IMEchE Aerospace North West

Meeting Minutes

A meeting of the IMechE Aerospace North West committee was held on **Monday 10th June 2019** at 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>David Entwistle</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</td>
</tr>
<tr>
<td></td>
<td>Billy Beggs</td>
</tr>
<tr>
<td></td>
<td>Ivan Dean</td>
</tr>
<tr>
<td></td>
<td>Martin Hyman</td>
</tr>
<tr>
<td></td>
<td>Andrew Medd</td>
</tr>
<tr>
<td></td>
<td>Thurai Rahulan</td>
</tr>
<tr>
<td></td>
<td>Joseph Soltan</td>
</tr>
<tr>
<td></td>
<td>Clive Winby</td>
</tr>
</tbody>
</table>

1 **Attendees**

Rebecca Donald-Lopez (RDL) BAE SYSTEMS / Hon Secretary IMechE ANW
David Entwistle (DE) BAE SYSTEMS / Vice Chairman IMechE ANW
Paul Gardner (PG) Safran Nacelles / Chairman IMechE ANW
Thurai Rahulan (TR) University of Salford / Royal Aeronautical Society
Clive Winby (CW) SILCOMS Ltd.

2 **APOLOGIES WERE RECEIVED FROM**

Martin Baxter (MB) BAE SYSTEMS
Billy Beggs (BB) UCLA
Ivan Dean (ID) Past Chairman IMechE ANW
Manuel Donald-Lopez (MDL) BAE SYSTEMS / Hon Treasurer IMechE ANW
Martin Hyman (MH) Business Consultant
Andrew Medd (AM) IMechE Education Advisory Group
Joseph Soltan (JS) Solvay
Fiona Taylor (FT) RAF
3 ELECTION OF NEW CHAIRMAN

Rebecca Donald-Lopez reported that she had not received any emails from anyone else interested in the position. Therefore David Entwistle was proposed, seconded and agreed as the new Chairman of IMechE Aerospace North West.

There is now a need to fill the Vice Chair position.

**Action:** Rebecca Donald-Lopez took an action to initially send an email to the committee to gauge interest.

4 MINUTES FROM THE LAST MEETING

The minutes from the last meeting held on 8th April were agreed as a true and accurate record.

5 REVIEW OF ACTIONS FROM LAST MEETING

5.1 Rebecca Donald-Lopez to assess Blackpool Spitfire simulator.

Rebecca reported that the first open day clashed with their holiday, and they would attend the next open day when they are available.

**Action Carried.**

5.2 David Entwistle took an action to draft an email to send to the region asking for new committee members.

David Entwistle reported that this is still to be completed. David also took an action to prepare a paragraph to put on the home page of the ANW website.

**Action Carried.**

5.3 Martin Baxter took an action to confirm May date for on Solar Hale lecture. Venue decided as Salford Uni.

No news. Rebecca took an action to contact Martin for an update.

**Action carried.**

5.4 David Entwistle stated that he would attend a regional meeting to see if links can be made with Region.

David Entwistle reported that he attended the last regional meeting on 9th April, held in Penrith.

Paul Gardner gave the committee a brief explanation of the IMechE structure, with regard to Regions & Areas and Divisions & Groups, pointing out that our budget comes straight from the Aerospace Division and not Region, therefore giving us more autonomy. However this should not preclude us from strengthening links with Regions & Areas, therefore David will continue to attend the regional meetings, representing Aerospace North West.

**Action completed.**
5.5 Billy Beggs took an action to make further enquiries regarding a talk/visit on Wind Turbines at Siemens in Brough.
   No news. David Entwistle took an action to contact Billy for an update.
   **Action carried.**

5.6 Billy Beggs had a few ideas for items to be displayed at Lancashire Science Festival at UCLAN on Thursday, Friday & Saturday 27th to 29th June 2019. Billy Beggs to investigate and discuss further with David Entwistle.
   David Entwistle reported that Billy Beggs has agreed to display a drone at the science festival.
   **Action completed.**

5.7 Clive Winby took an action to ask his contact at Rolls Royce for any Aerospace STEM kits we could use at the Science Festival at UCLAN on Thursday, Friday & Saturday 27th to 29th June 2019.
   Clive Winby reported that he has arranged to borrow a 3D printed jet engine model and a turbine blade, to display at the Science Festival. He reported that he will arrange to pick up the model, but it may need posting back at our expense. Clive Winby took an action to arrange collecting and sending back the model and turbine blade then invoice ANW if required.
   **New Action.**

5.8 Billy Beggs to Confirm with Dr Darren Ansell Date for Demining In Cambodia
   No news. David Entwistle took an action to contact Billy for an update.
   **Action Carried**

5.9 Rebecca Donald-Lopez took an action to produce the advertising material, place on the website and send emails to the region for the Model Aircraft event on 28th of April at 14:00.
   **Action completed.**

