

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
 - a. Contacted the geology department to view the already calibrated ash testing rigs.
 - b. Determined that the testing rigs would be useful. Might not have to build our own or use DTA's wind tunnel.
 - c. Possible sieving of the ash to get the finer ash.
- Jake Campbell
 - a. Modelling the plane and how to test the plane system in the provided ash testing system.
 - b. Could use sudo-ash to test the sensors if ash is hard to get.
- Mike Shanaher

- a. Set up UAV and arduplane system
- Parth Thakur
 - a. Talks with the CAA. Identified issues mainly with the 12km height limit.
 - b. Contacted Kevin Barnsdale about the higher altitude testing.
 - c. Contacted Mark Houston.
 - d. NIWA got a maybe when they asked about retrievable radiosondes.
- Ryan Taylor
 - a. Looking at alternative methods of capturing the ash.
- Adrian
 - a. Tested the carbon tape at -20°C and found they lost most of their adhesive abilities.
 - b. Possibly contact CAA in near future.

6. **Other business:**

- NIL

Meeting ACTION LIST

ACTION	ASSIGNED TO	DUE DATE

Next meeting date: Friday 17 June 1500hrs