



# PHOTONIC AND ELECTROMAGNETIC CRYSTAL STRUCTURES 2010 PECS-IX :: 26-30 SEP. 2010 :: GRANADA (SPAIN)

<http://www.pecs-ix.org>

Photonic and electromagnetic crystals offer unprecedented control on photons and have emerged as an important new class of optical materials. Metamaterials brought about a wealth of new phenomena, including negative refractive index, superlensing, cloaking, etc. and are entering the realm of applications.

Plasmonics has revived a number of topics and smoothly merged with the above mentioned areas and gained momentum.

Materials for fabricating photonic structures comprise many types: organic, metallic, ceramic, magnetic, etc. Combination of desirable properties and phenomena, such as non-linearity and luminescence, from a wide variety of materials promises to bring about new and exciting applications. Order and disorder have raised yet another notch the interest in these kinds of photonic systems where inner structure is essential.

Extension of these concepts to all wavy propagation is giving surprising fruits.

In PECS-IX, we hope to review the significant advances in the field and discuss future directions of photonic crystals and metamaterials research.

#### Chairmen:

Cefe López (CSIC)  
Francisco J García-Vidal (UAM)

#### Local committee:

Luisa Bausá - UAM, Madrid, Spain  
Niek van Hulst - ICFO, Institut de Ciències Fotoniques, Spain  
Javier García de Abajo - CSIC, Madrid, Spain  
José Sánchez-Dehesa -UPV, Valencia, Spain  
Luis Martín Moreno - CSIC, Zaragoza, Spain  
Hernán Míguez - CSIC, Sevilla, Spain  
Lluís Marsal - Universitat Rovira i Virgili, Tarragona, Spain  
Ricardo Marqués- Universidad de Sevilla, Spain  
Juan José Sáenz -UAM, Madrid, Spain  
Javier Aizpurua - CSIC, San Sebastián, Spain

#### Topics:

Photonic Band Gap Materials  
Plasmonics  
Metamaterials  
Disordered, random and quasi photonic crystals  
Fabrication processes and characterizations

#### Invited speakers:

Ady Arie - Univ. Tel-Aviv, Israel  
Andre C. Arsenault - Opalux Incorporated, Canada  
Che Ting Chan - Hong Kong Univ., Hong Kong  
Thomas W. Ebbesen - Univ. Strasbourg, France  
Ben Eggleton - Univ. Sydney, Australia  
Nader Engheta - Univ. Pennsylvania, USA  
Shanhui Fan - Stanford Uni., USA  
Sajeev John - Univ. of Toronto, Toronto, Canada  
Thomas Krauss - Univ. Saint Andrews, Scotland, UK  
Michal Lipson - Cornell Univ., USA  
Susumu Noda - Kyoto Univ., Kyoto, Japan  
Masaya Notomi - NTT Basic Research Lab., Japan  
Ekmel Ozbay - Bilkent Univ., Ankara, Turkey  
Sir John Pendry - Imperial College, London, UK  
Romain Quidant - Institut de Ciències Fotoniques, Spain  
Costas Soukoulis - Iowa State Univ., Iowa, USA  
Diederik Wiersma - LENS, Florence, Italy  
Jelena Vuckovic - Stanford Univ., Stanford, USA  
Martin Wegener - Univ. Karlsruhe, Karlsruhe, Germany  
Eli Yablonovitch - Univ. California, Berkeley, USA  
Xiang Zhang - Univ. California, Berkeley, USA

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#### Important dates:

Abstract submission until May 31, 2010  
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