

Department of Electrical & Computer Engineering

Airborne Sampling/Sensing of Distal Volcanic Ash

Project Group Meeting #17

Minutes

**Minutes of the weekly meeting 12 August 2016**

**Present:**

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

**1. Apologies:**

**-**

**2. Minutes from last meeting**

* (look at Minutes, July 29 2016)

**3. Matters arising**

* Wind tunnel testing by Parth and Ryan:
  + Injected AC test dust through a tube with holes drilled through it.
  + Only tested for a few seconds, got dust deposit on outside of jar.
  + Tested at approx. 8m/s, but should test at 5 m/s
* OPCN2 flow rate/pressure testing by Jamie:
  + Correct way to measure pressure drop shown in email.
  + Can use jars and dust to verify flow rate (OPC flow rate reading seems unreliable).
  + Probably better to do some testing in chamber with housing off.

**4. Correspondence**

* All are CC’d in emails

**5. Progress Reports:**

* Ryan Taylor
  + Talked about personal air samplers (info sent through by Adrian)
  + Too late in project to bother buying one but DTA may buy one in future.
  + Inlet design of sampler is important.
  + Smoothing inner surface of cyclone could be useful – could use acetone?
  + Sampler and sensor cold be in series, although sampler needs air forced through and sensor doesn’t (this is bad).
* Mike Shanaher
  + Can graph ash data in ground station but not in real time.
  + Standard telemetry data can be graphed in real time, working on being able to graph ash data in real time too.
  + If it becomes a problem, may look at using other ground station software.
* Jamie Van de Laar
* Parth Thakur
  + DTA information regarding Parth’s circuit has useful and Parth now has a heading for the next stage
* Ryan Taylor
  + Pheto tube has arrived

6. **Other business:**

**Meeting ACTION LIST**

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| **ACTION** | **ASSIGNED TO** | **DUE DATE** |
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**Next meeting date: Adrian is down from DTA**