

Oxford University Space Industry Day – 27th September 2018

12.00	Lunch & Refreshments	Tours of Laboratories & Facilities Space Instrument Test Facility Quantum Technology Laboratory Hypersonic Test Facility Detector and Electronics Characterisation Lab
14.00	Welcome: Prof. Ian Shipsey, Head of Department of Physics, University of Oxford	
14.05	Keynote Talks: Magali Vassiere, Director, ESA - <i>Opportunities and Challenges in Space</i> Graham Turnock, CEO, UKSA - Developments in UK space research and innovation Paul Febvre, CTO, Satellite Applications Catapult - <i>In-orbit demonstration programme</i>	
15.00	Dr Colin Wilson and Dr Simon Jackman: Oxford Research and Innovation for Space	
Session 1: Technologies for Space: 15.10 – 15.40		
Simon Calcutt	Oxford Physics / Atmos. & Planetary	Space test facilities & instrumentation
Doug Liddle	InSpace	Faraday - Low-Cost Commercial In Orbit Demonstration
Dimitra Rigopoulou	Oxford Physics / Astrophysics	sub-mm observing - from Astronomy to Earth Observation
Dave Gooding	SSTL	A novel deployable telescope to facilitate a low-cost <1m GSD video rapid-revisit small satellite constellation
Karen Hampson	Oxford Eng Sci / Optics	Smart Optics for Satellite Applications
Enrique Alabort	OxMet technologies	Lattices for space applications: opportunities and challenges
Daniel Barba Concho	Oxford Materials	Size effects in metal AM: limiting the advantages of light-weight structures
Alberto Garbayo	AVS UK	Electric Propulsion
Luke Doherty	Oxford Eng Sci / Hypersonics	Ascent and Entry Aerothermodynamics in the Oxford High Speed Tunnels
Dani Sors	Open Cosmos	cubesat project with students
Session 2: Space Telecommunications: 15.40 – 16.10		

Dominic O'Brien	Oxford Eng Sci / Communications	Free Space communications
Ekaterina Shamonina	Oxford Eng Sci / Communications	Superdirective metamaterial-inspired antennas (talk by Chris Stevens)
Chris Stevens	Oxford Eng Sci / Communications	Metamaterials for systems integration
Mike Lawton	Oxford Space systems	Deployable structures for space telecoms
Ghassan Yassin	Oxford Physics / Astrophysics	Superconducting Detectors for Millimetre and Sub-Millimetre Astronomy
Angela Taylor	Oxford Physics / Astrophysics	Ultra Low Noise Cryogenic Receivers for Radio Astronomy & Deep Space Communications
Mike Jones	Oxford Physics / Astrophysics	Phased Array Technology for Radio Astronomy & Satellite Communications
Ian Jones	Goonhilly Earth Systems	Exploitation of Radio Astronomy Technology in Industry
Julia Flynn	Oxford Physics / NQIT	National Quantum Information Technology Centre
Session 3: Space Data Challenges: 16.10 – 16.30		
Wes Armour	Oxford E-research Centre	AstroAccelerate - GPU accelerated signal processing for next generation radio telescopes
Simon Atkinson	Roke Manor Research	AI for Space
David Pyle	Oxford Earth Sci	COMET / monitoring volcanoes from space
Elisa Carboni	Oxford Physics / Atmos. & Planetary	Volcanic plume monitoring
Stuart Green	Rezatec	Rezatec's view from space
Don Grainger	Oxford Physics / Atmos. & Planetary	Solar Irradiance monitoring
Simon Proud	Oxford Physics / Atmos. & Planetary	Predicting clear-air turbulence for aviation
16.30	Poster & Demo Exhibition with refreshments	
18.00	Close	
18.00	Dinner – For invited guests only	