

1st Workshop on Photonic Metasurfaces (WPM)

in the frame of ICTON 2025

July 6th–10th, 2025 • Barcelona, Catalunya, Spain

Websites: <https://icton2025.upc.edu/> <https://www.gov.pl/web/instytut-lacznosci/icton-2025>

Overview

We are delighted to announce the 1st Workshop on Photonic Metasurfaces (WPM), held in conjunction with ICTON 2025. Photonic metasurfaces have rapidly gained prominence as versatile platforms for imaging, sensing, optical communications, and quantum photonics. This workshop will bring together leading experts and emerging talents to discuss the latest advancements, foster new collaborations, and address challenges driving the future of metasurface research and applications.

Key Topics

Design & Fabrication: Sub-wavelength patterning, novel materials, device integration

Nonlinear & Tunable Metasurfaces: Active control, frequency conversion, parametric processes

Imaging & Sensing: Metalenses, polarization control, biosensing, environmental monitoring

Optical Communications: Beam steering, multiplexing, silicon photonics integration

Quantum Photonics: Single-photon sources, quantum sensing, nano-optomechanics

Industrial Perspectives: Manufacturing scale-up, commercialization hurdles, cross-disciplinary applications

Workshop Details

Date & Venue: July 6–10, 2025, Barcelona, Catalunya, Spain

Submission Guidelines:

Submit abstracts/papers via the ICTON 2025 website; indicate “WPM” or “photonic metasurfaces workshop” in the subject line. Accepted contributions will be presented orally or as posters.

Contact & Updates:

Visit the official websites for submission details, deadlines, and further information.

Workshop Chair

Prof. Francesco Dell’Olio (Politecnico di Bari, Italy)