

Department of Electrical & Computer Engineering

Airborne Sampling/Sensing of Distal Volcanic Ash

Project Group Meeting #10

Minutes

**Minutes of the weekly meeting 03 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, may 27 2016)

**3. Matters arising**

* OPC sensors have arrived.

**4. Correspondence**

* Info from the CAA
* Order of OPC-N2

**5. Progress Reports:**

* Jamie Van de Laar
  + Contacted the geology department to view the already calibrated ash testing rigs.
  + Determined that the testing rigs would be useful. Might not have to build our own or use DTA’s wind tunnel.
  + Possible sieving of the ash to get the finer ash.
* Jake Campbell
  + Modelling the plane and how to test the plane system in the provided ash testing system.
  + Could use sudo-ash to test the sensors if ash is hard to get.
* Mike Shanaher
  + Set up UAV and arduplane system
* Parth Thakur
  + Talks with the CAA. Identified issues mainly with the 12km height limit.
  + Contacted Kevin Barnsdale about the higher altitude testing.
  + Contacted Mark Housten.
  + NIWA got a maybe when they asked about retrievable radiosondes.
* Ryan Taylor
  + Looking at alternative methods of capturing the ash.
* Adrian
  + Tested the carbon tape at -20C and found they lost most of their adhesive abilities.
  + Possibly contact CAA in near future.

6. **Other business:**

* NIL

**Meeting ACTION LIST**

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| **ACTION** | **ASSIGNED TO** | **DUE DATE** |
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**Next meeting date: Friday 10 June 1500hrs**