



**University of Pavia**

**Ph.D. School of Electrical and Electronics Engineering and Computer Science**

**Ph.D. School in Microelectronics**

**PhD Program in Bioengineering and Bioinformatics**

**SEMINAR**



## **Applications of diverse optical fiber types for biomedical photonics**

***Prof. Gerd Keiser***  
**Boston University**

10/11/2015, h 11:00

Aula Seminari Ex Dipartimento di Elettronica - Floor D  
Dipartimento di Ingegneria Industriale e dell'Informazione

The talk will describe the operational characteristics of conventional and specialty multimode and single-mode solid-core fibers, double-clad fibers, hard-clad silica fibers, conventional hollow-core fibers, photonic crystal fibers, polymer optical fibers, side-emitting and side-firing fibers, middle-infrared fibers, and optical fiber bundles. Included in this discussion are the fiber materials that are appropriate for use at different wavelengths in the spectrum of interest for biophotonics. Finally, applications to biomedical optics will be discussed.

Bio: Gerd Keiser is currently a research professor in the Electrical and Computer Engineering Department at Boston University. Formerly he worked in the telecom industry and founded PhotonicsComm Solutions, a firm specializing in consulting and education for the telecom and biophotonics communities. He has published 91 papers and holds 5 patents. Gerd Keiser is an IEEE Life Fellow, an OSA Fellow, a SPIE Fellow, and the author of five graduate-level books including the widely used text "Optical Fiber Communications" and the forthcoming text "Biophotonics."

### **Organizers**

Prof. Silvano Donati  
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Seminar in English

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