

3rd International Conference and Exhibition on Lasers, Optics and Photonics

Dates and Venue: September 01-03, 2015, Valencia, Spain

(Theme: Advancing research and Featuring technologies in Lasers, Optics and Photonics)

Summary

Optics is the branch of physics which involves the behaviour and properties of light, including its interactions with matter and the construction of instruments that use or detect it. Optics usually describes the behaviour of visible, ultraviolet, and infrared light. Because light is an electromagnetic wave, other forms of electromagnetic radiation such as X-rays, microwaves, and radio waves exhibit similar properties.

Spain is a place for wide-scope of research in several areas of photonics, including information technologies, nanophotonic devices, optical sensors, ultrafast optics, optoelectronics and biophotonics. There are more than 32 Photonic research institutes and nearly 45 Photonic companies. The Spain photonics industry had been experienced a growth rate of 18 percent with a turnover of €1.4 billion. Currently there are more than 40 cluster members, many of which are heavily involved in research activities. The membership represents 35 percent of the current photonics industry in Spain. Major projects in Spain develop ultrashort, ultraintense laser technology and promote its use and development in fields such as physics, biology, chemistry, medicine and energy. Based on the latest advancements and researches OMICS Group is organizing this international conference in Valencia to share and discuss on the current technologies and arrive with new thoughts for the implementation of current trends in research for better technology.

For more details please visit-http://optics.conferenceseries.com/

Importance & Scope

Optical science is studied in many related disciplines including astronomy, various engineering fields, photography, and medicine (particularly ophthalmology and optometry). Practical applications of optics are found in a variety of technologies and everyday objects, including mirrors, lenses, telescopes, microscopes, lasers, and fiber optics. In the last 30 years lasers have become generally accepted in science and technology, as well as in industry, medicine, and protection of the environment. Optical systems are ubiquitous in modern society, from Medical sciences to space exploration, telecommunications, information processing and innumerous industrial and military applications of all kinds.

Why Valencia?

Valencia is the capital of the autonomous community of Valencia and the third largest city in Spain after Madrid and Barcelona, with around 809,000 inhabitants in the administrative centre. Valencia is also Spain's third largest metropolitan area, with a population ranging from 1.7 to 2.5 million. The city has global city status; the Port of Valencia is the 5th busiest container port in Europe and the largest on the Mediterranean Sea, with a trade volume of 4.21 million.

Valencia was founded as a Roman colony in 138 BC. The city is situated on the banks of the Turia, on the east coast of the Iberian Peninsula, fronting the Gulf of Valencia on the Mediterranean Sea. Its historic centre is one of the largest in Spain, with approximately 169 acres; this heritage of ancient monuments, views and cultural attractions makes Valencia one of the country's most popular tourist destinations filled with vibrant and historical places. In Valencia a wide-scope of research take place in several areas of photonics, including information technologies, nanophotonic devices, optical sensors, ultrafast optics, optoelectronics and biophotonics. Currently there are more than 32 Photonic research institutes and nearly 45 Photonic companies.

Valencia is the centre of international and avant-garde design, and one of the most bustling cities in Europe regarding fairs and conferences. This city is an industrial centre which expanded its cultural and touristic possibilities, and transformed it into a newly vibrant city. Many restored local landmarks including the ancient Towers of the medieval city (Serrano Towers and Quart Towers), the San Miguel de los Reyes monastery holding a conservation library and whole sections of the old city, for example the Carmen Quarter are centre of attraction.

Why to attend???

3rd International Conference and Exhibition on Lasers, Optics & Photonics is an international optics conference encompassing clinical, translational, and fundamental research and its involvement for the development in the field of lasers, optics and Photonics. It provides a premier technical forum for reporting and learning about the latest research and development, along with launching new applications and technologies. Events include hot topics presentations from all over the world and professional networking with industries, leading working groups and panels.

A Unique Opportunity for Advertisers and Sponsors at this International event:

http://optics.conferenceseries.com/sponsors.php

Major Optics Associations in Europe

European Acoustics Association (EAA)

European Biophysical Societies' Association (EBSA)

European Colloid and Interface Society (ECIS)

European Federation of Organizations for Medical Physics (EFOMP)

European Group for Atomic Spectroscopy (EGAS)

European Optical Society (EOS)

Target Audience

Researchers, Engineers, academicians who work with optics and photonics to solve problems in medicine and biomedicine, Astronomy, ophthalmology and optometry, Application and product developers, Design engineers, Nanoscience Engineers, Organic Photonical researchers, Electronic and Optical Engineers and talented student community from leading Universities.

Top Universities in Spain

University of Barcelona

University of La Laguna

Autonomous University of Barcelona

University of Madrid

The University of Cantabria

Top Photonics Companies in Spain

DAS Photonics

Geo Semiconductor Inc

VLC Photonics

Fotonica

Glance at Market of Lasers, Optics & Photonics

Laser applications range from commodity optics for LED lighting and smart phones to exotic and custom optics for microlithography and astronomy, and infrared to ultraviolet applications. Several of the leading photonics companies in the world views on different technologies, and opinions about future challenges and opportunities for manufacturers and integrators of lasers and photonics products.

Market Growth of Lasers, Optics & Photonics

Statistics which shows growth in importance of Lasers, Optics and Photonics



Source: Reference1



Source: Reference 2



Source: Reference 3

References

- 1. http://www.laserfocusworld.com/articles/print/volume-50/issue-01/ features/laser-marketplace-2014-lasers-forge-21st-century innovations.html
- 2. http://www.laserfocusworld.com/articles/print/volume-50/issue-01/ features/laser-marketplace-2014-lasers-forge-21st-centuryinnovations.html
- 3. http://www.marketsandmarkets.com/Market-Reports/laser-technologymarket-795.html