAA hold regular member supply chain events which might be an opportunity to distribute our flyers and display our stand. Martin Hyman suggested that we have a stand at their annual conference at the Dunkenhalgh Hotel. Paul will discuss the above when he next meets with David. 
**Action carried over.**

4.10 **Martin Hyman** to contact Martyn Shaw from Bolton University and see if he would be interested in joining the committee. Martin Hyman reported that Martyn Shaw from Bolton University is happy to have a chat about further links with the committee. Martin is hoping to have a meeting with him before the end of the year. 
**Action carried over.**

4.11 **Rebecca Donald-Lopez** to contact Billy Beggs, UCLan’s Engineering Innovation Manager for a possible link with the committee. 
**Action carried over.**

4.12 **Clive Winby** took an action to contact Peter Thomas and find out what facilities the Engineering Innovation Centre will have. 
**Action carried over.**

4.13 **Arreyhon Alemi** to discuss ‘the last Spitfire’ with Paul Gardner. Arreyhon discussed this with Paul. 
**Action complete.**

**New Action Paul Gardner:** Spitfire simulator Blackpool. Paul Gardner reported that he hasn’t yet got a contact, but will let us know if/when he has anything.

4.14 **Rebecca Donald-Lopez** to talk to Andrew Medd about approaching MBDA for a visit. Discussion took place at the meeting. 
**New Action:** Andrew Medd to pass on MBDA contact details to Paul Gardner. Paul is going into the new facility to do some ‘bench marking’ and will try to get us a visit to the facility.

4.15 **Rebecca Donald-Lopez** to obtain the Christmas menu for the next meeting and suggest 2018 meeting dates. Christmas menu provided, meeting dates still to be determined. 
**Action carried over.**
5 AEROSPACE DIVISION & HQ UPDATES
Paul Gardner reported that there is no report from Aerospace HQ as the minutes have not yet been received.

6 IMPROVING LINKS WITH ACADEMIA
See sections 4.9, 4.10, 4.11 & 4.12.

7 EVENTS & ACTIVITIES PROGRAMME - 2017

7.1 FAAM – Joint with RAeS Manchester Branch – Event Review
Title: Flying for Science
Speaker: Guy Gratton
Date: 22nd November 2017
Venue: Room C0.14 in Newton Building MMU
Time: 18:00 for 18:30
Organiser: Thurai Rahulan / Martin Hyman

Thurai Rahulan reported that the event was a smashing success and the talk was most enlightening and very well received. He reported that 69 people attended the event and the majority were from IMechE. It was reported as ‘one of the best lectures in a long time’. It was thought that high numbers were due to the venue as well as the excellent speaker. It was thought to be a good lecture to be repeated in the future, as there will always be new content.
Action: Rebecca Donald-Lopez to check if Manuel has received the invoice.

8 EVENTS & ACTIVITIES PROGRAMME - 2018

The preferred day for events to be held is a Tuesday.

8.1 Emergency Service Drone Use
Date: Wednesday 10th January 2018
Venue: UCLAN
Time: 13:30 for 14:00
Organiser: Martin Baxter

Martin Baxter reported that Lancashire Fire & Rescue said that they were very busy but were happy for us to share their event on drone usage. Martin has produced all the advertising material and poster.
Action: Rebecca Donald-Lopez to send advertising material and poster out to the region before the Christmas break.
Martin reported that he has told Lancashire Fire & Rescue that ANW are happy to pay for the teas and coffees.
Action: Martin Baxter to take the stands from Thurai at this meeting.
Action: Rebecca Donald-Lopez to provide Martin with two gifts for the speakers.

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

Improving the world through engineering
Page 4 of 10
8.2 Trent Engine
Date: 18th January 2018
Speaker: Frank Kirkland
Venue: MMU, Room JDT0.03, John Dalton Building
Time: 6:00 for 6:30
Organiser: Paul Gardner

See 4.6. It was decided that the best venue to attract a good audience for this event was MMU. The preferred date for this event was decided as 18 January 2018 as the February dates clash with another event. Paul Gardner to confirm this date with Frank Kirkland (4.6).

**Action:** Martin Hyman to book a room at MMU and refreshments for 30 after receiving confirmation from Paul regarding the date.

**Action:** Martin Hyman to email Georgina Harris (cc Dr Sravanthi Sashikumar) and ask for the event to be publicised in the University.

**Action:** Paul Gardner to tweet the event to the IMechE events team.

8.3 Easy Jet
Title: Ash to Ash, Dust to Dust
Speaker: Ian Davies, Head of Engineering, Easy Jet
Date: TBC 21st of Feb 2018
Venue: Bolton University
Time: 18:00 for 18:30
Organiser: Clive Winby

See 4.1 and 4.2.

