

# PROVIDA (PROtection against Volcanic ash Induced Damage in Aeroengines) Project: Meeting of Modelling Sub-Group

Armourers & Brasiers Room, Materials Science Dept.

(<http://www.msm.cam.ac.uk/department/find.php>)

27 Charles Babbage Road, Cambridge CB3 0FS

09.30 for 10.00, Friday 12<sup>th</sup> December 2014

## *Attendees*

Bill Clyne <a href="mailto:twc10@cam.ac.uk">twc10@cam.ac.uk</a>	TWC	Cambridge (MSM)
James Dean <a href="mailto:jd362@cam.ac.uk">jd362@cam.ac.uk</a>	JD	Cambridge (MSM)
Catalina Taltavull <a href="mailto:ct463@cam.ac.uk">ct463@cam.ac.uk</a>	CT	Cambridge (MSM)
Zihang Zu <a href="mailto:z.zhu@cranfield.ac.uk">z.zhu@cranfield.ac.uk</a>	ZZ	Cranfield U.
Rory Clarkson <a href="mailto:Rory.Clarkson@rolls-royce.com">Rory.Clarkson@rolls-royce.com</a>	RC	Rolls Royce
Beth Majewicz <a href="mailto:Beth.Majewicz@rolls-royce.com">Beth.Majewicz@rolls-royce.com</a>	BM	Rolls Royce
Adam Durant <a href="mailto:adam.durant@geo.uio.no">adam.durant@geo.uio.no</a>	AD	U. of Oslo
Andreas Vogel <a href="mailto:avo@nilu.no">avo@nilu.no</a>	AV	Nor. Inst. Air Res.
Mike Reeks <a href="mailto:mike.reeks@newcastle.ac.uk">mike.reeks@newcastle.ac.uk</a>	MR	Newcastle U.
Hamid Falaki* <a href="mailto:hamid.falaki@cde.catapult.org.uk">hamid.falaki@cde.catapult.org.uk</a>	HF	Catapult
Daniel Dearing* <a href="mailto:Daniel.Dearing@cde.catapult.org.uk">Daniel.Dearing@cde.catapult.org.uk</a>	DD	Catapult
Chris Williams <a href="mailto:Chris.Williams@sa.catapult.org.uk">Chris.Williams@sa.catapult.org.uk</a>	CW	Catapult
Eyal Trachtman* <a href="mailto:eyal.trachtman@satavia.com">eyal.trachtman@satavia.com</a>	ET	Satavia

## *Participation via Telelink*

Geoff Jones* <a href="mailto:Geoffrey.Jones@Rolls-Royce.com">Geoffrey.Jones@Rolls-Royce.com</a>	GBJ	Rolls Royce
Ulrich Kueppers <a href="mailto:u.kueppers@lmu.de">u.kueppers@lmu.de</a>	UK	LMU Munich

\* late participation

## *Papers Attached*

- Minutes of project meeting 3 (23<sup>rd</sup> Sept 2014)

## *Provisional Agenda*

1	Welcome and Introductions	TWC
2	Apologies for Absence	TWC
3	Minutes of last PROVIDA meeting (attached)	TWC
4	RR Research Priorities in the area	RC
5	Modelling of Aeroengine Fan-Particle Interactions	AV
6	VA Characterisation Capabilities in LMU Munich (via telelink) see also <a href="http://www.en.mineralogie.geowissenschaften.uni-muenchen.de/facilities/thermal_analysis/index.html">http://www.en.mineralogie.geowissenschaften.uni-muenchen.de/facilities/thermal_analysis/index.html</a>	UK
7	Relevant Turbulence Modelling at Newcastle/IC	MR

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|----|--|--------|
| 8  | Recent Experimental VA Deposition Work at Cambridge                        | CT     |
| 9  | Recent VA Particle Dynamics Modelling at Cranfield                         | ZZ     |
| 10 | VA Sample sharing between PROVIDA and VERTIGO projects                     | TWC/AD |
| 11 | Other Planning, particularly relating to Gas Flow Modelling + VA Particles | all    |

Lunch planned for ~12.30-13.30

Activities after lunch to involve Catapult personnel, and also Geoff Jones (via telelink). Telelink arrangements to be made with CT.