IMECHE Aerospace North West

Meeting Minutes

A meeting of the IMechE Aerospace North West committee was held on Monday 8th April 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>
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<td></td>
<td>Ivan Dean</td>
</tr>
<tr>
<td></td>
<td>Emma-Jane Guy</td>
</tr>
<tr>
<td></td>
<td>Martin Hyman</td>
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<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

David Entwistle (DE) BAE SYSTEMS /Vice Chairman IMechE ANW
Thurai Rahulan (TH) University of Salford / Royal Aeronautical Society
Manuel Donald-Lopez (MDL) BAE SYSTEMS / Hon Treasurer IMechE ANW
Martin Hyman (MH) Business Consultant

2 APOLOGIES WERE RECEIVED FROM

Billy Beggs (BB) UCLAN
Rebecca Donald-Lopez (RDL) BAE SYSTEMS / Hon Secretary IMechE ANW
Paul Gardner (PG) Safran Nacelles / Chairman IMechE ANW
Joseph Soltan (JS) Solvay
Clive Winby (CW) SILCOMS Ltd.
Fiona Taylor (FT) RAF
Andrew Medd (AM) IMechE Education Advisory Group
Ivan Dean (ID) Past Chairman IMechE ANW
Martin Baxter (MB) BAE SYSTEMS

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3 MINUTES FROM THE LAST MEETING
Minutes Were Agreed.

4 REVIEW OF ACTIONS FROM LAST MEETING

4.1 Rebecca Donald-Lopez to assess Blackpool Spitfire simulator.
Rebecca Donald-Lopez reported that her and Manuel plan to attend one of the public open days at the Spitfire Centre Hanger 42, so will ask about the possibility of an event when they are there.

Action Carried

4.2 Paul Gardner took an action to draft an email to send to the region asking for new committee members.
This needs to mention the CPD/Chartership benefits to encourage people to join.
Action Transferred to DE

4.3 Martin Baxter took an action to confirm May date for on Solar Hale lecture. Location to be discussed at next meeting.
Martin reported that he is still awaiting a response to his email.

The location was discussed and it was decided that Salford University would be an appropriate location for this lecture, having had a lot of recent events close to Preston.
Action carried

4.4 David Entwistle stated that he would attend a regional meeting to see if links can be made with Region.
David reported that he is to attend the regional meeting on Tuesday 9th April.
Action ongoing Due to complete tomorrow

4.5 Billy Beggs took an action to make further enquiries regarding a talk/visit on Wind Turbines at Siemens in Brough.
Billy Beggs reported that he had asked and Siemens said they would think about it. Billy to report back if/when he hears anything.
Need to Chase Up
Action Carried

4.6 Committee to let us know if you can source an engine cut away for educational purposes at a reasonable price.
David Entwistle reported that he ideally wanted something in place for the Lancashire Science Festival at UCLAN on Thursday, Friday & Saturday 27th to 29th June 2019.

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Billy Beggs had a few ideas. Billy Beggs to investigate and discuss further with David Entwistle. **Action: Billy Beggs**

Clive Winby took an action to ask his contact at Rolls Royce for any Aerospace STEM kits we could use at the Science Festival. **Action: Clive winby**

4.7 Billy Beggs to Confirm with Dr Darren Ansell Date for Demining In Cambodia

Billy was not present.

**Action Carried**

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5 **TREASURERS REPORT**

MDL reported that since the last meeting the committee has spent £134.05 on the March Committee Meeting and £297.60 on the Use of Graphene in Aerospace Lecture catering leaving a balance of £2979.18 in the account. See Appendix 2 for further information

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6 **AEROSPACE DIVISION & HQ UPDATES**

No Updates

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7 **EVENTS & ACTIVITIES PROGRAMME - 2019**

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

7.2 **Aerodynamic Design of commercial aircraft - Airbus A380 and the future – Event Review**

Title: Aerodynamic Design of commercial aircraft - Airbus A380 and the future  
Date: 14th March 2019  
Venue: Hemsley House, 41-42, Crescent, Salford M5 4WT  
Time: 18:30 for 19:00  
Organiser: Thurai Rahulan

Thurai Reported that the event was well attended with 62 people and the talk was very engaging.
7.3 **F35 and Queen Elizabeth Carrier Integration Testing**

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

Manuel Donald Lopez reported that everything is in place for this event with Venue, Speaker and Catering confirmed.