5.10 David Entwistle took an action to arrange the transport for the Airbus Broughton Visit.
   David Entwistle reported that he had researched coaches for the event and that there is a significant jump in price when going from a 16 to a 20 seater vehicle. He said the cost of a 16 seater coach was in the region of £350. David proposed reducing attendee numbers to 16 rather than 20. Rebecca reported that she had researched coaches when organising the visit to Farnborough and took an action to see who we used and what the cost was and let David know. **Action: Rebecca Donald-Lopez.**
   Clive raised the question of whether transport was required or not, therefore Rebecca took an action to ask about transportation preference when publicising the event. **Action: Rebecca Donald-Lopez.**
6  **TREASURERS REPORT**

No financial update was presented at the meeting, but last months accounts can be seen attached to these minutes in Appendix 2.

7  **AEROSPACE DIVISION & HQ UPDATES**

No Updates.

8  **EVENTS & ACTIVITIES PROGRAMME - 2019**

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

8.1  **F35 and Queen Elizabeth Carrier Integration Testing – Event Review**

Title: F35 and Queen Elizabeth Carrier Integration Testing  
Date: 17th April 2019  
Venue: Canberra Club, Samlesbury  
Time: 18:00 for 18:30  
Organiser: Manuel Donald-Lopez

This was an extremely popular event. The event was fully booked and over 100 people attended on the day. Manuel reported it as 'an informative popular, well presented event'.

8.2  **Blackburn Model Aircraft Club – Event Review**

Title: Model Aircraft Demo  
Date: 28th April 2019  
Venue: Witton Park, Blackburn  
Time: 14:00  
Organiser: Joseph Soltan

Out of the 20 people that booked, 14 turned up on the day. The event went well, the weather was sunny and dry, which made it an enjoyable day out. The question was raised ‘what would we have done if it had rained?’ It was decided that for future outdoor events to obtain mobile phone numbers in case of cancellation due to bad weather.

8.3  **Airbus Broughton Visit**

Title: Airbus Broughton Visit  
Date: 26th September  
Venue: Airbus, Broughton  
Time: 9:00am  
Organiser: David Entwistle  
See section 5.10.
8.4 **Rolls Royce Visit**

**Title:** Rolls Royce Visit  
**Date:** 30th October 2019  
**Venue:** Rolls Royce Barnoldswick  
**Time:** 18:30  
**Organiser:** Andrew Medd

Andrew Medd has managed to arrange a visit for us. The event is to be joint with Lancashire area. Numbers are limited to 20. Both committees will advertise it and have 10 places each.

8.5 **Future Event Ideas**

**Microlights**  
David Entwistle suggested a visit to ‘MicroLight Aircraft Training’ based in Cockerham Lancaster. David took an action to email them and ask about an event.  
**Action:** David Entwistle

**Human Factors**  
David Entwistle took an action to make enquiries regarding a lecture on Human Factors.  
**Action:** David Entwistle

9 **ANY OTHER BUSINESS**

9.1 **Lancashire Area News Letter**

David Entwistle showed the committee a newsletter that Lancashire area have produced and stated that he would like us to include a page worth of content about ANW. David took an action to contact Murat and ask if we can include a page and ask who the newsletter gets distributed to.  
**Action:** David Entwistle

10 **DATE OF NEXT MEETING**

**NOTE:** The date of the next meeting has changed in order to maximise attendance.

Next meeting: **Monday 15th July 2019** – at David Lloyd Club, Chorley, 18:15.
11 DATE OF PROPOSED IMECHE COMMITTEE MEETINGS 2019

- Monday 15 July 2019
- Monday 2 September 2019
- Monday 14 October 2019
- Monday 2 December 2019

Minutes taken by:
Rebecca Donald-Lopez
Hon Secretary IMechE Aerospace North West
10th June 2019
## Appendix 1

