

Department of Electrical & Computer Engineering

Airborne Sampling/Sensing of Distal Volcanic Ash

Project Group Meeting #11

Agenda

Date: Friday June 10th 2016

Time: 3pm

Venue: VH 457

Chair: Parth Thakur

Secretary: Ryan Taylor

1. Apologies

2. Minutes

(Attached)

3. Matters arising

* OPC-N2 sensor has arrived

4. Correspondence

All CC’d in all correspondence

5. Progress Reports:

* Ryan – Ash sample capture/small wind tunnel
* Mike
* Jamie – initial sensor testing
* Jake
* Parth

6. Other business:

* Next meeting – 17th June?

Minutes from last meeting below:



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
  1. Contacted the geology department to view the already calibrated ash testing rigs.
  2. Determined that the testing rigs would be useful. Might not have to build our own or use DTA’s wind tunnel.
  3. Possible sieving of the ash to get the finer ash.
* Jake Campbell
  1. Modelling the plane and how to test the plane system in the provided ash testing system.
  2. Could use sudo-ash to test the sensors if ash is hard to get.
* Mike Shanaher
  1. Set up UAV and arduplane system
* Parth Thakur
  1. Talks with the CAA. Identified issues mainly with the 12km height limit.
  2. Contacted Kevin Barnsdale about the higher altitude testing.
  3. Contacted Mark Housten.
  4. NIWA got a maybe when they asked about retrievable radiosondes.
* Ryan Taylor
  1. Looking at alternative methods of capturing the ash.
* Adrian
  1. Tested the carbon tape at -20C and found they lost most of their adhesive abilities.
  2. 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 17 June 1500hrs**