



# FP6-IST Network of Excellence



Information Society  
Technologies

## ACE - Antenna Centre of Excellence

### Activity 3.1: Training and Education

## Objectives

Act. 3.1 Training and Education is divided into 3 WPs, related to an envisioned joint European School of Antennas (EuSA):

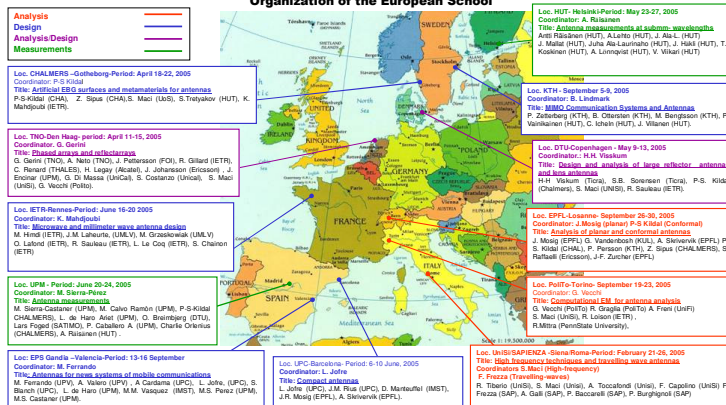
- **WP3.1-1 Short-course structure of the EuSA (Stefano Maci, UNISI)** where an inventory and structuring of short courses available in ACE is followed by pilot short courses during 2005. Travel grants are available to Ph.D. students outside the Contractual partners to allow participation in the courses offered by the school.
- **WP3.1-2 Ph.D. course inventory of the EuSA (Björn Lindmark, KTH)** concerning an inventory of regular Ph.D. courses and a database to be transferred to the Virtual Centre of Excellence. We also aim to increase the use of e-learning in the antenna area and the exchange of student between University and Industry
- **WP3.1-3 Virtual Antenna Laboratory (VALab) (Angelo Freni, UNIFI)** related to the definition of the architecture of a "virtual antenna laboratory" (VALab) to support teaching for young researchers, Ph.D. students and undergraduate and to extend the collective knowledge portfolio.

The common denominator for the work is to integrate educational resources from different partners to improve the overall antenna education in Europe. This is of importance since most research groups are small making it difficult to organize courses and develop material at every location throughout Europe.

## Results




















### Organization of the European School



- In WP 3.1-1, a common 1-week format for short-courses has been agreed upon. A large number of proposals were collected up to September, and the partners then agreed on a set of 12 courses to be held during 2005. The topics, the geographical location, and the partners involved are shown in the figure.
- In WP 3.1-2, a first test inventory of Ph.D. courses has been made within the partners involved in Act. 3.1. 8 partners entered a number of 30 courses. Out of these the majority were general courses on Antennas & Propagation or microwaves. Certain topics, such as GTD/UTD, was not covered at any of these 8 partners indicating a clear potential for collaboration and integration in the European Ph.D. training.
- In WP 3.1-3, a first deliverable on the VALAB features has been completed. A server for VALAB has been set up at UNIFI which has been used for inventory and proposal actions in all three WP's.

## Participants

|   |   |   |  |
|---|---|---|--|
|  | University of Florence, Italy               |  | La Sapienza, Italy                       |
|  | University of Siena, Italy                  |  | IETR, France                             |
|  | KTH, Sweden                                 |  | Ecole Polytechnique Fédérale de Lausanne |
|  | Université de la Marne La Vallée, France    |  | TNO, Netherlands                         |
|  | Universidad Politécnica de Madrid, Spain    |  | Ingegneria dei Sistemi, Italy            |
|  | Universitat Politècnica de Catalunya, Spain |  | DTU, Denmark                             |
|  | Politecnico di Torino, Italy                |  | UPV Universidad Politécnica de Valencia  |
|  | Helsinki University of Technology, Finland  |  | SATIMO, France                           |
|  | Chalmers, Sweden                            |   |  |

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