

Satellite Applications

Antenna workshop 2017

Introducing the DISC capabilities



David Bookham

We work with
Innovate UK

CATAPULT

DISC

Disruptive Innovation for Space Centre

Supports the design, manufacture and testing of products for deployment into complex environments.

Located at the Harwell campus



CATAPULT
Satellite Applications

Design, Modelling, Optimisation

2 secure design suites each equipped with HPC workstations

Software includes

- FEKO
- CST
- MATLAB
- ADS
- Solidworks
- Cadence



Test

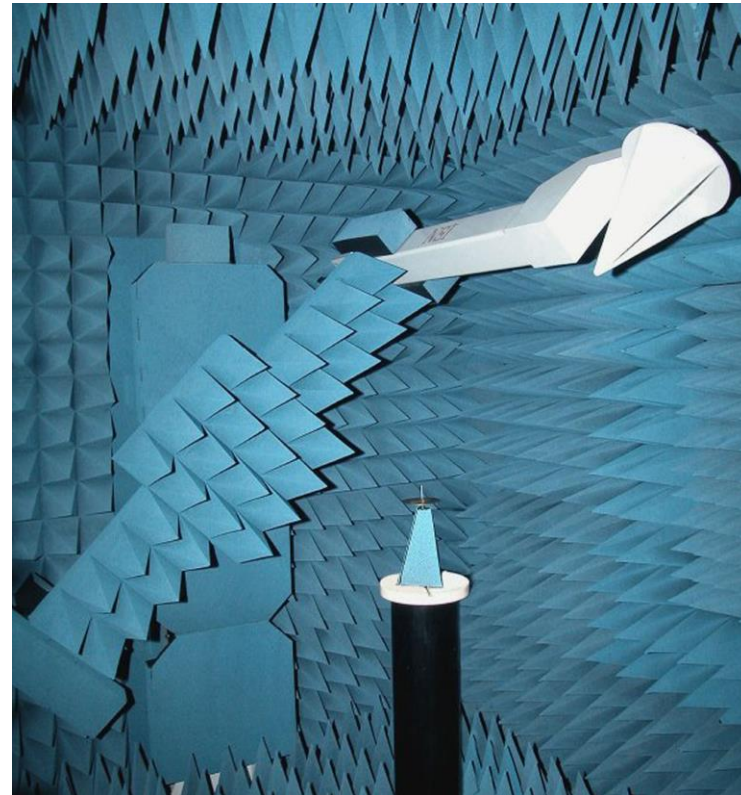
VNA

400m Far field range



Test

Near field spherical range (summer 2017)



Design and test

Reflector antenna

Planar antenna

Phased array antenna

Helix antenna

Cylindrical antenna

etc.

Other capabilities

Satellite orbital planning

- AIG

Satellite link analysis

- STK, SystemVue, Simulink

Satellite modem development

- Matlab, VSG, VSA, High speed Oscilloscope, SDR's

Microwave circuit design

- ADS, CST
- VNA, Spectrum analyser, RF power meter

Other capabilities

FEA (e.g. wind loading)

- Altair Hyperworks, Solidworks

Access to extensive range of STFC capabilities

Next speaker

Thomas Lohrey

Satellite Applications

Have your say on future capabilities

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