

SHORT COURSE

Modern Antenna Range Measurements

4-6 November 2015 London,

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, planar, cylindrical and spherical near-field testing.

The speakers are Professor Clive Parini, Dr Daniël Janse van Rensburg and Dr Stuart Gregson who are co-authors of the research text *Theory and Practice of Modern Antenna Range Measurements*.

Course outline

DAY 1 WEDNESDAY 4 NOVEMBER 2015

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	Coordinate Systems & Polarization Bases
15:00	Break
15:30	Planar Near-Field Theory
17:00	Close

DAY 2 THURSDAY 5 NOVEMBER 2015

09:00	Cylindrical Near-Field Theory
10:30	Break
10:45	Low Gain and Body-centric Measurements
11:45	Lunch
12:45	Spherical Near-Field Theory
14:15	Break
14:30	Gain and Efficiency Measurement
15:30	Tour of Antenna Lab & Hardware Demo
17:00	Close

DAY 3 FRIDAY 6 NOVEMBER 2015

09:00	Range Assessments & Error Budgets
11:00	Break
11:15	RF Subsystems & Instrumentation
12:15	Lunch
13:15	Advanced Antenna Measurement Topics
15:15	Break
14:30	Probes & Feeds for Antenna Measurements
16:30	Close

Course sponsors:



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

Fee: £1800

(excluding VAT) per person.

Fee includes printed lecture notes, a copy of the book *Theory & Practice of Modern Antenna Range Measurements* & Lunch each day.

This course immediately follows the *Loughborough Antennas and Propagation Conference (LAPC)* <http://www.lapconf.co.uk> allowing attendance of both events.

Location This course will be held at *Queen Mary University of London, Mile End Campus* in the Joseph Priestley Building. The campus is within walking distance of Mile End Underground station giving access to numerous central London restaurants and hotels in the vicinity.

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 antenna 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.

Dr Daniël Janse van Rensburg has been involved in the design and implementation of antenna test systems worldwide for the past 30 years and has published many technical papers on near-field and compact range systems. His particular field of interest is measurement error analysis & modeling. He is a Fellow of AMTA, a Senior Member of the IEEE, and a Licensed Professional Engineer in Ontario. Since 1997 he has worked as Applications Engineering Consultant for Nearfield Systems Inc, Torrance, California, USA. He is also an adjunct professor at the University of Ottawa.

Dr Stuart Gregson is FIET, FInstP, 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 nearly 20 years. He has special experience with near-field antenna measurements, electromagnetic scattering, computational electromagnetics and installed antenna performance prediction.

REGISTRATION FORM

Modern Antenna Range Measurements

4-6 November 2015 London,

Queen Mary University of London, Mile End Campus,
London, UK, E1 4NS, Joseph Priestley Building

Please register:

NAME	
JOB TITLE	
COMPANY/ ORGANISATION	
POSTAL ADDRESS	
TELEPHONE	
FAX	
EMAIL	

Cancellation Policy:

This short course is presented by Antenna Measurement Consultants (AMC) in collaboration with Frequensys Ltd. Cancellations without penalty are allowed until 7 days before commencement of the course. After that date, cancellations will incur a £100 administration charge. AMC/Frequensys reserves the right to cancel the course by 20 October 2015 in the event of insufficient enrolment and in such an event all registrants will be contacted and receive a full registration refund.

Course sponsors:



Joining instructions

Please scan / complete this registration form and return by email to:

Simon Young (info@frequensys.co.uk).

Alternatively just email your details to the same address. For multiple attendees, please duplicate this form.

Payment

Registrants will receive an invoice. Payment needs to be made in full by 20th October 2015 via cheque or bank transfer.

Cheques should be made payable to **Frequensys Limited** and posted to Unit 51, Harley Road, Sheffield S11 9SE.

Bank transfer: Frequensys Limited
Sort code: 60-02-13
Account number: 62198122
Please reference any payments with registrant surname.

Course information

WEBSITE

www.nearfield.com/events/ShortCourses.aspx

REGISTRATION DEADLINE

20 October 2015.

FEE

£1800 (excluding VAT) per person.

LOCATION

Queen Mary University of London, Mile End Campus, London, UK, E1 4NS, Joseph Priestley Building.

FURTHER INFORMATION

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