

Prof. Susana Marcos

Instituto de Óptica, CSIC, Madrid

Título: **“Optical Technologies to Improve Vision Diagnostics and Correction”**

Día y hora: martes 3 de julio de 10.15 a 11.00h, Sesión inaugural,

Resumen:

The eye is an amazing optical system, yet a deeper understanding of the optical properties of the eye and their impact on vision will be help to see better. Novel optical technologies allow us characterizing retinal image quality, the optical, structural and biomechanical properties of the optical components of the eye (cornea and lens) and the relationship between optics and vision. On the other hand, inspiration on the natural mechanisms in the eye allows the conception and design of new correction strategies for widespread ocular conditions such as presbyopia, myopia or corneal pathology. Many of these diagnostic tools and corrections have already made their way to the clinic.