

EUPROMETA – 33rd Doctoral School on Metamaterials,
3-6 April 2017, University of Bordeaux, France

Metasurfaces School Tentative Program



3 April – Monday

Hour	Topic	Lecturer
09:00 – 10:30	Participant registration - Welcome Coffee	
10:30 – 10:40	Opening and introductory information	
10:40 – 11:30	Basics of metamaterials – Part I - definition of metamaterials. - complex material responses in electromagnetics - anisotropy and bi-isotropy - chirality and magnetoelectric coupling - reciprocity and non-reciprocity - general bianisotropy: principal, skewon, axion parts of medium response	Prof. Ari Sihvola
11:30 – 12:20	Basics of metamaterials – Part II - radial anisotropy: systropic, bulbic, and porcupic metamaterials - basic dispersion models for material response - classical mixing and homogenization principles - electromagnetic boundary conditions from simple to complex - impedance boundaries, PEC, PMC, PEMS, SH, DB, SHDB, and GSHDB conditions	Prof. Ari Sihvola
12:30 – 13:50	Lunch	
14:00 – 14:50	Introduction to Metasurfaces – Part I	Prof. Constantin Simovski
14:50 – 15:40	Introduction to Metasurfaces – Part II	Prof. Constantin Simovski
15:40 – 18:00	Coffee break and poster session	

4 April – Tuesday

Hour	Topic	Lecturer
09:00 – 9:50	Microwave Metasurfaces – Part I	Prof. Constantin Simovski
9:50 – 10:20	Coffee break	
10:20 – 11:10	Microwave Metasurfaces – Part II	Prof. Constantin Simovski
11:10 – 12:00	TeraHertz Metasurfaces – Part I	Prof. Willie Padilla
12:15 – 13:45	Lunch	
13:50 – 14:40	TeraHertz Metasurfaces – Part II	Prof. Willie Padilla
15:00 – 17:30	Social event – “Chateau” visit and wine tasting	
19:30 – 21:30	School dinner in Bordeaux city	

5 April – Wednesday

Hour	Topic	Lecturer
9:00 – 9:50	Nano-optics with Metasurfaces – Part I	Dr Philippe Lalanne
9:50 – 10:20	Coffee break	
10:20 – 11:10	Nano-optics with Metasurfaces – Part II	Dr Philippe Lalanne
11:10 – 12:00	All Dielectric Metasurfaces – Part I	Dr Isabelle Staude
12:15 – 13:45	Lunch	
14:00 – 14:50	All Dielectric Metasurfaces – Part II	Dr Isabelle Staude
14:50 – 15:40	Plasmonic Metasurfaces – Part I	Dr Patrice Genevet

15:40 – 16:00	Coffee Break	
16:00 – 16:50	Plasmonic Metasurfaces – Part II	Dr Patrice Genevet

6 April – Thursday

Hour	Topic	Lecturer
09:00 – 9:50	Free form Metasurfaces	Prof. Martin Wegener
9:50 – 10:20	Coffee break	
10:20 – 11:10	Examples of optical characterization of Metasurfaces	Dr. Alexandre Baron
11:10 – 12:00	Bottom-up fabrication of Metasurfaces	Dr. Virginie Ponsinet
12:00 – 13:30	Lunch and end of School	