

16th Appleton Space Conference Thursday 3rd December 2020

09.00 Registrations Session 1: Chair - Prof Chris Mutlow, Director, STFC RAL Space 09.15 - 09.25Welcome **Prof Chris Mutlow** 09.25 - 09.45From Lockdown to Launch - Why the Future is Bright for the UK in Space Dr Graham Turnock, Chief Executive Officer, UK Space Agency 09.45 - 10.05Earth Observation - One of the Fastest Growing Space Domains Josef Aschbacher, Director of Earth Observation Programmes, ESA 10.05 - 10.25AstrobiologyOU: An Introduction Prof Karen Olsson-Francis, Director of AstrobiologyOU, The Open University 10.25 - 10.45ESA's Earth Observation Wind Mission Aeolus; the First Doppler Wind Lidar in Space Dr Anne Grete Straume-Lindner, Aeolus Mission Scientist, ESA 10.45 - 11.10Break - Networking, Virtual Exhibition Session 2: Chair - Dr Joanna Hart, Harwell Space Cluster Development Manager 11.10 - 11.30Once Explorers, Always Explorers Prof Mark McCaughrean, Senior Advisor for Science and Exploration, ESA 11.30 - 11.50Collaboration and Competition: Governing Space in the 2020's Prof Christopher Newman, Northumbria Law School, Northumbria University 11.50 - 12.10**Early Careers and Skills** Dr Sarah Beardsley, Head of Space Engineering Technology, STFC RAL Space Kate Winfield, Environmental Data Scientist, STFC RAL Space Christopher Jenkyn-Watkins, Apprentice, STFC Steven George, Graduate Space Systems Engineer, STFC RAL Space 12.10 - 12.30Equality, Diversity and Inclusion Dr Karen Salt, Deputy Director for Culture and Environment at UKRI



Lunch - Networking, Virtual Exhibition

12.30 - 13.30



Session 3: Chair - Dr Gillian Wright, Director, STFC UK Astronomy Technology Centre	
13.30 – 13.50	FORUM: Understanding How Earth is Losing its Cool Dr Helen Brindley, Space and Atmospheric Physics Group and NCEO, Imperial College London
13.50 – 14.10	JT-Cooler Developments at STFC: 2K-30K Coolers in Support of Space Science Missions Dr Martin Crook, STFC Technology Department
14.10 – 14.30	NASA Heliophysics: What's New Under the Sun Dr Nicola Fox, Director Heliophysics Division, NASA
14.30 – 14.50	Break - Networking, Virtual Exhibition
14.50 – 15.00	Appleton Celebrates – bring your own cake!
Session 4: Chair - Dr Victoria Bennett, Head of the Centre for Environmental Data Analysis, STFC RAL Space	
15.00 – 15.20	Introducing SENSE: The Next Generation of UK Earth Observation Leaders Dr Anna E. Hogg, University Academic Fellow and Co-Director of SENSE, University of Leeds
15.20 – 15.40	Exploration of the Ice Giants Dr Heidi Hammel, Vice President for Science, AURA, Inc.
15.40 – 16.00	Global Air Quality in 2020: Monitoring the Impacts of Wildfires and COVID-19 Dr Mark Parrington, Senior Scientist, Copernicus Atmosphere Monitoring Service, ECMWF
Session 5: Chair - Rob Elliott, Head of Business Development, STFC RAL Space	
16.00 - 17.00	Industry and Innovation Panel Discussion with Question and Answer Session Elodie Viau, Director ESA Telecommunications and Integrated Applications and Head of ECSAT Mark Boggett, CEO, Seraphim Capital Diane Gilpin, Founder and CEO, Smart Green Shipping Alliance Richard Franklin, Managing Director, Airbus Defence and Space (UK) Ltd Nick Shave, Chair, UKspace
17.00 – 17.25	Short Break - Networking, Virtual Exhibition
Session 6: 16th Appleton Keynote Lecture; Chair - Prof Chris Mutlow, Director, STFC RAL Space	
17.25 – 18.15	The Nature of Quantum Reality and Why We Should Care Prof Jim Al-Khalili, Professor of Theoretical Physics and the Public Engagement in Science, University of Surrey
18.15 – 18.25	Conclusion Prof Chris Mutlow
18.25 – 19.00	Closing Networking