**Action:** Rebecca Donald-Lopez to ask Clive Winby to push for 21st February for the Easy Jet event.

**Action:** Clive Winby to ask Ian Davis if he is happy with 21st February for the Easy Jet event.

8.4 Unmanned Aerial Vehicles (UAV) - British Antarctic Survey
Title: Unmanned Aerial Vehicles (UAV) - British Antarctic Survey
Speaker: TBD
Date: Wednesday 21st March 2018
Venue: David Lloyd Club Chorley
Time: 18:00 for 18:30
Organiser: Martin Hyman

Room is booked and access is acceptable to get UAV into the David Lloyd club.
8.5 SAFRAN Nacelles Visit
Date: TBC early to mid 2018
Venue: SAFRAN Nacelles Burnley
Time:
Organiser: Paul Gardner

8.6 Other Events

8.6.1 Samlesbury ASK Visit
The possibility of a visit to the new ASK (Academy for Skills and Knowledge) facility at BAE Systems Samlesbury was discussed.

8.6.2 Uber Vertical Taxi
Martin Hyman suggested this as a possible future event.

8.6.3 British Inventor Richard Browning – Jet Suit world Record
Martin Baxter suggested Richard Browning as a possible lecture. He holds the record for the fastest speed in a body-controlled jet engine power suit.

9 ANY OTHER BUSINESS

9.1 Aerospace Division AGM
Paul Gardner reported that the Aerospace division AGM in May, no longer plan to use the Reaction Engines event. The new lecture is regarding systems aspects of electric aircraft.

10 DATE OF NEXT MEETING

Next meeting: Monday 22nd January 2018 – at David Lloyd Club, Whittle le Woods, Chorley at 18:00 for 18:15.
Thurai Rahulan conveyed his apologies for 22nd January.

11 DATE OF PROPOSED IMECHE COMMITTEE MEETINGS 2018

- Monday 22 January 2018
- Monday 5 March 2018
- Monday 16 April 2018
- Monday 21 May 2018
- Monday 2 July 2018
- Monday 3 September 2018
- Monday 15 October 2018
- Monday 3 December 2018
Minutes taken by:
Rebecca Donald-Lopez
Hon Secretary IMechE Aerospace North West
4th December 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>
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</thead>
<tbody>
<tr>
<td>Wednesday 15 February 2017</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>
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<tr>
<td>Friday 24 February 2017</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>
</tr>
<tr>
<td>Friday 31 March 2017</td>
<td></td>
<td>Hilton Hotel Manchester</td>
<td>North West Region Annual Dinner</td>
<td>NA</td>
<td>Region</td>
</tr>
<tr>
<td>Tuesday 23 May 2017</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>Wednesday 4 October 2017</td>
<td>17:00</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>Wednesday 22 November 2017</td>
<td>18:00 for 18:30</td>
<td>MMU Room JDC0.14 John Dalton Building</td>
<td>FAAM</td>
<td>Guy Gratton FAAM</td>
<td>Thurai Rahulan Joint with RAeS Manchester</td>
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## Appendix 2

**IMechE ANW 2018 Programme**

*TUESDAY is the preferred day for events to be held*

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Wednesday 10 January 2018</td>
<td>13:30 for</td>
<td>UCLAN</td>
<td>Emergency Service Drone Use</td>
<td>Martin Hyman</td>
<td>Joint with Fire Service</td>
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<td></td>
<td>14:00</td>
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<tr>
<td>Thursday 18 January 2018</td>
<td>18:00 for</td>
<td>MMU Room JDT0.03 John</td>
<td>Trent Engine</td>
<td>Frank Kirkland</td>
<td>Paul Gardner</td>
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<tr>
<td></td>
<td>18:30</td>
<td>Dalton Building</td>
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<tr>
<td>Wednesday TBC 21 Feb 2018</td>
<td>18:00 for</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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<td>18:30</td>
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<tr>
<td>Wednesday 21 March 2018</td>
<td>18:00 for</td>
<td>David Lloyd Club Chorley</td>
<td>Unmanned Aerial Vehicles (UAV) - British Antarctic</td>
<td>TBD</td>
<td>Martin Hyman</td>
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<tr>
<td></td>
<td>18:30</td>
<td>University</td>
<td>Survey</td>
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<td>TBD 2018</td>
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<td>SAFRAN Nacelles Burnley</td>
<td>Visit to SAFRAN Nacelles</td>
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<td>Paul Gardner</td>
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Appendix 3

Wish List of Future Events

- Samlesbury ASK Facility Visit
- Uber Vertical Taxi
- Jet Suit – Richard browning
- Airbus Beluga XL
- 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
- 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
- Avionics Lecture