



Cursos de Verano 2022

SANTANDER



ESCUELA

V International School on Light Sciences and Technologies ISLiST. Core: Light in Sources, Health and Medicine

Del 20 al 24 de junio

DIRECCIÓN

José Miguel López-Higuera

Professor in Electronics and Photonics
Head of the Photonics Engineering Group
University of Cantabria

SECRETARÍA:

Adolfo Cobo García

Professor
Photonics Engineering Group
University of Cantabria

Ciencia y Tecnología

ESCUELA

Light plays a vital role in our daily lives and is being an imperative cross-cutting discipline of science in the 21st century. Today, it is widely accepted that the present century will depend as much on Photonics as the 20th century depended on electronics. ISLiST has been conceived as a great opportunity to review, actualize and improve the knowledge of scientists, professionals and technicians; to contribute to the education and to enhance the motivation of PhD students; to offer an ideal frame for networking and also to contribute to the education of the citizens. It is also a great opportunity to ensure that policymakers, entrepreneurs, and other key "actors" will be aware of the problem-solving potential of Photonics. This international school is envisioned to be a worldwide top International forum (every fourth week of June) on Light Sciences and Technologies in Santander, Spain. In this 2022 edition the V School is focused on Light on Energy and Advanced Fabrication as main core that will be developed by fifteen (15) highly renowned professors and researchers from the most prestigious worldwide institutions and, as well, presidents and CEOs of international Photonic Scientific Organizations and Companies. In addition, the attendees will have the opportunity to practice networking and interchange Knowledge and experiences during the City Council of Santander Reception that will held on June 22, 2022.

Código 6545 – Tarifa C – 1 ECTS

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Solicitud Online

Para cualquier incidencia técnica con la solicitud puede enviar un correo electrónico a: cau@uimp.es



Plazos

Solicitud de becas

- Hasta el día 3 de mayo

Apertura de matrícula

- Desde el 20 de abril de 2022
(plazas limitadas)

Contacto

- De 9:00 a 14:00 h.
- De 16:00 a 18:00 h.
(excepto viernes)

Hasta el 17 de junio

SANTANDER

Campus de Las Llamas
Avda. de los Castros, 42
39005 Santander

📞 942 29 87 00

MADRID

C/ Isaac Peral, 23
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91 592 06 33

A partir del 20 de junio

SANTANDER

Palacio de la Magdalena
39005 Santander

📞 942 29 88 00

alumnos@uimp.es

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Universidad Internacional
Menéndez Pelayo

Lunes 20

10:15 Opening Ceremony

11:00 Extremely intense X-ray Free Electron Laser looking for new Science and Technology Opportunities

Christian Bressler

Lead Scientist and Group Leader, Max Planck Institute for the Structure and dynamics of matter, European XFEL, Hamburg, Germany

12:10 Light in Energy and Advanced Fabrication

José Miguel López-Higuera

15:30 Photovoltaics for highly efficient energy conversion and storage

Carlos del Cañizo Nadal

Director, Solar Institute of the Polytechnic University of Madrid, Spain

16:40 Solar Energy in the Electrical Systems: The Spanish case for 2050

Antonio Gómez Expósito

Lead Scientist and expert in energy systems, University of Seville, Spain

17:55 Justiniano Casas AWARD Ceremony

Image Committee of SEDOPTICA

Carlos del Cañizo Nadal
Antonio Gómez Expósito
Moderación: **José Miguel López-Higuera**

Miércoles 22

09:30 Laser Technology in Photovoltaics

Carlos Molpeceres Álvarez

Director Laser Centre of Polytechnic University of Madrid, Spain

11:00 Laser driven fusion energy: status, challenges and the future

Michael Campbell (Videoconferencia)

12:10 Direct writing of photonic structures and element redistribution processes with femtosecond laser light

Francisco Javier Solís Céspedes

Director of Laser Processing Group, Optics Institute Daza de Valdes, CSIC, Madrid, Spain

15:30 3D and 4D Nanoprinting

Martin Wegener

Director Institute of Nano-technology, KIT
Co- Founder of Nanoscribe, Germany

16:40 Towards a 4D Bioprinting Industry in the fourth industrial revolution

Fabien Guillemot

CEO and Co-founder of Poietis, Aquitaine, France

17:55 Family Photo

18:05 Santander Council Reception

The Santander City Council will offer to ISLisT attendees a special reception that, in addition, will be an optimum time to share experiences and promote networking

Martes 21

09:30 Solar Fuels and Electricity by using Sunlight concentrating Systems

Christian Sattler

Director of DLR's Institute of Future Fuels, German Aerospace Centre (DLR), Germany

11:00 Laser technology in Advanced Batteries fabrication

Mikel Bengoa Zarraz

General Director, Coherent Rofin Spain, Pamplona, Spain

12:10 Nano-photonics in energy conversion and solar fuel production

Jordi Martorell

Group Leader, Organic Nanostructured Photovoltaics, ICFO, Barcelona, Spain

15:30 Round Table I

Light in Energy: Challenges to face

Christian Sattler

Michael Campbell (Videoconferencia)

Director, Lab. For laser Energetics (LLE), University of Rochester, USA

Jueves 23

09:30 Fiber Optic Ultrafast lasers for Advanced Fabrication: currents and trends

César Jaúregui Misas

Dr. Habil

Institute of Applied Physics, Abbe Center of Photonics, Friedrich Schiller University, Jena, Germany

11:00 Microadditive Manufacturing using Laser Direct Write

Carlos Molpeceres Álvarez

12:10 Intense light, a potential tool to be applied in medical imaging

Maite Flores

Group Leader and Secretary of the European Optical Society University of Santiago de Compostela, Spain

15:30 Round Table II

Challenges on advanced manufacturing and creation of New Photonic companies

Martin Wegener

Fabien Guillemot

Carlos Molpeceres Álvarez

Moderación: José Miguel López-Higuera

Viernes 24

09:30 High throughput and high quality laser ablation and Texturing techniques with pulsed lasers

Beat Neuenschwander

Universidad de Berna, Suiza

11:00 Light manipulation and control techniques in industrial processes with pulsed lasers

Beat Neuenschwander

Lead Scientist, laser processing Expert University of Berna, Switzerland

12:15 Closing Remarks, Announcement of ISLisT 2023 and Diploma Delivery



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