



Science & Technology
Facilities Council



Welcome to the Appleton Space Conference



Dr Chris Mutlow
Director STFC-RAL Space

Lecture Theatre Safety

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KLAXON

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First Aid

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Fire

Dial x 2222 (01235 778888)



Morning Session

08.45—09.25 Registration and Refreshments - R22 Lecture Theatre Foyer

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

09.30—09.40 **Welcome**

Dr Chris Mutlow

09.40—10.00 **UK - the place for Space?**

Ross James, Deputy CEO, UK Space Agency

10.00—10.20 **The Perspective from ESA ECSAT: Achievements, Challenges and Opportunities**

Alan Brunstrom, Liaison Officer, European Space Agency

10.20—10.40 **The Harwell Campus and the Space Cluster**

Dr Tim Bestwick, Director of Business Innovation, STFC

10.45—11.10 Refreshments Break - R22 Lecture Theatre Foyer

11.15—11.35 **Innovate UK - Simplification**

Tim Just, Head of Space, Innovate UK

11.35—11.55 **To 2030 and Beyond: The Challenges and Opportunities**

Stuart Martin, CEO, Satellite Applications Catapult

11.55—12.15 **New Technologies for Future EO Instrumentation**

Prof Mick Johnson, Director, Centre for EO Instrumentation

12.15—12.35 **Copernicus Sentinel-3 Past, Present and Future**

Dr Craig Donlon, Principal Scientist for Ocean and Ice, European Space Agency

12.35—12.55 **8 Minutes: The Dance of Solar Physics**

Alexander Whitley, Alexander Whitley Dance Company

12.55—13.50 Buffet Lunch - Restaurant

Afternoon Session

Session 2: Chair - Dr Gillian Wright, Director, UK Astronomy Technology Centre, STFC

13.55—14.15

Exoplanets and the Search for Extraterrestrial Life

Prof Don Pollacco, University of Warwick

14.15—14.35

EISCAT-3D

Dr Ian McCrea, STFC RAL Space

14.35—14.55

Gravitational Waves: A New Astronomy

Prof Sheila Rowan MBE, University of Glasgow

14.55—15.15

Harnessing Increasing Volumes of Earth Observation Data to Add Value for Science, Business and Society

Dr Samantha Lavender, Pixalytics Ltd; British Association of Remote Sensing Companies

15.20—15.40

Refreshments Break - R22 Lecture Theatre Foyer

Session 3: Chair - Paul Eccleston, Chief Engineer, STFC RAL Space

15.45—16.05

Monitoring our Hazardous Earth from Space

Prof Tim Wright, University of Leeds

16.05—16.25

Quantifying Biomass Burning Emissions to the Atmosphere

Prof Martin Wooster, Kings College London

16.25—16.45

Image Sensors for Space

Paul Jerram, Chief Engineer, e2V

16.45—17.05

SABRE - Hypersonic and Space Access Platforms

Mark Thomas, CEO, Reaction Engines

17.10—17.20

Short Break

Session 4: Keynote Lecture; Chair - Dr Chris Mutlow, Director, STFC RAL Space

17.25—18.15

Principia: A Journey of a Lifetime

European Space Agency Astronaut Tim Peake

18.20—18.30

Presentation and Conclusion

Dr Chris Mutlow

18.30—19.15

Reception for all participants - R22 Lecture Theatre Foyer



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