

Program

Monday, 15

Why light matters for a new world?

10:00 H

Opening Ceremony: TBC

11:00 H

Light's Twist: an optical technology that matters

Prof. Miles Padgett, Lead the Quantum Imaging Hub, Vice-Principal for Research, University of Glasgow, UK

12:00 H

Why photonics is essential for the sustainable development of the societies

TBC

Evening /16:00 H

Round table I: Light sciences and technologies Impacts

- Prof. Philip Russell, OSA 2015 President.
- Dr. R. Lieberman, SPIE 2015 Elect President
- Prof. X. –C. Zhang, Director Rochester's Institute of Optics. University of Rochester (TBC)
- Prof. John David Richardson, Deputy Director of Optoelectronics Research Centre, University of Southampton, UK
- Prof. Jose Antonio Martín Pereda, Real Academia de Ingeniería de España, Universidad Politécnica de Madrid (coordinador)
- TBC

Tuesday, 16

Light in health care, medicine and the environment

Morning: Light in health care and medicine

9:00 H

Optomechanical effects in microstructured fibres

Prof. Philip Russell, OSA President, Director of Max Planck Institute for the Science of Light, University Erlangen-Nuremberg, Germany

10:30 H

Cancer Imaging with Light

Prof. Bruce J. Tromberg, Director of Beckman Laser Institute and Medical Clinic, University of California, Irvine

11:30 H

Non-invasive Photonic micro-spectroscopic technologies for health care and medicine

Prof. Jüergen Popp, Director Institute of Photonic Technology, Jena, Germany

Evening: Light sciences and technologies in the environment

16:00 H

Terahertz technologies for a more safe and healthy environment

Prof. X.-C. Zhang, Director Rochester's Institute of Optics, University of Rochester, USA

17:00 H

Light based technologies for a more healthy environment

Dr. R. Lieberman, President of Lumoptics LLC, California, United States

Wednesday, 17

Light in communications and sensing

Morning: Communication using light

9:00 H

Title: TBC

TBC

10:30 H

Advanced Fiber Technologies for the next generation of Optical Communications systems

Prof. David Richardson, Deputy Director of Optoelectronics Research Centre, University of Southampton, UK.

11:30 H

Microwave Photonics: marrying the worlds of radiofrequency and optics for future 5G communications and beyond

Prof. José Capmany Francoy, Director iTEAM Institute, Technical University of Valencia, Spain

Evening: Sensing using light based approaches

16:00 H

Sensing Using Light

Prof. José Miguel López-Higuera, Head of Photonic Engineering Group, Universidad de Cantabria, Spain

17:00 H

Towards novel biomedical sensing tools based on the combination of light and nanotechnology

Prof. Romain Quindant, Head of Plasmon nano-optics group, ICFO- The Institute of Photonic Sciences, Barcelona, Spain

Thursday, 18

Light in energy and manufacturing

Morning: Clean energy and lightning using photonic knowledge and technics

9:00 H

Título: TBC

TBC

10:30 H

Non-imaging optics for renewable energy and lighting

Prof. Juan Carlos Miñano, Head of Optics Group , CeDIInt, Universidad Politécnica de Madrid, Spain

11:30 H

Solar cells for efficiencies of 50% and beyond

Prof. Carlos Algora, Head of the III-V Semiconductors Group, Instituto de Energía Solar, Universidad Politécnica de Madrid, Spain.

Evening: Advanced manufacturing using light based technologies

16:00 H

Advanced laser based manufacturing

Prof. Carlos Molpeceres Álvarez, Head of the Group of Advanced Laser-Based Manufacturing, Centro Laser, Universidad Politécnica de Madrid, Spain

17:00 H

Ultrafast and ultraintense laser based disruptive applications

Prof. Luis Roso, Director of Centro de Láseres Pulsados, Salamanca, Spain.

Friday, 19

Education, training and research

9:30 H

Round table: The needs of education of citizens, professionals and researchers on Light based Sciences and Technologies

Prof. María J. Yzuel, Presidenta Comité español del Año Internacional de la luz 2015, Former Pass President of SPIE, Spain.

Prof. Manuel López-Amo, Head Optical-Communications Group Universidad Pública de Navarra Campus, Pamplona, Spain.

Prof. María Luisa Calvo, Vicepresidenta, Real Sociedad Española de Física (RSEF), Universidad Complutense de Madrid, Spain

Prof. Luis Roso, Director, Centro de Láseres Pulsados, Salamanca, Spain.

Prof. José Capmany Francoy, Director iTEAM Instute, Technical University of Valencia, Spain

Prof. Jose Carlos Gómez Sal, President of the R+D+I Executive Committee of CRUE, Rector Universidad de Cantabria.

High representative of Spanish Government on Science and Technology/TBC

12:00 H

Closing ceremony