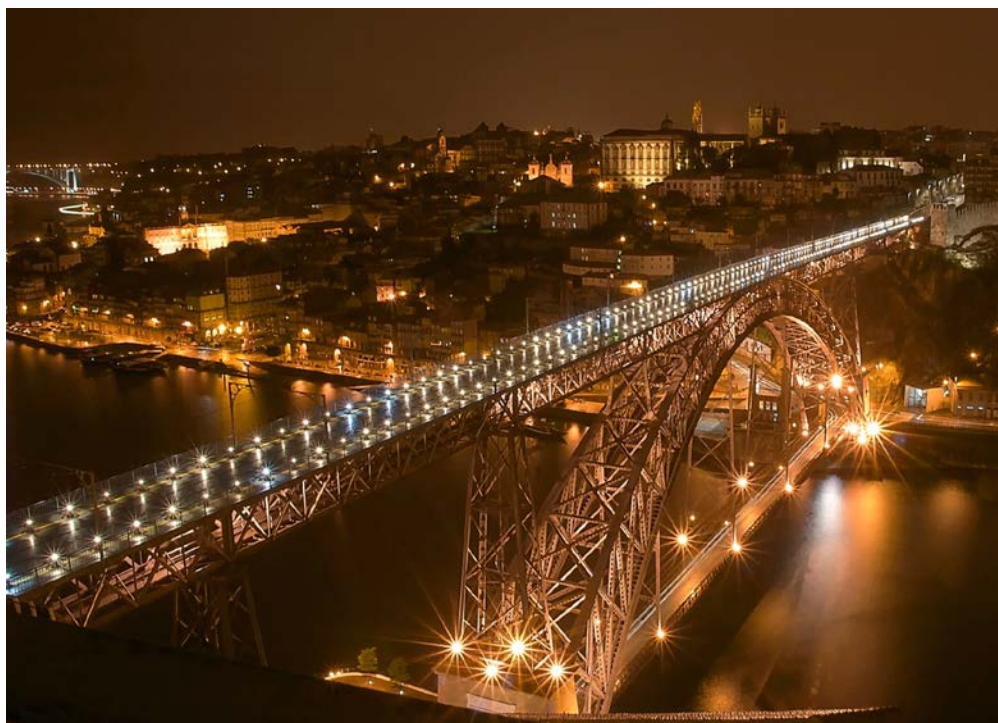


PORTO (PORTUGAL)

Located along the Douro river estuary in Northern Portugal, Porto is one of the oldest European centres, and its historical core was proclaimed a World Heritage Site by UNESCO in 1996. Porto is a lively city with intense cultural and business activity, good connections to the main European cities. The course location is at the Faculty of Sciences at the University of Porto (www.fc.up.pt), which is within walking distance from the city centre.



Reasons for attending ASCOS 2015

- ASCOS has become a leading international course for training on optochemical (bio)sensors and (bio)sensor arrays.
- ASCOS is more than a conference meeting. It brings together young scientists and renown tutors in a relaxed atmosphere that favours learning and creativity.
- Many of ASCOS contacts last beyond the course forming a European "optical sensor network".
- Special sessions on nanotechnology at the International Nanotechnology Laboratory, INL, in Braga, Portugal.

REGISTRATION

ASCOS

ASCOS 2015 aims at providing an education and networking platform to young scientists (PhD students, Post-Docs and outstanding M.Sc. students). To ensure high standards, the number of participants is limited and the minimum education requirement is an M.Sc. degree (or similar) in a field related to optical and/or chemical sensors. Applications from outstanding M.Sc. students will be considered if space is available.

The registration fee covers admission to the course, accommodation (seven nights) with full board, conference materials, coffee breaks, welcome reception and social program.

Registration fee is €660.

Students may apply for a discounted registration fee (€440), which will be provided to a limited number of participants.

Further details and the application form can be found at: www.ascos.org and www.facebook.com/ascos2015

Contact details

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Centre of Applied Photonics INESC TEC

