

EUPROMETA – 24th Doctoral School on Metamaterials

Metamaterials for microwave components and systems

Metamaterials represent a key enabling technology to implement the next generation of antenna and microwave components and systems. The anomalous interaction between the electromagnetic field and metamaterials allows obtaining unique properties that can be successfully used to dramatically improve the performance of existing antenna and microwave components and design conceptually new and unprecedented components. The course will introduce the current state-of-the-art of metamaterial inspired components for antenna and microwave technology, giving particular emphasis to the challenges to take and the limitations to consider when moving towards industrial applications.

This course is aimed at post-graduate research students and industrial engineers who are interested in metamaterials as a new enabling technology for industrial applications.

Date	24-27 March 2014
Venue	“Roma Tre” University, Rome, Italy
Credits earned	1.5 ECTS credits
Web	http://school.metamorphose-vi.org
Contact	filiberto.bilotti@uniroma3.it
Poster presentation	Yes
Travel grants	3

<p style="text-align: center;">Course content</p> <ul style="list-style-type: none"> • Introduction to metamaterials (MTMs) • Transmission line MTMs and applications • Transformation EM and applications • MTM absorbers • Cloaking devices based on MTM technology • Metasurfaces and their applications • EBG materials and applications 	<p style="text-align: center;">Lecturers</p> <p>Prof. Filiberto Bilotti, Italy Prof. Yang Hao, UK Prof. Stefano Maci, Italy Prof. Ferran Martin, Spain Prof. Alessandro Toscano, Italy Prof. Giuseppe Schettini, Italy Prof. Sergei Tretyakov, Finland</p>
	<p>Schedule: 12 hours of teaching 12 hours of guided study and exercises</p> <p>Registration: Deadline 3 March 2014</p> <p>Address: “Roma Tre” University – Department of Engineering – Via Vito Volterra 62 – 00144 Rome - Italy</p>

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