

The 1st Greek workshop on: PHOTONICS



May 16-17, 2016



National Hellenic Research Foundation (EIE)

Photonics is the science and technology of generating, controlling, and detecting photons, a Key Enabling Technology (KET) according to European accreditations. Photonics underpins technologies of daily life from smartphone screens and airplane safety sensors, to the fast Internet and life-saving medical instruments. It is foreseen that 21st century will depend as much on photonics as the 20th century depended on electronics.

Photonics can be found everywhere; in consumer electronics (barcode scanners, DVD players, remote TV control), telecommunications (internet), health (eye surgery, medical diagnostic instruments), manufacturing industry (laser cutting and machining), safety and security (infrared camera, remote sensing, civilian buildings control), Screens and lighting (flat screen monitors, HUDs, LED bulbs), etc.

<http://www.light2015.org/>

The Greek scientific community, activated either within the country or abroad (diaspora) is highly active and productive in the field of Photonics with a long list of excellent achievements with global impact and reputation. Achievements of Greek Photonic Scientists and Institutions include niche discoveries published in top scientific journals, disrupting patents, innovative products marketed worldwide, and contribution to the Photonic Science and Technology advancement in European level and worldwide.

A body of major significance for the concertation of Photonics in Greece is Photonics^{GR} a national scale Thematic Platform that was founded 7 years ago, according to the example of the European Technology Platform Photonics21. Photonics^{GR} aspires to coordinate the Greek Photonic community along common scientific axes, while enhancing collaboration, intensify dissemination of results and lobbying in international organization, and, simultaneously improve exploitation of human and infrastructure resources.

<http://www.photonics21.org/>

The entry of the Greek Photonic community into the "photon century" happens in a rapidly varying global socio-economic climate and a financially recessional national landscape. However, the above circumstances set a great challenge to our community that of aggressively exploiting the nearly limitless future applications of light and to reap the emerging benefits, that include the advancement of scientific excellence, the creation of new jobs through scientific innovation and the support of innovation actions that emerge from Greek photonic players.

Photonics^{GR} is proud to announce the 1st national workshop on: PHOTONICS IN GREECE with the purpose of highlighting recent advancements and applications of Photonics through **keynote talks by experts, and, peer reviewed contributory poster papers by young researchers** (call for abstracts to be announced shortly). The workshop will also feature events that will bring together Academia-Industry- and Investors for presenting ideas matured for industrial exploitation and potential commercialisation. Finally, special attention will be given and certain actions will be undertaken for establishing the consolidating the activities of Photonics^{GR} with a new election processes and a broadly reviewed plan for immediate implementation.

INDICATIVE TOPICS OF INTEREST

- Biophotonics
- Silicon photonics
- Light localisation
- Optical imaging
- Optical Materials & Technology
- Photonic Integrated Circuits
- Optical Design & Instrumentation
- Nano Photonics
- Quantum Photonics
- Computational Photonics
- Optical Communication & Networks
- Quantum Optics
- Optical Fiber Sensors

PEOPLE AND COMMITTEES

Organizing & Program Committee

1. Κώστας Μπάλας (Πολυτεχνείο Κρήτης)
2. Νίκος Πλέρος (Α.Π.Θ.)
3. Νίκος Παπανικολάου (Δημόκριτος)
4. Γιώργος Κακαράντζας (ΕΙΕ)
5. Σταύρος Πισσαδάκης (ΙΤΕ)

Advisory Committee

1. Στέλιος Κουρής
2. Αλέξανδρος Σεραφετινίδης
3. Κώστας Φωτάκης
4. Ηλίας Χοντζόπουλος
5. Δημήτρης Συβρίδης
6. Ηρακλής Αβραμόπουλος
7. Αντώνης Μπουκουβάλας
8. Κυριάκος Βλάχος
9. Παντελής Παπαδόπουλος
10. Θωμάς Σφηκόπουλος
11. Οικιάδης Άρης
12. Κάνδυλα Μαρία

Topic Representative Keynote Speakers

1. Pelekanos Nikos
2. Balas Costas
3. Papadogiannis Nektarios
4. Vainos Nikos
5. Avramopoulos Hercules
6. Zergioti Ioanna
7. Syvridis Dimitris
8. Riziotis Christos
9. Pleros Nikos
10. Argitis Panagiotis
11. Pissadakis Stavros