

# 12<sup>th</sup> International Conference

on



## Education and Training in Optics and Photonics

Porto, Portugal, July 23 to 26, 2013



The 12<sup>th</sup> Education and Training in Optics and Photonics Conference, ETOP'2013 is being jointly organized by Portugal' and Tunisia' Territorial Committees of ICO and will be held at Faculty of Science of the University of Porto in Porto, Portugal on July 23 to 26, 2013.

ETOP' 2013 is collocated and will run in parallel and in an articulated way with RIAO/OPTILAS'2013, the VIII Iberoamerican Optics Meeting and XI Latinamerican Meeting on Optics, Lasers and Applications ([www.riaooptilas2013.org](http://www.riaooptilas2013.org)).

ETOP is a reference biennial conference that brings together the international community of optics and photonics educators, the academia and the industry, from all around the world to share experiences and information about learning and teaching optics and photonics at all levels. The teaching of optics and photonics, critical fields at the core of today's world-wide scientific and technological infrastructure, must continually be upgraded and renewed in order to meet the growing demands of research, science and industry for the sake of the sustainable development of our world and humankind.

It is the goal of this international conference to bring together leading optics and photonics scientists technicians and educators from all levels and orientations to share experiences and knowledge to discuss, demonstrate and learn about new developments and approaches to teaching in these fields. Through presentations, panel discussions, workshops and exhibits, it is the intent of this conference to inform professors, students, teachers and professional trainers on how to promote the learning of optics and photonics for the future.

Contributions in all relevant fields will be accepted: Optics and Photonics Curricula, Advances in Optics and Photonics Teaching and Training, Teaching Optics for Other Disciplines. Inter- and Multidisciplinary Applications, Optics and Photonics Training for the Real World, Academia/Industry Interaction, Education in Optics and Photonics for Industry, Entrepreneurship, Outreach, Critical Issues Facing Optics Education, New Trends and Methods in Optical Education, New Pedagogical Methods, Tools and Models, Computers Software and Multimedia in Optics Education, Optics Education at Different Levels: High School to Postgraduate, Optics in Primary Education, Kinder garden Optics, Informal and Non-formal Education, Laboratories for Optics Education, Optics Education- International Perspectives, Associate and Technician Education in Optics, Teacher Training, Demonstrations in Optics, Science Fairs, Hands-on Activities, Optics for All Ages, Optics and Photonics Skills in the Global Workplace, Optics for Sustainable Development.

English is the official language of the conference.

*Abstract submission until February 25, 2013.*

**[www.optica.pt/etop2013](http://www.optica.pt/etop2013)**

*The ETOP2013 conference will run at the Science Faculty of the University of Porto. The venue is located in a quiet area with several gardens and green areas with remarkable views to the sea, the Douro river and its historical bridges, the world famous Porto wine cellars and the UNESCO World Heritage "Ribeira". The Faculty facilities are excellent and serve, each year, a large number of similar events. Boavista area with its world renowned "Casa da Musica" (The House of Music), shopping centers shops and hotel are a few minutes' walk away. A modern and very efficient public transportation system (metro, bus, electric cars) connects in a few minutes to all major interest points in the city but also to the airport, train stations and well as the several well know beaches and beach cities both north and south of Douro River. Porto' alive cultural and social life is warmly waiting our visitors...*



***we are looking forward to welcome you in Porto!***

**12th International Conference on  
Education & Training in Optics  
and Photonics**

**ETOP'2013**

**July 23 to 26, 2013**

**DFA-FCUP, Porto, Portugal**

**Important Dates:**

*First announcement:*

July 5, 2012

**Abstracts deadline:**

**February 25, 2013**

*Papers accepted:*

March 10, 2013

*Program issued:*

June 29, 2013

**Early registration deadline:**

**March 15, 2013**

*Manuscript due date:*

June 15, 2013

*Proceedings issued:*

July 23, 2013

**Conference Chairs:**

Manuel Filipe P. C. Martins Costa  
(University of Minho, Portugal)

Mourad Zghal  
(University of Carthage, Tunisia)

**Secretariat/contacts:**

[etop2013@optica.pt](mailto:etop2013@optica.pt)

