

## Invited Lectures

Written by Administrador

Tuesday, 28 December 2010 08:27 - Last Updated Tuesday, 12 April 2011 07:27

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An ambitious panel of well-known international experts has been prepared to develop the invited lectures-tutorials (7) in topics within significant areas of Photonics. Among those who have already accepted are:

Prof. Philip Russel (University Erlangen-Nuremberg, Alemania)

Prof. Eric Mazur (Harvard University, Boston,USA).

Prof. David Richardson (Optoelectronic Research Centre, Southampton, UK )

Prof. Xingde Li (Johns Hopkins University, USA)

Prof. Xi-Chegn Zhang (Renssealaer Polytechnic Institute, USA)

Prof. Kazuo Hotate (University of Tokyo, Japon)

Prof. Jorge Ojeda-Castañeda (University of Guanajuato, Mexico)

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**Philip Russel**

### **Max-Planck Institute for the Science of Light**

#### **Keeping a tight focus on matter**

Photonic crystal fibre (PCF) allows remarkable control of the propagation of guided light in structures with



**Eric Mazur**

Area Dean of Applied Physics  
Balkanski Professor of Physics  
and Applied Physics

#### **Harvard University**

#### **Nonlinear optics at the nanoscale**

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We explore nonlinear optical phenomena at the nanoscale by launching femtosecond laser pulses into lo



**David J. Richardson**

Optoelectronics Research Centre (ORC)

**University of Southampton**

### **Emerging Fibre Technology for Next Generation Telecommunication Networks**

Driven by the relentless 40% per annum growth rate in internet data, it is already apparent that the next

In this presentation I shall review and discuss some of the potential technological options (most exploitin



**Xingde Li**

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PhD, Department of Biomedical Engineering

## Johns Hopkins University

### Translational Fiber-optic Endomicroscopy Technologies

The past 20 years have witnessed rapid developments of high-resolution optical imaging technologies, s



**Xi-Cheng Zhang**

Director  
Center for THz Research  
School of Science

## Rensselaer Polytechnic Institute, USA

### Terahertz wave air photonics

Since the early 90s, the technology of THz time domain spectroscopy has been largely applied to measu

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We have developed THz radiation-enhanced-emission-of-fluorescence (REEF) and THz-enhanced acou



**Kazuo Hotate**

Department of Electrical Engineering and Information Systems  
Graduate School of Engineering

**The University of Tokyo**

**Distributed Fiber Sensing Technology: Currents and Challenges**

In this talk, distributed fiber sensing technologies are explained, showing principles and applications. Ti



**Jorge Ojeda-Castañeda**

**University of Guanajuato, Mexico**

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### **Phase-Space tools for designing novel imaging devices**

In applied optics, often one is faced with a trade-off between two functions that are a Fourier transform p