

***1<sup>st</sup> International School of the  
IEEE Photonics Society – Italy Chapter***

***Photonic Integration: advanced  
materials, new technologies and  
applications***

***Erice, Italy September 25- October 1, 2016***



**ETTORE MAJORANA FOUNDATION AND  
CENTRE FOR SCIENTIFIC CULTURE**

**TO PAY A PERMANENT TRIBUTE TO GALILEO GALILEI, FOUNDER OF MODERN SCIENCE  
AND TO ENRICO FERMI, "THE ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES**



**XXII course of the International School of Liquid Crystals**





### **Main Topics of the lectures are:**

**Fundamentals of Integrated Optics**

**Theory of optical waveguides**

**Active and passive integrated optic devices**

**Inorganic optical materials and technologies: InP, Si, SiGe, GeSn, C-graphene, glasses**

**Advanced organic materials and technologies: polymers, composites, liquid crystals,**

**Foundries for photonics and innovative optical products**

**Actuators, electronic control, detectors and sensors**

**Optical interconnections: from chips to data centers**

**Numerical techniques, device simulations and design techniques**

### **ORGANIZING COMMITTEE**

**A. d'Alessandro (Rome Sapienza Univ.), R. Asquini (Rome Sapienza Univ.),  
P. Pasini (INFN, Bologna), L. Martini (Rome Sapienza Univ.)**

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