Spread science, pushing the frontiers of light and our own knowledge making light work...
The ICONS (ICfo Organization and Network of Students) Student Chapter was created by a group of motivated students in 2004.

Focus on action, activities, professional development and good leadership skills of our members, looking to goal oriented projects.
ICONS structure

Board:
- President
- Vice-President
- Secretary
- Treasurer

Activities coordinators:
- Webmaster
- Outreach
- Seminar

Society Advisor

OSA (2005)
Jens Biegert

SPIE (2008)
Valerio Pruneri

EPS (2010)
Romain Quidant

• Annually elected officers coordinate the ICONS activities
• More than half of ICFO PhD Students are already members
ICONS members from all over ICFO

Quantum Information (Morgan Mitchell)

Quantum Optics Theory (Maciej Lewenstein)

Optical Tweezers (Dimitri Petrov)

Molecular Nanophotonics (Niek van Hulst)

Organic Nanostructured Photovoltaics (Jordi Martorell)

Optical Parametric Oscillators (Majid Ebrahim-Zadeh)

Plasmon Nano-Optics (Romain Quidant)

Torner, Pruneri, Loza-Alvarez, Konstantatos, Durduran
Funding

ICONS is supported by three professional societies and ICFO
ICONS aims at science in a social context

Science
- Biweekly Seminars
- Coffee Sessions
- Industry Visits
- Open Doors
- Outreach

Students
- Networking
- Professional development

Social
- Pizza Meetings
- International Food Festival
- Social Fridays
- ...

Networking
Professional development
Activities on three levels

**International**
IONS (Anshumann, Esteban)
Bilateral Exchanges (Esteban, Yannick)

**National**
Day of the Light (Valeria, Elsa, Yannick)
Fira Recerca en Directe (Miriam, Ramaiah)
Science Week (Valeria, Miriam, Enrique)
Science Workshop for Young Minds

**Internal**
Biweekly Seminars (Stephan, Michael)
Coffee Meetings with Lecturers (Esteban)
Monthly Pizza Meetings for all PhD students (Esteban)
International Food Festival (Enrique)
Social Fridays
Travel around the world with the IONS project

Southampton
Munich
Naples
Glasgow

Moscow, June 2010

Salamanca, April 2011

Galway, March 2010
The activities are for all ICFOnians
Biweekly seminars

What is that?
Scientist from different groups report about their latest projects

Aim
• Improve exchange among researchers at ICFO
• Generate good atmosphere to exchange ideas
• Learn about other fields
• Networking
Biweekly seminars

Quantum Optics
- Quantum Optics Theory
- Quantum Information
- Attoscience and ultrafast optics

Nonlinear Optics
- Optical Parametric Oscillators
- Nonlinear Optical Phenomena
- Optoelectronics
- Organic Nanostructured Photovoltaics
- Attoscience and ultrafast optics

Bio Photonics
- Ultrafast Imaging
- Medical Optics
- Optical Tweezers
- Molecular Nanophotonics

Nano Photonics
- Organic Nanostructured Photovoltaics
- Plasmon Nano-Optics
- Molecular Nanophotonics
- Nanophotonic devices
- Optoelectronics
Biweekly seminars

Quantum Optics
- Quantum Optics Theory
- Quantum Information
- **Attoscience and ultrafast optics**

Nonlinear Optics
- Optical Parametric Oscillators
- Nonlinear Optical Phenomena
- **Optoelectronics**
- Organic Nanostructured Photovoltaics
- **Attoscience and ultrafast optics**

Bio Photonics
- Ultrafast Imaging
- Medical Optics
- Optical Tweezers
- Molecular Nanophotonics

Nano Photonics
- **Organic Nanostructured Photovoltaics**
- Plasmon Nano-Optics
- Molecular Nanophotonics
- Nanophotonic devices
- **Optoelectronics**
Outreach: Research ‘on air’ (live!)

- Contribution to improve the scientific culture of our society
- Open to the public
- Collaboration with ICFO’s outreach department
- Cooperation with other Research projects in Barcelona
‘El Día de la Luz’
(The Day of the Light)

We had an aim

Very important to spread the awareness about Photonics to school students

Topics: Reflexion, Refraction, Scattering and so on

Why?

• Improve interest in Photonics in the young minds
• Motivate students into a career in Photonics

With this objective in mind → 1st Day of the Light

Tremendous success → Motivation to the next step!
Four day workshop addressed to selected high school students

- **Lectures** given by our PhD students and some professors
  - Upgrading knowledge
  - Connecting knowledge

- **Lab activities** from the theory to a real project...
  - Relating knowledge
  - Promoting critical thinking
  - Creating scientists
SCIENCE WORKSHOP FOR YOUNG MINDS

- **ICFO environment** showing how is day-to-day life of a researcher
  - Show the real day-to-day life of a scientist
  - Attract young minds to get involved in science in the future
- **Social activities** we always push frontiers of light... and fun!
  - Integrate the students among themselves and with the PhD students...
SCIENCE WORKSHOP FOR YOUNG MINDS

In the future?
• Repeat this activity every two years
• Consolidate the workshop as a well-established activity for Young Minds at high-school level in Spain.
• Open the call to every European high-school student

Our budget: 7000 €
Meals – 3000 €
Accommodation – 1700 €
Materials – 1200 €
Prizes – 300 €
Social activities – 600 €
Transportation – 200 €
PHDs and professors were volunteers!
http://icons.icfo.es