



Antenna Measurement Course

Acquire advanced theoretical knowledge and in-depth practical skills

The course is an intensive 5 day study on state-of-the-art near and far-field antenna measurement techniques. It combines theoretical sessions with hands-on exercises. This allows participants to put newly acquired theory to practice and presents insight into all aspects of practical antenna measurements. The course also gives the fundamentals of recognizing and troubleshooting erroneous measurements due to testing variables and possible complications. The course is divided in four main parts covering all aspects of practical antenna measurements:

- 1 Antenna Measurement Theory
- 2 Antenna Measurement Preparation
- 3 Actual Measurement Execution
- 4 Troubleshooting and Interpretation of Measurement Results

Who should attend?

The course is intended for PhD students, engineers, scientists, engineering managers and practicing antenna measurement technicians who need to thoroughly understand and practice the theory and principles of antenna measurement techniques.

Teaching methodology

The intensive course uses a combination of theoretical and hands-on sessions. The theoretical course material will be put to use in several practical measurement exercises using MVG (Satimo) multi-probe measurement systems (SG64, StarLab).

Date and Location

June 16-20, 2014, Paris, FRANCE

Prerequisite

Basic antenna knowledge

Course Coordinators

- Dr. Manuel Sierra Castañer, Universidad Politécnica de Madrid (UPM), m.sierra.castaner@gr.ssr.upm.es
- Lars Jacob Foged, MVG Italy lfoged@satimo.com

Registration Fees*

- Non-profit institutions: 440 €
- For-profit institutions: 880 €
- Registration grants will be offered for up to 3 students from non-profit institutions.

Maximum capacity

- 25 students

Credits

- 2 ECTS credits

REGISTER AT:

<http://www.antennasvce.org/Community/Education/Courses>

Event coordinator: Carmel Petersen
carmel.petersen@microwavevision.com

* Accommodations are NOT included. Recommendations will be provided.

Detailed content

Antenna Measurement Theory

- Introduction to antenna measurement
- Far-field systems and compact ranges
- Spherical and planar near-field systems

Antenna Measurement Preparation

- Alignment techniques
- Calibration and golden standards
- Measurement uncertainty

Actual Measurement Execution

- Antenna measurement

Troubleshooting and Interpretation of Measurement Results

- Antenna diagnostics
- Echo reduction techniques
- Practical diagnostics of disruptive technical elements
- Measurement results
- Antenna measurement diagnostics

Schedule

- 20 hours for theoretical lessons
- 10 hours for practical exercises
- Technical tour, social tour and final exam

Teachers

- Manuel Sierra Castañer, Dr., Assoc.Prof, UPM, Universidad Politécnica de Madrid
- Sergey Pivnenko, Dr., Assoc.Prof, DTU, Technical University of Denmark
- Philippe Garreau, Dr., Microwave Vision
- Lars Jacob Foged, Microwave Vision Italy
- Sara Burgos, Dr., Microwave Vision Germany
- Francesco Saccardi, Microwave Vision Italy

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