



The European School of Antennas presents

## "Arrays and Reflectarrays"

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, on optimization methods and on applications. A software for reflectarray analysis and design will be handed over to the students; many industrial examples will be provided.

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

Date	September 5-9, 2016
Venue	Louvain-La-Neuve, Belgium
Credits earned	2 ECTS credits (3 with passed exam)
Web	www. <b>esoa</b> -web.org/
Contact	christophe.craeye@uclouvain.be
Travel grants	3

Course Contents	Lecturers
<ul> <li>Reflectarrays</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> </ul>	Prof. Sean Hum, Canada Prof. Jose Antonio Encinar, Spain Prof. Andrea Massa, Italy Prof. Paolo Rocca, Italy Dr. Hervé Legay, Thales, France Prof. Raphaël Gillard, France Prof. Andrea Neto, The Netherlands Prof. Christophe Craeye, Belgium



## Schedule:

22 hours of classes10 hours of practical sessions1 labs and facilities tour1 poster session (optional contribution)The first course starts at 9.00 a.m., Sep. 5, 2016.

**Registration deadline**: July 29, 2016 on by email (see below) Registration includes welcome dinner and social event.

Address: UCL, ICTEAM Institute, Maxwell building, Shannon room, Place du Levant, 3, 1348 LLN





## ESoA School on Arrays and Reflectarrays

## **GENERAL INFORMATION**



Prerequisites	Masters' level course in Electromagnetics deeper background in antennas and microwaves is an advantage
Availability	Maximum 25 students
Registration Fees	Non-Profit Institution: € 440 Profit Institution: € 880 Cover classes and course material, welcome dinner, social event
Deadline	<b>Registration by Friday July 29, 2016, online at</b> by email to <u>Christophe.craeye@uclouvain.be</u> with "ESoA grant" as subject.
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 July 29 (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.</li> <li>Still 1 grant available.</li> </ul>
Lodging	20 rooms have been reserved at 35 €/night at Hotel Relais. To book, please send email to <u>christophe.craeye@uclouvain.be</u> , with "ESoA lodging" as a subject.
Phone number	+32 10 472300 (urgent matters)