7.4 **Blackburn Model Aircraft Club**

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

28th of April at 14:00. Advertising needs to be completed.  
**Action** Rebecca Donald-Lopez

7.5 **Airbus Broughton Visit**

Title: Airbus Broughton Visit  
Date: 26th September  
Venue: Airbus, Broughton  
Time: 9:00am  
Organiser: David Entwistle  

Date and time and transport arrangements needs confirmation  
**Action** David Entwistle to arrange transport for visit.

8 **ANY OTHER BUSINESS**

Paul Gardner has expressed a wish to step down as Chairman of the committee. David Entwistle has stated that he is willing to take on the role of Chairman. This will be voted on at the next meeting. If anyone else wishes to stand as Chair then please let Rebecca Donald-Lopez know prior to the meeting.

9 **DATE OF NEXT MEETING**

Next meeting: **Monday 20th May 2019**– at David Lloyd Club, Chorley, 18:15.
10 DATE OF PROPOSED IMECHE COMMITTEE MEETINGS 2019

- Monday 20 May 2019
- Monday 1 July 2019
- Monday 2 September 2019
- Monday 14 October 2019
- Monday 2 December 2019

Minutes taken by:
Manuel Donald-Lopez
Hon Treasurer IMechE Aerospace North West
8th April 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>26th 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>14th 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>Joint with RAeS</td>
</tr>
<tr>
<td>17th 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>28th April 2019</td>
<td>14:00</td>
<td>Witton Park Blackburn</td>
<td>Model Aircraft Event</td>
<td>N/A</td>
<td>Joseph Soltan</td>
</tr>
<tr>
<td>May 2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>26th September 2019</td>
<td></td>
<td>Broughton</td>
<td>Airbus Visit</td>
<td>TBD</td>
<td>David Entwistle</td>
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<tr>
<td>October 2019</td>
<td></td>
<td></td>
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<tr>
<td>November 2019</td>
<td></td>
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## 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>
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<tr>
<td>Dec-18</td>
<td>End Balance from 2016</td>
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<td></td>
<td></td>
<td>3477.33</td>
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<tr>
<td>Jan-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
<td>108.75</td>
<td>3968.58</td>
<td>66.50</td>
<td>3410.83</td>
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<tr>
<td>Feb-19</td>
<td>Use of Graphene in Aerospace</td>
<td>Catering</td>
<td>250.00</td>
<td>3118.56</td>
<td>297.60</td>
<td>3113.23</td>
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<tr>
<td>Mar-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
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<td>3009.63</td>
<td>134.05</td>
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<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>
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<td>2979.18</td>
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<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>
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<tr>
<td>Apr-19</td>
<td>Blackburn Model Aircraft Club</td>
<td>Out Door Demonstration so no cost</td>
<td>0.00</td>
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<td>May-19</td>
<td>Solar Hale Lecture</td>
<td>Venue Hire and Catering</td>
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<td>2301.08</td>
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<td>Venue Hire and Catering and Mileage Claims</td>
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<td>Jul-19</td>
<td>Committee Meeting</td>
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<td>Sep-19</td>
<td>Committee Meeting</td>
<td>Venue Hire and Catering and Mileage Claims</td>
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<tr>
<td>Sep-19</td>
<td>Airbus Broughton Visit</td>
<td>Transport to event</td>
<td>400.00</td>
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<td>Oct-19</td>
<td>Committee Meeting</td>
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<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>
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<td>2979.18</td>
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</table>

- **Total Meeting Costs**: 2211.25
- **Total Events Costs**: 1256.00
- **Total Equipment Costs**: 297.60
- **Total Expenditure for Year**: 2211.25
- **Year End Balance**: 496.15

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<table>
<thead>
<tr>
<th>Account Description</th>
<th>Credit</th>
<th>Debit</th>
<th>Running Balance</th>
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<tbody>
<tr>
<td>Opening Balance</td>
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<td>£ 3,477.33</td>
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<td>January Committee Meeting</td>
<td>£ 66.50</td>
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<td>£ 3,410.83</td>
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<td>March Committee Meeting</td>
<td>£ 79.60</td>
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<td>£ 3,331.23</td>
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<td>Use Of Graphene In Aerospace Catering</td>
<td>£ 297.60</td>
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<td>£ 3,033.68</td>
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<tr>
<td>Mileage Claim (J Soltan March Meeting)</td>
<td>£ 54.45</td>
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<td>£ 2,979.18</td>
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</table>

**TOTAL**                                            |        |        | £ 2,979.18      |
Appendix 3

Wish List of Future Events

- 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 – 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
- 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