

Department of Electrical & Computer Engineering Airborne Sampling/Sensing of Distal Volcanic Ash Project Group Meeting #16

Agenda

Date: Friday July 29th 2016

Time: 10.30am Venue: VH 457

Chair: Jake Campbell Secretary: Ryan Taylor

1. Apologies

No apologies

2. Minutes

(Attached)

3. Matters arising

No matters arising from previous meeting

4. Correspondence

Reply from UC Finance regarding airspeed sensor purchase

- 5. Progress Reports:
 - Ryan Ash sample capture cyclone separator
 - Mike Telemetry
 - Jamie Sensor testing
 - Jake Temperature monitoring and airflow
 - Parth Electrostatic sensor
- 6. Other business:

Minutes from last meeting below:



Department of Electrical & Computer Engineering Airborne Sampling/Sensing of Distal Volcanic Ash Project Group Meeting #15

Minutes

Minutes of the weekly meeting 22 July 2016

Present:

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

1. Apologies:

Ryan Taylor

2. Minutes from last meeting

• (look at Minutes, July 15 2016)

3. Matters arising

- Arrival of telemetry gear
 - o Can begin testing the telemetry and where to place on aircraft
- Size of testable ash
 - The size of ash wanted for testing was decided to be around the 30 micrometre range.
 - Needs to represent distal ash as accurately as possible.
 - Will have to be further sieved down.
- Depending on CAA approval, the UAV might need a parachute for safe descent on system failure.
- Adrian's arrival time at uni set around 9-9:30 am.

4. Correspondence

All are CC'd in emails

5. Progress Reports:

- Jamie Van de Laar
 - a. Got the wind tunnel working
 - b. Can get up to 10 amps before the controller cuts out.
 - c. Decided that 3 minutes at full throttle is enough for testing.

- d. Emailed Patrick about the wind tunnel, should be able to borrow wind speed sensors.
- e. Able to do dry runs of wind tunnel without ash.
- f. Written code for OPC-N2 on RPi.
- Jake Campbell
 - a. Finished the designs for the OPC-N2 sensor, RPi and PIXHAWK housings.
- Mike Shanaher
 - a. Working on code for the autopilot.
 - b. The SD card fixed the problems.
 - c. Up to testing the newly arrived equipment.
- Parth Thakur
 - a. Working on electrostatic sensor.

6. Other business:

Meeting ACTION LIST

ACTION	ASSIGNED TO	DUE DATE
Send copy of circuit to Maan and Adrian	Parth	29-07-16

Next meeting date: Friday 5 August 1030hrs