Physics and Astronomy Department

Faculty of Sciences of University of Porto

Rua do Campo Alegre, 687

Porto, Portugal

Email: pedro.jorge@fc.up.pt / ascos.porto@gmail.com

Course Office

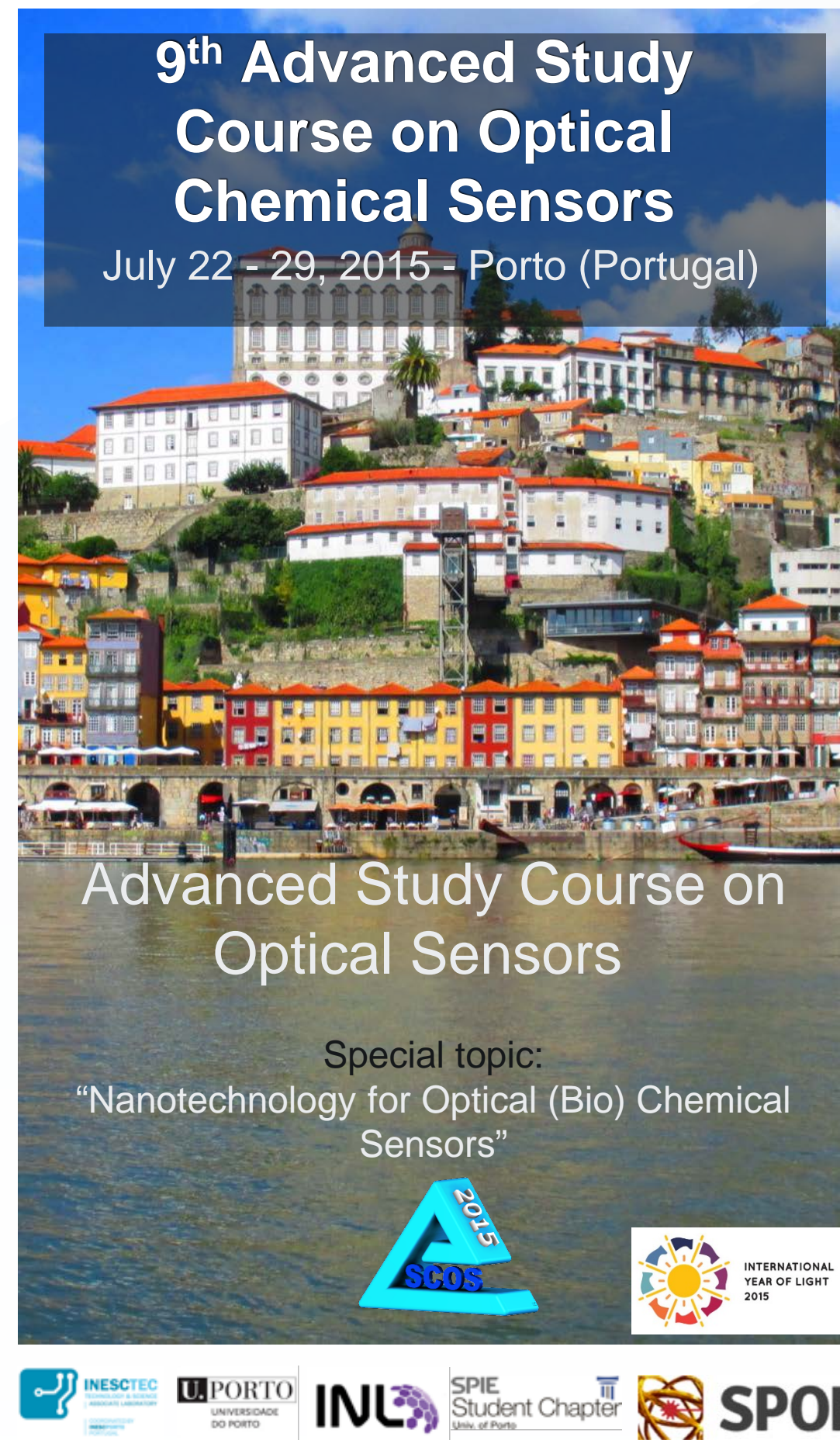
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Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR



9th Advanced Study Course on Optical Chemical Sensors
July 22 - 29, 2015 - Porto (Portugal)

Advanced Study Course on Optical Sensors

Special topic:
"Nanotechnology for Optical (Bio) Chemical Sensors"

ASCOS 2015

INTERNATIONAL YEAR OF LIGHT 2015

INESCTEC
UNIVERSIDADE DO PORTO

UNIVERSIDADE DO PORTO

INL
Student Chapter
Univ. of Porto

SPOF

GENERAL INFORMATION

ASCOS

The Advanced Study Course on Optical Sensors is an ECTS accredited European initiative to establish an education, discussion and contact platform for young researchers working in the rapidly growing field of optochemical sensors and biosensors. ASCOS is a biennial event held each time in a different European country. To guarantee the most efficient study, ASCOS combines tutorial lectures on basic principles of different optical (bio)sensor techniques and student's work in groups on a number of (bio)analytical problems or sensor systems provided at the start of the course.

TOPICS

Fundamentals of sensing techniques and bioassays

- Absorbance and fluorescence
- Chemi- and bio-luminescence
- IR & Raman methods
- Fibre-optics and optoelectronic components
- SPR and other label-free detection techniques
- DNA- and protein array technology
- Microfluidics & lab-on-a-chip systems
- Supramolecular sensors & bio-mimetic receptors
- Probes and sensors for cellular parameters

Special topics on nanotechnology for sensing

- Nanoparticle sensor materials
- Micro and nanofabrication
- Nanoplasmonics

Practical applications

- Environmental monitoring and biodefense
- System integration
- Commercial sensors

CONFIRMED TUTORIAL SPEAKERS

- Francesco Baldini (CNR-IFAC, Firenze, Italy)
- Jirí Homola (IPE, Acad. Sciences, Prague, CZ)
- Laura M. Lechuga (CIN2: CSIC-ICN, Barcelona, Spain)
- Robert Lieberman (Lumoptix, Los Angeles, CA, USA)
- Gerhard Mohr (Joanneum Research, Weiz, Austria)
- Maria C. Moreno-Bondi (Univ. Complutense, Madrid, Spain)
- Paulo Freitas (INL, Braga, Portugal)
- Guillermo Orellana (Univ. Complutense, Madrid, Spain)
- Dmitri Papkovsky (Univ. College Cork, Ireland)
- Otto Wolfbeis (Univ. Regensburg, Germany)
- Frances Ligler (UNC-Chapel Hill and NC State University, NC, USA)
- Pedro Jorge (INESC TEC, Porto, Portugal)
- Aleksandra Lobnik (University of Maribor, Slovenia)
- Martin Kraft (CTR, Villach, Austria)



Important Dates

- Registration & grant application: March 25th, 2015
- Notification of acceptance: May 1st, 2015
- Final registration: June 1st, 2015
- Payment: June 15th, 2015
- Registration details at <http://ascos.org/> and www.facebook.com/ascos2015

ASCOS COMMITTEE

Executive Committee

Francesco Baldini (CNR-IFAC, Firenze, Italy)
Otto S. Wolfbeis (Univ. Regensburg, Germany)
Jirí Homola (IPE, Acad. Sciences, Prague, CZ)
Martin Kraft (CTR, Villach, Austria)

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