

## Topics

Workshop technical sessions will mainly focus on the following topics:

- **Sensing platform**  
biosensors, optical sensing, fiber sensors, microstructured optical fibers, probe design and interface.
- **Optofluidics**  
waveguide and fiber optofluidics, fluid and dynamics, optical lab-on-a-chip, flow measurements.
- **Materials**  
biomaterials and tissues, bio-composites, bio-compatibility, bio-derived nanostructures.
- **Nano-biophotonics**  
bio-nanotechnology, plasmonics, modeling of nanoscale structures, nanoparticles.
- **Microscopic and spectroscopic techniques**  
advanced optical, fluorescence and Raman-based methods, confocal and multiphoton microscopy, digital holographic imaging, OCT.
- **Emerging techniques**  
novel sensing principles, IR and terahertz sensing, femto- atto- pulse delivery, optical trapping, point-of-care diagnostic and sensing systems.

Only abstracts covering original and not previously published results will be accepted for inclusion in the conference proceedings.

Both oral and poster presentations will be held in the workshop.

Advance program of the conference will be available at

<http://biophotonics.tlc.unipr.it>

## Co-sponsors



## International Workshop

# BIOPHOTONICS 2011

June 8-10, 2011

Santa Elisabetta Congress Center  
University of Parma, Parma, Italy



## Invitation



<http://biophotonics.tlc.unipr.it>

## BioPhotonics 2011

The international workshop BioPhotonics 2011 is an extraordinary chance to link with experts working in many different science fields, which need to be strongly joined together to develop new technological solutions with the aim to provide light-based techniques for medicine, life science, agriculture, environmental science and many other areas of application.

Biology, chemistry, photonics, physics, engineering and many other disciplines are involved, each of them with an essential role.

Being at BioPhotonics 2011 will be a unique opportunity to join a multidisciplinary forum of experts, where researchers and professionals from all over the world exchange their knowledge and experience, as well as their ultimate research developments.

### Workshop Dates

**June 8-10, 2011**

### Early-bird Registration Deadline

**March 18, 2011**

### Venue

#### Santa Elisabetta Congress Center

Viale G. P. Usberti 95, I-43124 Parma, Italy  
+39 0521 905527

**[biophotonics2011@tlc.unipr.it](http://biophotonics2011@tlc.unipr.it)**  
**<http://biophotonics.tlc.unipr.it>**



## Keynote speakers

**Wolfgang Knoll**, *AIT Austrian Institute of Technology GmbH, Austria*

**Tanya Monro**, *The University of Adelaide, Australia*

**Jiří Homola**, *Institute of Photonics and Electronics, Czech Republic*

**Ozzy Mermut**, *INO, Quebec City, Canada*

**Aldo Roda**, *University of Bologna, Italy*

**David D. Sampson**, *University of Western Australia, Australia*

**Antonio Giulietti**, *CNR-INO, Italy*

**Sinead O'Keeffe**, *University of Limerick, Ireland*

**Juergen Popp**, *IPHT, Germany*

**Alberto Diaspro**, *IIT, Italy*

**Anatoly Zayats**, *King's College London, UK*

**Valery Konopsky**, *Institute of Spectroscopy Troitsk, Moscow region, Russia*

**Kishan Dholakia**, *University of St. Andrews, UK*

**Joachim Krenn**, *Institute of Physics - Karl Franzens University, Austria*

**Giannis Zacharakis**, *FORTH-IESL, Greece*

**Erik Reimhult**, *University of Natural Resources and Applied Life Sciences, Austria*

**Vinod Subramaniam**, *University of Twente, The Netherlands*

**Tracy Melvin**, *University of Southampton, UK*

**Paola Taroni**, *Politecnico di Milano, Italy*

**Francesco Saverio Pavone**, *LENS – Florence, Italy*

**Katarina Svamberg**, *Lund University Hospital, Sweden*

**Sune Svamberg**, *Lund University, Sweden*

**Alexander Oraewsky**, *TomoWave Laboratories Inc., USA*

**Sheng-Lung Huang**, *National Taiwan University, Taipei (R.O.C.)*

## Steering Committee

Stefano Selleri (Conference Co-Chair)

Roberto Pini (Conference Co-Chair)

Tiziana Tambosso (IEEE Photonics Society – Italy chapter)

Francesco Vatalaro (IEEE Italy Section)

## Technical Committee

Roberto Corradini (*University of Parma, Italy*)

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Giuseppe Spoto (*University of Catania, Italy*)

Manuel Lopez-Amo Sainz (*Universidad Publica de Navarra, Spain*)

Annamaria Cucinotta (*University of Parma, Italy*)

Ole Bang (*DTU Fotonik, Denmark*)

Pascal Gallant (*INO, Canada*)

Serguei K. Sekatski (*Ecole Polytechnique Federale de Lausanne, Switzerland*)

## Parma

Parma is located in Emilia-Romagna, an Italian region well famous for its food and architecture. The city was founded in 183 BC as a Roman colony, astride what would become the Via Emilia. Witnesses of the historical importance of the city throughout the centuries, many monuments from the 12<sup>th</sup> century, like the Cathedral and the Batipstry, to the 17<sup>th</sup> century, such as the Teatro Farnese, form the jewels of the crown of Parma. The city surroundings are also embellished by many countryside beauties, like Torrechiara castle. Participating at BioPhotonics 2011 will be a wonderful opportunity to visit one of the most beautiful cities in Italy!