

# First Fresnel-Imperial Metamaterials and Plasmonics Workshop

Zoom link: <https://univ-amu-fr.zoom.us/j/96343706623?pwd=Z2dPanBPem5DNklqZGkrdW9GaDJ1UT09>

## Monday September 27th

UK Time      French Time

9:00-9:15      10:00-10:15      Welcome and introduction      Chair S. Brasselet

9:15-9:45      10:15-10:45      **Plenary lecture: Sir John Pendry**      Chair R. Craster

9:45-10:00      10:45-11:00      Coffee break

10:00-11:15      11:00-12:15      **Topic 1 Metamaterials applications**      Chair S. Guenneau

Richard Syms (ICL) Medical imaging aspects of RF metamaterials

Marc Dubois (IF) Metamaterials for MRI imaging

Ory Schnitzer (ICL) Acoustic metamaterials

Richard Craster (ICL) Elastic Metamaterials

Stéphane Brûlé (IF) Seismic metamatériaux

11:15-13:00      12:15-14:00      Lunch break

13:00-14:00      14:00-15:00      **Topic 2 Plasmonics**      Chair R. Sapienza

Fang Xie (ICL) Plasmonic materials for solar energy harvesting and biosensing/bioimaging

Guillaume Baffou (IF) Thermoplasmonics and phase imaging

Stefan Maier (ICL) Plasmonics and metasurfaces

Jérôme Wenger (IF) Optical nanoantennas to enhance fluorescence

14:00-15:00      15:00-16:00      **Topic 3 Nanophotonics**      Chair J. Wenger

Rupert Oulton (ICL) Quantum optics, nanophotonics and metamaterials

Brian Stout (IF) Mie scattering and quantum optics

Riccardo Sapienza (ICL) Time-varying and network metamaterials

Aude Lereu (IF) Resonant dielectric multilayer for enhanced total internal reflection fluorescence imaging

15:00-15:30      16:00-16:30      Coffee break

15:30-16:45      16:30-17:45      **Topic 4 Wave manipulation with metamaterials**      Chair B. Gralak

Sebastien Guenneau (ICL) Cloaking for control of waves and diffusion

Martin McCall (ICL) Space-time cloaking

Gilles Renversez (IF) Nonlinear waves in plasmonic waveguides

Eva-Maria Graefe (ICL) Landau-Zener transitions through exceptional points in the band structure of a PT-symmetric lattice

Maxence Cassier (IF) Analysis of the TE band structure in high contrast honeycomb media

**Tuesday September 28th**

UK Time      French Time

**9:00-9:30      10:00-10:30      Welcome and introduction to Gather Town**

**9:30-10:00      10:30-11:00      Plenary lecture: André Nicolet**                      Chair S. Brasselet

**10:00-10:30      11:00-11:30      Virtual coffee chat on Gather Town**

**10:30-12:00      11:30-13:00      Round table discussion**