

**International School of Liquid Crystals
XXVI course**

**Announcement of the 2nd International School of the
IEEE Photonics Society – Italy Chapter
and the Italian Liquid Crystal Society
Erice, Italy, August 26- 31, 2023**

***Biophotonics at the nanoscale: from
smart nanomaterials to advanced
optical technologies for life,
environmental science and
nanomedicine***

If you are a PhD student earn 5 ECTS credits!

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(Abstract deadline June 15, 2023)

**Interact with speakers in a fascinating
atmosphere !!!**

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A. d'Alessandro, P. Pasini, C. Zannoni
Directors of the course

C. Zannoni
Director of the School



SICL SOCIETÀ ITALIANA CRISTALLI LIQUIDI



Scheduled Topics

Photonic Biosensing Technologies, Liquid Crystal Biosensors, Chip for biomedical application, Photonics in liquid crystals and biosystems, Imaging and spectroscopy, Industrial applications and issues

Preliminary list of lecturers and tentative titles

Francesca Bragheri, CNR - Institute of Photonics and Nanotechnology, Milan, Italy, On-chip integrated advanced 3D fluorescence microscopy

Nunzio Cennamo, University of Campania "Luigi Vanvitelli", Italy, Simple and highly sensitive Bio-Chemical Plastic Optical Fiber Sensors

Gabriella Cincotti, University of Roma TRE, Italy, Super-Resolution Optical Imaging of Bacterial Cells

Vincent Couderc, Université de Limoges, France, Applications of nonlinear optics in multimode fibers for multiphoton imaging and CARS spectroscopy

Antonello Cutolo, "Federico II" University of Naples, Italy, Fiber optic biosensors for Nanomedicine

Antonio d'Alessandro, Sapienza University of Rome, Italy, Photonic devices based on liquid crystals

Luciano De Sio, Sapienza University of Rome, Italy, Nanotechnology for precision medicine using LC and nanoparticles

Massimo De Vittorio, University of Lecce, Italy, Technologies for optogenetics and neurophotonics

Pietro Ferraro, Institute for Applied Sciences and Intelligent Systems (ISASI) – CNR Italy, Liquid biopsy by phase contrast tomography

Lorenzo Pavesi, University of Trento, Italy, Integrated silicon biosensor for aflatoxin detection/
Neuromorphic photonics and the brain

Roberto Pini Institute of Applied Physics (IFAC) – CNR, Italy, Advances in plasmonic nanovectors for tumors theranostics/Early diagnosis of Alzheimer biomarkers by means of SERS nanostructured platforms

Young Min Song, Gwangju Institute of Science and Technology (GIST), South Korea, Functional colorimetric sensing platforms for measuring environmental changes

Giuseppe Strangi, Case Western Reserve University, USA/Unical, Italy, Metamaterial based biochips

Antonello Vannucci, Photonics 42, Italy, Packaging issue of photonic biochips

Claudio Zannoni, University of Bologna, Introduction to Liquid Crystals



Be inspired



Be creative



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