



Science and  
Technology  
Facilities Council

RAL Space

# 17<sup>th</sup> Appleton Space Conference

Thursday 2<sup>nd</sup> December 2021

## 09.00 Registration

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

- 09.15 – 09.25 **Welcome**  
Prof Chris Mutlow
- 09.25 – 09.45 Dr Paul Bate, Chief Executive Officer UK Space Agency
- 09.45 – 10.05 **Space for a safe and green future**  
Elodie Viau, Director of Telecommunications and Integrated Applications,  
Head of ECSAT, European Space Agency
- 10.05 – 10.25 **Implementing the National Space Strategy**  
Rebecca Evernden, Director of Space, Department for Business, Energy and  
Industrial Strategy
- 10.25 – 10.45 **Ready for space: James Webb Space Telescope**  
Prof Gillian Wright, Director STFC UK Astronomy Technology Centre
- 10.45 – 11.10 Break, networking, showcase

### Session 2: Chair - Dr Joanna Hart, Harwell Space Cluster Development Manager

- 11.10 – 11.30 Harriet Brette, Head of Business Analysis, Astroscale Ltd
- 11.30 – 11.50 **Together to the Moon and Mars: missions, analogue campaigns, research and training**  
Prof Bernard Foing, Director ILEWG EuroMoonMars, President Space  
Renaissance International & Chair IAF-ITACCUS
- 11.50 – 12.10 **New technology, new science: observing the Universe from space**  
Prof Catherine Heymans, Astronomer Royal for Scotland; University of  
Edinburgh and Ruhr-Universität Bochum
- 12.10 – 12.30 **Our space our future**  
Shaaron Leverment, Acting CEO, Association for Science Discovery Centres,  
Sophie Bartlett, Cardiff University
- 12.30 – 12.35 RAL Space first Early Careers Conference, feedback and comment  
Kate Winfield, STFC RAL Space
- 12.35 – 13.30 Lunch – Networking, Showcase

**Session 3: Chair – Dr Victoria Bennett, Head of User Services Section, European Centre for Medium-range Weather Forecasts**

- 13.30 – 13.50      **How observing the Earth from space supports our quest to tackle climate change**  
Dr Susanne Mecklenburg, Head of ESA Climate Office, European Space Agency
- 13.50 – 14.10      **The ESA Biomass mission: weighing forests from space**  
Prof Shaun Quegan, Biomass Science Lead, School of Mathematics and Statistics, University of Sheffield
- 14.10 – 14.30      **ForgeStars: How space factories can help fight climate change**  
Andrew Bacon, Co-Founder and Chief Technology Officer, Space Forge Ltd
- 14.30 – 14.50      Break, networking, showcase
- 14.50 – 15.00      Highlight

**Session 4: Chair – Dr Sarah Beardsley, Associate Director, Science and Technology Facilities Council**

- 15.00 – 15.20      **The history and future of the Physikalisch-Meteorologisches Observatorium Davos/World Radiation Center (PMOD/WRC)**  
Prof. Louise Harra, Director of Physical Meteorological Observatory Davos/World Radiation Centre
- 15.20 – 15.40      **CosmoCube: Studies of the dark ages and the cosmic dawn from the far side of Moon's orbit**  
Dr Eloy de Lera Acedo, STFC Ernest Rutherford Fellow, Cavendish Astrophysics Laboratory, University of Cambridge
- 15.40 – 16.00      **The Solar Orbiter mission**  
Dr Andrzej Fludra, Head of Solar Group, TFC RAL Space

**Session 5: Chair - Rob Elliott, Head of Business Development, STFC RAL Space**

- 16.00 - 17.00      **Going Global? Discussion panel on international space collaboration, innovation and trade**  
Carol Sunderland, Innovation Lead, AI and Data Economy, Innovate UK  
Charlie Haire, Lead for Export and Investment, UK Space Agency  
Graham Peters, Chair UKspace  
Joshua Broom, Deputy Head of Space, Department for International Trade
- 17.00 – 17.25      Break – networking, showcase

**Session 6: 17<sup>th</sup> Appleton Keynote Lecture; Chair - Prof Chris Mutlow, Director, STFC RAL Space**

- 17.25 – 18.15      **NASA's exploration of Mars: current findings**  
**Prof James Green, Chief Scientist, NASA Headquarters**
- 18.15 – 18.25      **Conclusion**  
Prof Chris Mutlow
- 18.25 – 19.00      Closing networking