

Department of Electrical & Computer Engineering

Airborne Sampling/Sensing of Distal Volcanic Ash

Project Group Meeting #11

Minutes

**Minutes of the weekly meeting 10 June 2016**

**Present:**

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

**1. Apologies:**

* NIL

**2. Minutes from last meeting**

* (look at Minutes, June 3 2016)

**3. Matters arising**

* OPC sensors have arrived.

**4. Correspondence**

**5. Progress Reports:**

* Jamie Van de Laar
  + Cheaper sensor is working and takes reading in set amount of 0.3, 0.5, 1.0, 2.5, 5 and 10 micros. It can be compared to the OPC-N2.
  + Testing to happen with real Ash within the next week.
* Jake Campbell
  + Looking into the possibility of using a dead zone on the surface of a plane to sample ash from.
* Mike Shanaher
  + Mission planner is running on Mike’s mac. Testing to happen within the next week. Raspberry pi is put forward as sensor cpu and encoder for data.
* Parth Thakur
  + Circuit is functioning and reads voltage. Reducing the noise is the next issue.
  + Meeting on Monday the 13th with Kelvin about the CAA regulations.
* Ryan Taylor
  + Mini cyclone testing sounds like a good idea, and is a common in the aviation industry. So getting a prototype to 3D print in the next week.
* Adrian
  + Wind tunnel 1.5mx2.5m, ready to ship down and a decision needs to be made in the next week.
  + DTA is in Christchurch on the 28th of June.

6. **Other business:**

* NIL

**Meeting ACTION LIST**

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| **ACTION** | **ASSIGNED TO** | **DUE DATE** |
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**Next meeting date: Friday 17 June, let’s try for a morning meeting?**