

Department of Electrical & Computer Engineering

Airborne Sampling/Sensing of Distal Volcanic Ash

Project Group Meeting #21

Minutes

**Minutes of the weekly meeting 9th September 2016**

**Present:**

Adrian Weller, Ryan Taylor, Jake Campbell, Mike Shanaher, Maan Alkaisi and Jamie Van de Laar and Parth Thakur

**1. Apologies:**

**2. Minutes from last meeting**

* (refer to Minutes, August 26 2016)

**3. Matters arising**

**4. Correspondence**

* All are CC’d in emails

**5. Progress Reports:**

* Mike Shanaher
  + No testing yet but is ready to go when weather clears
  + Electronics ready
* Ryan Taylor
  + Waiting on 3D printing parts should arrive Monday
  + Testing outlet for small particals
* Jake Campbell
  + Using the mini talon is best option
  + Found another group using vertical assent with plane mounted vertically
  + PixHawk should be able to have another assent flight mode
* Parth Thakur
  + Electrostatic testing showing results, not very large. Signal to noise ratio isn’t very good. Needing to isolate noise.
  + Copper needs to not effect telemetry
  + If larger area is needed, a large copper sheet could be attached to the balloon and not the plane.
  + Test with larger surface area in wind tunnel
* Jamie Van de Laar
  + Wind tunnel testing looks good, is able to test ash and no ash. On the second test the concentration was correct.
  + Needing to test different inlet option

6. **Other business:**

**Meeting ACTION LIST**

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| **ACTION** | **ASSIGNED TO** | **DUE DATE** |
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**Next meeting date:**