



The European School of Antennas presents

## "Arrays and Reflect-arrays"

The course will provide a global understanding of the electromagnetic behavior of antenna arrays and reflectarrays, with a special emphasis on wideband arrays, on the effects of mutual coupling and on optimization methods. A software for reflectarray analysis and design will be handed over to the students.

This course is aimed at postgraduate research students and industrial engineers who want to acquire insight into the physical behavior of antenna arrays and reflect-arrays, as well as learn methodologies for array optimization

Date	Sept. 29 to Oct. 3d, 2014
Venue	Louvain-La-Neuve, Belgium
Credits earned	2 ECTS credits
Web	www. <b>esoa</b> -web.org/
Contact	christophe.craeye@uclouvain.be
Travel grants	3

Course Contents	Lecturers
<ul> <li>Reflect-arrays</li> <li>Optimization techniques for array synthesis</li> <li>Unconventional array configurations</li> <li>Ultra-wideband arrays</li> <li>Timed arrays</li> <li>Array mutual coupling</li> <li>Numerical methods for arrays</li> <li>SAR processing and interferometry</li> </ul>	Prof. Sean Hum, Canada Prof. Giorgio Franceschetti, Italy Prof. Jose Antonio Encinar, Spain Prof. Andrea Massa, Italy Prof. Giacomo Oliveri, Italy Prof. Raphaël Gillard, France Prof. Andrea Neto, The Netherlands Prof. Christophe Craeye, Belgium



## Schedule:

22 hours of classes
10 hours of practical sessions
1 labs and facilities tour
1 poster session (optional contribution)
The first course starts at 9.00 a.m., Sep. 29, 2014.

**Registration deadline**: August 22, 2014 on http://www.antennasvce.org/Community/Education/Courses Registration includes welcome dinner and social event.

Address: UCL, ICTEAM Institute, Avenue Georges Lemaître, 4, 1348 LLN





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GENERAL INFORMATION

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Prerequisites Availability Registration Fees	<ul> <li>Masters' level course in Electromagnetics deeper background in antennas and microwaves is an advantage</li> <li>Maximum 25 students</li> <li>Non-Profit Institution: € 440</li> </ul>
	Profit Institution: € 880 Cover classes and course material, welcome dinner, social event
Deadline	<b>Registration by Friday August 22, 2014, online at</b> http://www.antennasvce.org/Community/Education
Grants	<ul> <li>Three grants will be offered to students from non-profit organizations. Please send your application by email to :</li> <li>Christophe.craeye@uclouvain.be by June 30 (the email subject must be "ESoA grant"). Should include student's CV, research topic, and confirmation letter from the advisor explaining why a specific funding is requested.</li> <li>The 3 applications receiving most attention will be ranked: the amounts of the grants will be 440 €, 380 €, 320, respectively. Answers will be provided by July 30.</li> </ul>
Lodging	10 rooms have been reserved at 30 €/night at Hotel Relais, they will be made available to the first 10 registrants. Please send email to <u>christophe.craeye@uclouvain.be</u> , with "ESoa lodging" as a subject.
Phone number	+32 10 472300 (in case of emergency only)