



14th Appleton Space Conference Thursday 6th December 2018

08.45 – 09.25 Registration and Refreshments – R22 Lecture Theatre Foyer

Session 1: Chair - Prof Chris Mutlow, Director, STFC RAL Space

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09.30 - 09.40	Welcome Prof Chris Mutlow
09.40 – 10.00	Future Programme and Challenges Dr Graham Turnock, Chief Executive, UK Space Agency
10.00 – 10.20	Exploring the Universe: Synergies in the ESA Science Programme Prof Günther Hasinger, Director of Science, ESA
10.20 – 10.40	Space Applications in the Industrial Strategy Challenge Fund Andy German, Lead Satellite Applications, Innovate UK
10.40 – 11.00	Highlights from the Cassini Spacecraft Mission to Saturn and its Moons Prof Michele Dougherty, FRS, CBE, FRAS, Imperial College London
11.05 – 11.25	Refreshments Break – R22 Lecture Theatre Foyer
11.30 – 11.50	UK Cold Atom Sensors: a Fast Track Demonstrator Andy Vick, Head of Disruptive Technology, STFC RAL Space; Steve Maddox, Systems Engineer, Teledyne e2v
11.50 – 12.10	The Skyrora Launch Programme Richard Osborne, Programme Manager, Skyrora
12.10 – 12.30	A Review of the Recommendations of the COSPAR Roadmap on Small Satellites Dr Alan Title, Senior Fellow, Lockheed Martin
12.30 – 12.50	Sun, Space and Art: Reaching Out to Schools Dr Helen Mason, OBE, University of Cambridge
12.50 – 13.50	Buffet Lunch – R22 Lecture Theatre Foyer
Session 2: Chair – Dr Gillian Wright, Director, STFC UK Astronomy Technology Centre	
13.55 – 14.15	Space Environment and Microgravity Science in the UK Libby Jackson, Human Spaceflight and Microgravity Programme Manager, UK Space Agency
14.15 – 14.35	Sample Return Dr Rain Irshad, Autonomous Systems Group Leader, STFC RAL Space
14.35 – 14.55	Pioneering High-Frequency Commercial Lunar Missions Jamie Denniston, Lead Spacecraft System Engineer, ispace Inc

14.55 – 15.15	Mission to Mercury Prof Emma Bunce, Professor of Planetary Plasma Physics, University of Leicester	
15.20 – 15.40	Refreshments Break – R22 Lecture Theatre Foyer	
Session 3: Chair – Dr Joanna Hart, Harwell Space Cluster Development Manager, STFC		
15.45 – 16.05	Millimetre-Wave Technologies for Future Radio Astronomy Observatories Prof Danielle George, MBE, FIET, Vice Dean of Teaching and Learning, University of Manchester	
16.05 – 16.25	Ocean Colour Contributions to Meeting Sustainable Development Goals	
	Dr Shubba Sathyendranath, Plymouth Marine Laboratory, UK	
16.25 – 16.45	Space Applications of Novel Laser Systems and Quantum Technology Systems	
	Dr Graeme Malcolm OBE, Chief Executive, M Squared Lasers Ltd	
16.45 – 17.05	Astroscale: Developing a Comprehensive Solution for Space Debris Removal Nobu Okada, Founder and CEO, Astroscale	
17.10 – 17.20	Short Break – R22 Lecture Theatre Foyer	
Session 4: 14 th Appleton Keynote Lecture; Chair – Prof Chris Mutlow, Director, STFC RAL Space		
17.25 – 18.15	Plastics in Our Oceans - a Major Environmental Threat or Just an Embarrassment? Dr Simon Boxall, Principal Teaching Fellow within Ocean and Earth Science, National Oceanography Centre, University of Southampton	
18.20 – 18.30	Presentation and Conclusion Prof Chris Mutlow	
18.30 – 19.15	Reception for all participants – R22 Lecture Theatre Foyer	