### IMechE ANW 2019 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>Tuesday 26 Feb 2019</td>
<td>18:00 for 18:30</td>
<td>UCLAN</td>
<td>Use of graphene in Aerospace</td>
<td>Billy Beggs</td>
<td>Rebecca Donald-Lopez</td>
</tr>
<tr>
<td>Thursday 14 March 2019</td>
<td>18:30 for 19:00</td>
<td>Hemsley House</td>
<td>Aerodynamics &amp; Commercial Aircraft</td>
<td>Behrooz Barzegar</td>
<td>Thurai Rahulan Joint with RAeS</td>
</tr>
<tr>
<td>Wednesday 17 April 2019</td>
<td>19:00</td>
<td>Canberra Club, Samlesbury</td>
<td>F35 and Queen Elizabeth Carrier Integration Testing</td>
<td>David Atkinson</td>
<td>Manuel Donald-Lopez</td>
</tr>
<tr>
<td>Sunday 28 April 2019</td>
<td>14:00 – 17:00</td>
<td>Witton Park Blackburn</td>
<td>Model Aircraft Event</td>
<td>N/A</td>
<td>Joseph Soltan</td>
</tr>
<tr>
<td>Thursday 26 September 2019</td>
<td></td>
<td>Broughton</td>
<td>Airbus A320 line Visit</td>
<td>N/A</td>
<td>David Entwistle</td>
</tr>
<tr>
<td>Wednesday 30 October 2019</td>
<td>18:00 for 18:30</td>
<td>Rolls Royce Barnoldswick</td>
<td>Rolls Royce Visit</td>
<td>N/A</td>
<td>Andrew Medd/Rebecca Donald-Lopez/Murat Islam</td>
</tr>
<tr>
<td><strong>TBD Oct/Nov 2019</strong></td>
<td>18:00 for 18:30</td>
<td>UCLAN</td>
<td>Demining in Cambodia</td>
<td>Dr. Darren Ansell</td>
<td>Billy Beggs/Rebecca Donald-Lopez</td>
</tr>
</tbody>
</table>

http://nearyou.imeche.org/near-you/UK/North-Western/Aerospace-North-West
## Appendix 2

### Projected Expenditure for period January 2019 to December 2019

<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>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec-18</td>
<td>End Balance from 2016</td>
<td></td>
<td></td>
<td>3477.33</td>
<td>3477.33</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>3366.58</td>
<td>66.50</td>
<td>3410.83</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb-19</td>
<td>Use of Graphene in Aerospace</td>
<td>Catering</td>
<td>250.00</td>
<td>3118.58</td>
<td>297.60</td>
<td>3113.23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>3009.63</td>
<td>134.05</td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>2901.08</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr-19</td>
<td>F35/QEC Trials Lecture</td>
<td>Venue Hire and Catering</td>
<td>200.00</td>
<td>2701.08</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr-19</td>
<td>Blackburn Model Aircraft Club</td>
<td>Out Door Demonstration so no cost</td>
<td>0.00</td>
<td>2701.08</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>May-19</td>
<td>Solar Hale Lecture</td>
<td>Venue Hire and Catering</td>
<td>400.00</td>
<td>2301.08</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>May-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>2192.33</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jul-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>2083.58</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sep-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>1974.83</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sep-19</td>
<td>Airbus Broughton Visit</td>
<td>Transport to event</td>
<td>400.00</td>
<td>1574.83</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oct-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>1466.08</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dec-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>200.00</td>
<td>1266.08</td>
<td></td>
<td>2979.18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Total

- Total Meeting Costs: 961.25
- Total Events Costs: 1250.00
- Total Equipment Costs: 0.00
- Total Expenditure for Year: 2211.25
- Year End Balance: 496.15

---

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

**Improving the world through engineering**
<table>
<thead>
<tr>
<th>Description</th>
<th>Credit</th>
<th>Debit</th>
<th>Running Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Balance</td>
<td>£</td>
<td></td>
<td>£ 3,477.33</td>
</tr>
<tr>
<td>January Committee Meeting</td>
<td>£ 66.50</td>
<td></td>
<td>£ 3,410.83</td>
</tr>
<tr>
<td>March Committee Meeting</td>
<td>£ 79.60</td>
<td></td>
<td>£ 3,331.23</td>
</tr>
<tr>
<td>Use Of Graphene In Aerospace Catering</td>
<td>£ 297.60</td>
<td></td>
<td>£ 3,033.63</td>
</tr>
<tr>
<td>Mileage Claim (J Soltan March Meeting)</td>
<td>£ 54.45</td>
<td></td>
<td>£ 2,979.18</td>
</tr>
</tbody>
</table>

**TOTAL**

<table>
<thead>
<tr>
<th>Credit</th>
<th>Debit</th>
<th>Running Balance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>£ 2,979.18</td>
</tr>
</tbody>
</table>
Appendix 3

Wish List of Future Events

- Microlights
- Human Factors
- Samlesbury ASK Facility Visit
- Uber Vertical Taxi
- Jet Suit – Richard Browning
- Clean Sky 2 - compound helicopter
- Aero Gearbox International
- Wind Turbine Blades - Siemens have recently opened a factory in Hull.
- Manchester Airport Upgrade Plans
- 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
- Model Aircraft
- Maintenance
- Aircraft ducting
- Aircraft de-icing
- Aerodynamics
- Hawk hook on AC carriers
- Hawk systems into a new airframe
- Hot Air Balloon lecture possibly combined with Balloon Festival
- Hand Glider Material
- Woodford Flight Simulator – Oxford Aviation
- Aerial Survey/Google Maps
- New MBDA factory tour
- Space Tourism
- The Crash Detectives (book by Christine Negroni)
- Avionics Lecture