



CEOI CHALLENGE WORKSHOP

FUTURE EO MISSIONS AND INSTRUMENTS

Friday 2nd March 2018

By Telephone Conference

Objectives

The workshop is part of a project on behalf of the UK Space Agency's Earth Observation Advisory Committee (EOAC) to develop a list of UK EO Mission and Instruments Candidates. A major objective is to invite proposals for missions/instruments to be included on this list. These could be UK national missions/instruments, or developed as a bilateral or through ESA (including InCubed) and that are near flight-ready. The output of the workshop will be a short report for UKSA and EOAC.

Agenda

10:00	Introduction and Welcome	Iain Woodhouse (EOAC) tbc
10.10	Scope and Goals	Beth Greenway, UKSA
10.30	Questions	

The following list of presentations will be made available on the CEOI website after the telephone meeting

– Future UK Needs and Gaps	Helen Brindley (NCEO)
Mission and Instrument Candidate Presentations (approx 25 in total)	- Operational - Commercial/Technology - Science

OPERATIONAL MISSIONS

Simon Calcutt	University of Oxford	CIIR development
Kevin Middleton	STFC RAL Space	MISO (Methane Isotopologues by Solar Occultation) (nanosat IOD)
Dr Chandra Amber Taposeea	isardSAT Ltd	PIST (Polar Ice and Snow Topography mission)/Potentially Sentinel-9
Steve Gibson	Lockheed Martin UK Space	Small Debris detection
Ahmed Kiyoshi Sugihara el Maghraby	University of Southampton	Geostationary radiometry mission concept using satellite formation flight, providing global and real-time radiometry measurements.
Janet Charlton	JCR Systems	MWR for ACCRA (Instrument) - Atmospheric Correction for Coastal Radar Altimetry
Daniel Gerber	STFC RAL Space	sub-mm CubeSat projects based on MetOp-SG heritage
Martin Townend	Thales Alenia Space UK Ltd	4d Cloud-Winds from convoys of small satellites
Nigel Fox	National Physical Laboratory	TRUTHS

COMMERCIAL MISSIONS AND INSTRUMENTS

Alberto Garbayo	AVS Added Value Solutions UK Ltd	UVSAT
Markos Trichas	Airbus DS Ltd	OneWeb
Francois-Regis Martin-Lauzer	ARGANS Limited	Hyper-dCrit
Simon Fellowes	University of Surrey	PASSAT
Owen Hawkins	Earth-i	Vivid-i Evolution

COMMERCIAL MISSIONS AND INSTRUMENTS (Continued)

Robin Sampson	Orbital Micro Systems	Miniature microwave radiometer sensor
Steve Greenland	Craft Prospect Ltd	CubeSat for OnBoard Realisation of Autonomy (COBRA)
Michael Loweth	Oxford Space Systems	Deployable antenna capabilities to support a UK EO mission
Emma Jones	Thales Alenia Space UK Ltd	PUCK
Phil Davies	Deimos	Ultra-Low-Cost GNSS Reflectometry

SCIENCE MISSIONS

Andy Vick	STFC RAL Space	Tropical Carbon Mission
Steve Maddox	Teledyne e2v	CASPA (Cold Atom Space Payload)
Jake Gristey	University of Reading	Measuring Earth radiation budget from a constellation of small satellites
Neil Macleod	STFC RAL Space	CAIROS (Constellation of Atmospheric high Resolution Occultation Spectrometers) – EE10 idea
Peter Huggard	STFC RAL Space	GRaCE: a G-band Radar for Cloud Evaluation
Dr Alessandro Battaglia	University of Leicester	Wivern
Steve Hobbs	Cranfield University	G-CLASS
Daniel Gerber	STFC RAL Space	The EE10 Candidate LOCUS, and the potential ISS receiver TARDIS
Christine Gommenginger or Adrien Martin	National Oceanography Centre	SEASTAR