



2nd Global Summit & Expo on

Laser Optics & Photonics

June 14-16, 2018 Rome, Italy

*Exploring Interdisciplinary Science & Technological Shift on Laser, Optics
& Photonics*



Scientific Federation

T: +91-779-979-0001/+91-779-979-0002

Email: contact@scientificfederation.com | Web: <http://scientificfederation.com>

<http://www.scientificfederation.com/optics-2018/index.php>

Welcome Message

Dear All,

Conference welcomes you to **Laser Optics & Photonics** during **June 14-16, 2018** in **Rome, Italy** which includes Keynote presentations, Oral talks, Poster presentations and Exhibitions. Optics & Photonics-2017 will also provide the excellent opportunity to meet experts, exchange information, and strengthen the collaboration among Directors, Researchers, Associate Professors, and Scholars from both academia and industry. The main theme of the conference is *"Exploring Interdisciplinary Science & Technological Shift on Laser, Optics & Photonics"*.

The 2nd Global Summit & Expo on Laser Optics & Photonics is anticipating participants from 40 and more countries across the globe and the three day conference will provoke plenary sessions, Keynote speeches, Poster, and Oral presentations. This program provides three days of robust discussions on recent advancements and new strategies for development of new materials for global requirements.

Conference Objectives:

- To facilitate opportunities for networking, collaboration and exchange of ideas with internationally renowned leaders in Laser Optics & Photonics.
- To identify research and practice-based innovations in optimizing Laser Optics & Photonics.
- To identify opportunities for evidence-based practice in Laser Optics & Photonics.
- To examine strategies for transformational change in Laser Optics & Photonics.

We look forward to seeing you in Rome in June, 2018...!!!

Best Regards

Optics- 2018 Organizing Committee

Conference Highlights

The Scientific Federation brings you an immense opportunity to be a part of scientific acceleration to world class personalities, young scholars, scientific delegates and young scientists to join in this forum to utilize the expertise and novelties that brings a new era for innovations in the fields of Laser Optics & Photonics which brings well versed scrutinizers at one place.

- Lasers
- Optical Engineering
- Optical Physics
- Fiber Optics
- Optical Communications
- Optical Design
- Medical Optics
- Nonlinear Optics
- Optoelectronics
- Quantum Optics
- Metrology Instruments
- Nanoscale Materials and Devices
- Optical Interference Coatings and Color
- Physics and Applications
- Diamond based Photonics
- Biophotonics

For Abstracts Submission: <http://www.scientificfederation.com/optics-2018/abstract-submission.php>

Conference sessions will bring you the latest strategies, research, and best practices to improve outcomes through quality, safety and staffing.

<http://www.scientificfederation.com/optics-2018/index.php>

Keynote Speech on



“Probabilistic design for reliability of aerospace opto-electronics and photonics”

Ephraim Suhir
Portland State University, USA

Plenary Keynote Presentation on



Latest Developments in Photonics from Industry Perspective

Jose Pozo, PhD
Director of Technology and Innovation
EPIC – European Photonics Industry Consortium

Workshop on

Tissue/Cell Optics and Photonics: Laser Medical Technologies



Prof. Valery Tuchin
SPE & OSA Fellow, FIDPro
Head of Chair of Optics and Biophotonics
Saratov National Research State University
Institute of Precision Mechanics and Control of the RAS, Russia

- Laser-tissue interaction
- Femtosecond lasers for biology and medicine
- Laser-poration of cells and tissues for drug delivery
- Laser micro- and nano-surgery
- Optical coherence tomography (OCT)
- Laser digital interferometry and holography
- Laser speckle imaging methods
- Laser photoacoustic imaging and cytometry
- Laser cell and particle trapping
- Multi-photon laser microscopy and imaging techniques
- Raman, SERS, CARS for tissue/cell pathology detection
- Supercontinuum laser systems for medicine
- Photodynamic, photochemical and photothermal laser therapy
- Controlling of tissue optical properties and diagnostic/therapeutic window Valery

Workshop on



High power/energy lasers based on the disk geometry

V.V. Apollonov
Prokhorov General Physics Institute, Russia

Symposium on

Nanoscale Imaging and Sensing for Biomedical Applications

Dror Fixler
Bar Ilan University, Israel



Optics & Photonics-2018



Symposium on **Integrated photonics for sensing**

Sergio Nicoletti
Optical Sensor Devices Group
Optics & Photonics Department, France

Workshop on ➤ **"PHOTONIC TECHNOLOGIES"**

Topics to be Discussed

- Recording and application of the Bragg gratings.
- Laser Separation of the Substance Components.
- Vertical-Cavity Surface-Emitting Lasers (VCSEL), their Technology and Applications.
- Methods for Creation of the Light Sources Synthesizing Necessary Spectral, Polarization, and Coherent Properties of Radiation.
- Integrated Optical Components of Photonics.

Igor K. Meshkovskiy
St. Petersburg National Research University of Information Technologies,
Mechanics & Optics, Russian Federation



Organizing Committee Members



EPHRAIM SUHIR
Portland State University, USA



Jean-Luc Lorge
CNRS Universite Paris-Saclay, France



Dror Fixler
Bar Ilan University, Israel



Victor Apollonov
Prokhorov General Physics Institute, Russia



Ibrahim Abdulhalim
Ben Gurion University, Israel



Victor V Kotlyar
Samara University, Russia

For More Information

<http://scientificfederation.com/optics-2018/organizing-committee.php>

Glimpses of Previous Conferences



<http://www.scientificfederation.com/optics-2018/index.php>

About Rome

Rome is a special comune (named Comune di Roma Capitale) and the capital of Italy. Rome also serves as the capital of the Lazio region. With 2,877,215 residents in 1,285 km² (496.1 sq mi), it is also the country's largest and most populated comune and fourth-most populous city in the European Union by population within city limits. It is the center of the Metropolitan City of Rome, which has a population of 4.3 million residents. The city is located in the central-western portion of the Italian Peninsula, within Lazio (Latium), along the shores of the Tiber. The Vatican City is an independent country geographically located within the city boundaries of Rome, the only existing example of a country within a city: for this reason Rome has been often defined as capital of two states.

Rome's history spans more than 2,500 years. While Roman mythology dates the founding of Rome at around 753 BC, the site has been inhabited for much longer, making it one of the oldest continuously occupied sites in Europe. The city's early population originated from a mix of Latins, Etruscans and Sabines. Eventually, the city successively became the capital of the Roman Kingdom, the Roman Republic and the Roman Empire, and is regarded as one of the birthplaces of Western civilisation and by some as the first ever metropolis. It was first called The Eternal City (Latin: Urbs Aeterna; Italian: La Città Eterna) by the Roman poet Tibullus in the 1st century BC, and the expression was also taken up by Ovid, Virgil, and Livy. Rome is also called the "Caput Mundi" (Capital of the World).

After the fall of the Western Empire, which marked the beginning of the Middle Ages, Rome slowly fell under the political control of the Papacy, which had settled in the city since the 1st century AD, until in the 8th century it became the capital of the Papal States, which lasted until 1870

Important Dates

Abstract submission opens: July 3, 2017

Registration Opens: July 3, 2017

Early Bird registration: September 27, 2017

Standard Registration: February 23, 2018

On spot registration: June 14, 2018

Venue

Rome, Italy



<http://www.scientificfederation.com/optics-2018/index.php>