



National Centre for Scientific Research  
"Demokritos"



## European School of Antennas 2016

**"ADVANCED MATERIALS FOR ANTENNAS"**  
(LBORO-NCSR) ATHENS, June 20-24 2016

### Class Scheduling

#### Monday, 20 June 2016

Time	Lecturer	Activity
10:00 - 11:30		Registration and Welcome
11:30 - 13:00	J. Vardaxoglou	Introduction & Overview of the School
13:00 - 14:00		<i>Lunch</i>
14:00 - 15:30	J. Vardaxoglou	Pocket guide: Antenna basics
15:30 - 16:00		<i>Coffee Break</i>
16:00 - 17:30	J. Vardaxoglou	Material, metamaterial and 3D printable structures

#### Tuesday, 21 June 2016

Time	Lecturer	Activity
09:30 - 11:00	S. Tretyakov	Antenna miniaturization by material loading and using artificial magnetics
11:00 - 11:30		<i>Coffee Break</i>
11:30 - 13:00	S. Tretyakov	Material parameter extraction from resonator and S-parameter measurements
13:00 - 14:00		<i>Lunch</i>
14:00 - 15:30	S. Tretyakov	Recent topics in metasurface antennas (metamirrors and single-layer transmittarrays)
15:30 - 16:00		<i>Coffee Break</i>
16:00 - 17:30	G. Eleftheriades	Huygens' metasurfaces for antenna applications
18:30		<i>Social Event</i>



National Centre for Scientific Research  
"Demokritos"



## European School of Antennas 2016

**"ADVANCED MATERIALS FOR ANTENNAS"**  
(LBORO-NCSRD) ATHENS, June 20-24 2016

### Wednesday, 22 June 2016

Time	Lecturer	Activity
09:30 - 11:00	G. Eleftheriades	Transmission-line metamaterials I
11:00 - 11:30		<i>Coffee Break</i>
11:30 - 13:00	G. Eleftheriades	Transmission-line metamaterials II
13:00 - 14:00		<i>Lunch</i>
14:00 - 15:30	M. Pissas	Magnetic and Superconducting materials: Theory and Applications
15:30 - 16:00		<i>Coffee Break</i>
16:00 – 17:30	M. Pissas	Magneto-dielectric materials for microwave applications

### Thursday, 23 June 2016

Time	Lecturer	Activity
09:30 - 11:00	A. Alexandridis	Antenna reconfigurability using magnetoelectric materials: antenna design and simulations
11:00 - 11:30		<i>Coffee Break</i>
11:30 - 13:00	W. Whittow	Material measurements: An overview using theory and simulations
13:00 - 14:00		<i>Lunch</i>
14:00 - 15:30	W. Whittow	Measurements of dielectric properties of materials : Cavity method (laboratory demonstration)
15:30 - 16:00		<i>Coffee Break</i>
16:00 – 17:30	W. Whittow A. Alexandridis	Measurements of dielectric properties of materials : Waveguide method (laboratory demonstration)



National Centre for Scientific Research  
"Demokritos"



## European School of Antennas 2016

**"ADVANCED MATERIALS FOR ANTENNAS"**  
(LBORO-NCSR) ATHENS, June 20-24 2016

### Friday, 24 June 2016

Time	Lecturer	Activity
09:30 - 11:00	M. Pissas	Experimental methods for magnetic materials characterization (laboratory demonstration)
11:00 - 12:30	A. Alexandridis T. Zervos	Antenna far field measurements in Anechoic Chamber (laboratory demonstration)
12:30 - 13:30		Final exam
13:30 - 14:30		<i>Lunch</i>
14:30 - 15:30	All	<i>Coffee Break</i>
15:30 - 16:30		Conclusions & Certifications