

SHORT COURSE

Modern Antenna Range Measurements

22-24 May 2018 - Edinburgh

This course will provide an introduction to all aspects of modern antenna range measurements including an introduction to antennas, far-field antenna measurements, compact ranges, RCS, planar, cylindrical and spherical near-field testing.

The speakers are Prof. Clive Parini, Prof. Stuart Gregson and Dr John McCormick who are co-authors of the research texts: *Theory and Practice of Modern Antenna Range Measurements*, and *Principles of Planar Near-Field Antenna Measurements*.

The course will be held at Leonardo in Edinburgh.

Course Feedback

The course first ran in 2015 at Queen Mary University of London. Some comments from previous delegates included:

- "I really enjoyed the course and can use a lot of the presented things in our work"
- "I enjoyed the training and it provoked many thoughts about our current measurement techniques. In fact, I have started to look at what we are doing now and develop our testing further"
- "Thank you for hosting this event which to me was priceless!"

Course Outline

DAY 1 Tuesday

09:00 Introduction & Coffee
09:15 Antenna Fundamentals
10:15 Intro to Antenna Measurements & Far-Field
11:15 Break
11:30 Compact Antenna Test Ranges
13:00 Lunch
14:00 Array Antennas
15:15 Break
15:30 Planar Near-Field Theory
17:00 Close

DAY 2 Wednesday

09:00 Cylindrical Near-Field Theory
10:45 Break
11:00 Coordinate Systems & Polarization Bases
12:00 Lunch

DAY 2 Wednesday Cont.

13:00 Spherical Near-Field Theory
14:30 Break
14:45 Gain and Efficiency Measurement
15:45 Tour of Antenna Lab
17:00 Close

DAY 3 Thursday

09:00 Probes & Feeds for Antenna Measurements
10:15 Break
10:30 Advanced Antenna Measurement Topics
12:00 Lunch
13:00 Range Assessments & Error Budgets
14:30 Break
14:45 RF Subsystems & Instrumentation
15:45 RCS
17:00 Close

Course Information

WEBSITE

www.frequensys.co.uk/data/AMCFlyer2018.pdf

REGISTRATION DEADLINE

22 April 2018

FEE

£1900 (excluding VAT) per person.

LOCATION

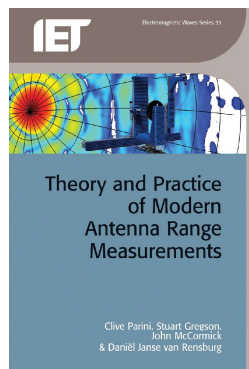
Leonardo MW Crewe Toll, Edinburgh

FURTHER INFORMATION

Prof. Stuart Gregson

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Printed copy of course notes and textbook provided upon completion of the course.

Course sponsors:



This course is intended for researchers, practicing engineers and technicians who want to obtain a better understanding of antenna measurement concepts, theory, practice and techniques.

Fee: £1900

(excluding VAT) per person.

This course will be held at

Leonardo MW

Crewe Toll

2 Crewe Road North

Edinburgh,

Scotland

Edinburgh is served by many major and by low cost airlines, and has good train and road connections to the rest of the UK.



Presenter Biographies

Prof. Clive Parini is Professor of Antenna Engineering at Queen Mary University of London. He has published over 400 papers on research topics including array mutual coupling, array beam forming, antenna metrology, antennas for mobile and on-body communications, millimetrewave compact antennas test ranges, millimetrewave integrated antennas, quasi-optical systems and antenna applications for metamaterials. He is a Fellow of the Royal Academy of Engineering and has published two texts on antenna measurements.

Prof. Stuart Gregson is FIET, FlInstP, CEng, CPhys, has BSc and MSc degrees in physics from the University of Portsmouth, and a PhD from Queen Mary University of London. He has been working in the field of antenna design and antenna measurement for the space and aerospace industries for over 20 years. He has special experience with near-field antenna measurement, electromagnetic scattering, computational electromagnetics and installed antenna performance prediction. He is a Fellow of the Antenna Measurement Techniques Association.

Dr John McCormick is FIET, FlInstP, FIScT, CPhys, CEng, holds HNC in instrumentation systems, a BA in natural science/physics, MSc in solid state physics and PhD degrees from South Bank, Portsmouth and Open Universities respectively. He is lead Radar Systems Engineer, has extensive experience in antenna, RCS and EW research and development.

Joining Instructions

For more information on joining please email Simon Young:

info@frequensys.co.uk