



European Association on Antennas and Propagation

Centre for Terrestrial Carbon Dynamics  
University Sheffield  
Hicks Building  
Hounsfield Road  
Sheffield, S3 7RH  
UK



**Web page:**

<http://ctcd.group.shef.ac.uk/ctcd.html>

**Contact:** Prof. Shaun Quegan

**Phone:** +44 114 2223803

**Fax:** +44 (0)114 2223809

**E-Mail:** s.quegan@sheffield.ac.uk

**Research Topics:**

Ionospheric effects on Earth Observation radar (SAR)

BIOMASS satellite (7th ESA Earth Explorer mission)

Space-based SAR radar propagation simulation



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Astronomy and Astrophysics Group,  
University of Glasgow  
Kelvin Building  
SUPA School of Physics and Astronomy  
University of Glasgow  
G12 8QQ  
Scotland



**Web page:**

<http://www.astro.gla.ac.uk/>

**Contact:**

**Phone:** +44 (0)141 330 4152

**Fax:**

**E-Mail:** phas-aa-secretary@glasgow.ac.uk

**Research Topics:**

Radio Astronomy - LOFAR, SKA,  
Radio Astronomy from the Moon  
Solar Radio Astronomy



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Space and Planetary Physics Group  
University of Lancaster

Physics Building  
Lancaster University  
Bailrigg  
Lancaster LA1 4YB  
United Kingdom



**Web page:**

<http://www.physics.lancs.ac.uk/spears/>

**Contact:** Prof. Farideh Honary

**Phone:** +44 1524 510402

**Fax:** +44 1524 844037

**E-Mail:** f.honary@lancaster.ac.uk

**Research Topics:**

Ionospheric and magnetospheric research using EISCAT (European Incoherent Scatter radar) and SuperDARN (the Super Dual Auroral Radar Network)

Ionospheric scintillation at high latitudes

Mapping and imaging cosmic noise absorption using riometers.



UK Meteorological Office

FitzRoy Road  
Exeter  
Devon  
EX1 3PB  
United Kingdom

**Web page:**

<http://www.metoffice.gov.uk/about-us/contact>

**Contact:** Press Office / Dr Jacqueline Sugier (Team Leader, Weather Radar and W

**Phone:** +44 1392 885680 / +44 1392 886121

**Fax:** +44 1392 885681

**E-Mail:** enquiries@metoffice.gov.uk

**Research Topics:**

Radar meteorology

Wind profiling

Radar antennas, system design and hardware testing.

RF design, signal processing, dual polarisation.

Product development (rain rate, classifier, radial wind, VAD, refractivity)



Poynting Institute

poyntinginstitute

Gisbert Kapp Building  
University of Birmingham  
Edgbaston Birmingham  
B15 2TT  
United Kingdom

**Web page:**

<http://www.birmingham.ac.uk/research/activity/poynting/index.aspx>

**Contact:** Prof. Paul S Cannon

**Phone:** +44 (0) 121 414 4323

**Fax:**

**E-Mail:** p.cannon@bham.ac.uk

**Research Topics:**

Ionospheric effects on radar systems

Space-based radar, SAR, (P-band, L-band)

Geolocation

Ionospheric modelling and forecasting

Ionospheric data assimilation



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QinetiQ Ltd

St Andrew's Road  
Malvern  
WR14 3PS  
United Kingdom



**Web page:**

[www.qinetiq.com](http://www.qinetiq.com)

**Contact:**

Matthew Angling  
Anil Shukla  
Barry Tillett  
Richard Finch

**Phone:**

**Fax:**

**E-Mail:** mjangling@qinetiq.com, akshukla@qinetiq.com

**Research Topics:**

Ionospheric radar propagation (Angling)  
Tropospheric radar propagation (Shukla)  
Urban propagation (Tillett)  
Indoor and difficult environments propagation (Finch)



European Association on Antennas and Propagation

University of Durham  
Centre for Communication Systems  
School of Engineering and Computing Sciences  
South Road  
Durham DH 1 3LE



**Web page:**

<http://www.durham.ac.uk/ccs>

**Contact:** Prof. Sana Salous

**Phone:** +44(0)191 334-2532

**Fax:** +44(0)191 334-2408

**E-Mail:** sana.salous@durham.ac.uk

**Research topics:**

UWB propagation for remote sensing for:

1. Through wall imaging
2. Ground penetrating radar