



17th Appleton Space Conference

Thursday 2nd 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

UK space – a vast opportunity

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

Space sustainability – it's time for action

Harriet Brettle, 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

The Ariel mission to study exoplanets

Paul Eccleston, Chief Engineer, STFC RAL Space

12.10 – 12.30

**Interest in space science is not enough! How we shift from 'interest' to
'identity'**

Dr Sophie Bartlett, Cardiff University, Research Lead Our Space Our Future
Shaaron Leverment, Director Explorer Dome, Acting CEO Association for
Science Discovery Centres

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 – 15.00 Break – networking, showcase

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: What happened after the Big Bang?**
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, STFC 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, International Relations Lead, UK Space Agency
Ben Olivier, MD Operations, Arqit
Joshua Broom, Deputy Head of Space, Department for International Trade
- 17.00 – 17.25 Break – networking, showcase

Session 6: 17th Appleton Keynote Lecture; Chair - Prof Chris Mutlow, Director, STFC RAL Space

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