



Welcomes you to the

12th Appleton Space Conference

on 1st December 2016



Science & Technology
Facilities Council

Conference Programme

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 Space Agency

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

Alan Brunstrom, European Space Agency, European Centre for Space Applications and Telecommunications

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

Tim Bestwick, Director of Business Innovation, STFC

10.45—11.10 Refreshments Break - R22 Lecture Theatre Foyer

11.15—11.35 Tim Just, 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 Earth Observation 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**

Alexander Whitely, Alexander Whitely Dance Company

12.55—13.50 Buffet Lunch - Restaurant

Afternoon Session

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

- 13.15—14.15 **Exoplanets and the Search for Extraterrestrial Life**
Prof Don Pollacco, University of Warwick
- 14.15—14.35 **EISCAT-3D**
Ian McCrea, STFC RAL Space
- 14.35—14.55 **Gravitational Waves: A New Astronomy**
Prof Sheila Rowan, 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

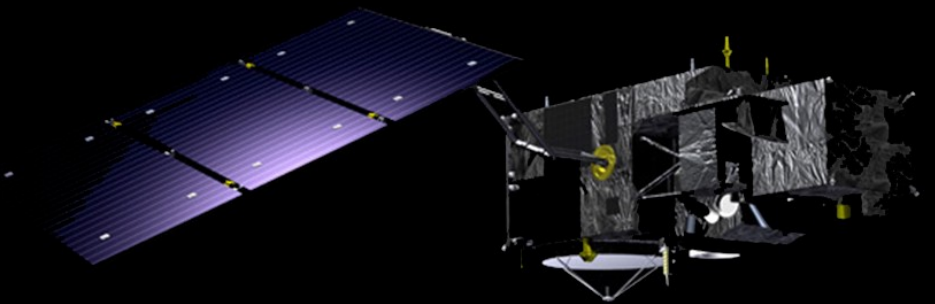
- 17.25—18.15 **Principia: A Journey of a Lifetime**
European Space Agency Astronaut Tim Peake
- 18.20—18.30 **Presentation and Conclusion**
Dr Chris Mutlow
- 18.30—19.15 Reception for all participants - R22 Lecture Theatre Foyer



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