

2<sup>nd</sup> EPS Young Minds  
Leadership  
Meeting



Mulhouse, June 21<sup>st</sup> 2013

*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.

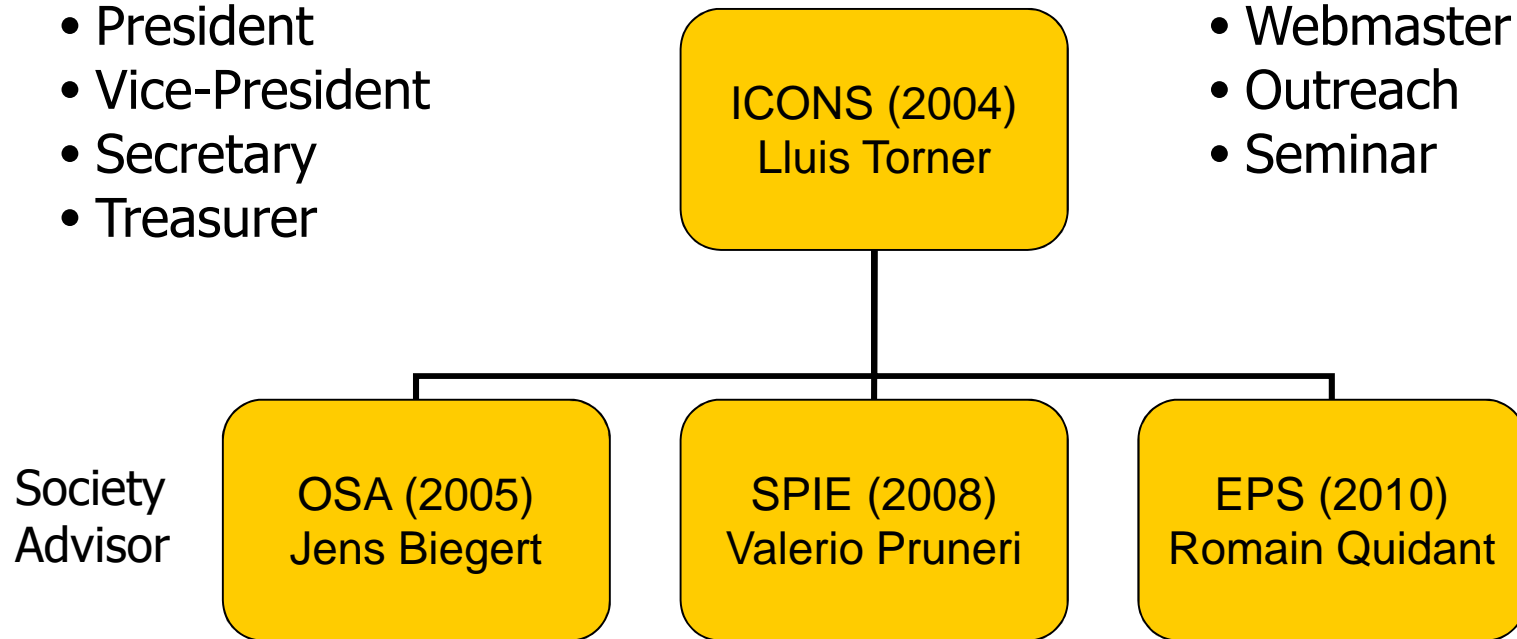
# ICONS structure

Board:

- President
- Vice-President
- Secretary
- Treasurer

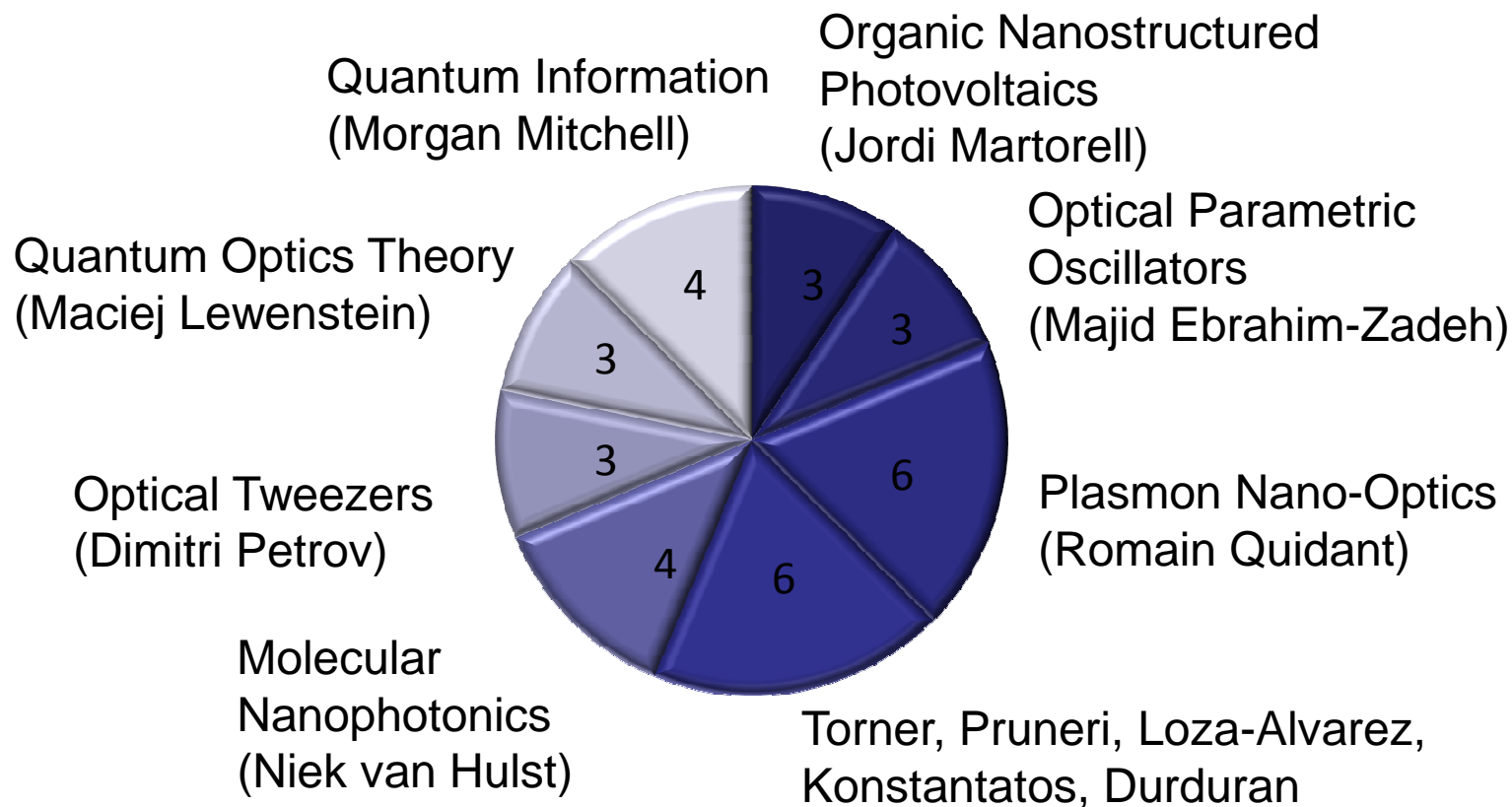
Activities coordinators:

- Webmaster
- Outreach
- Seminar



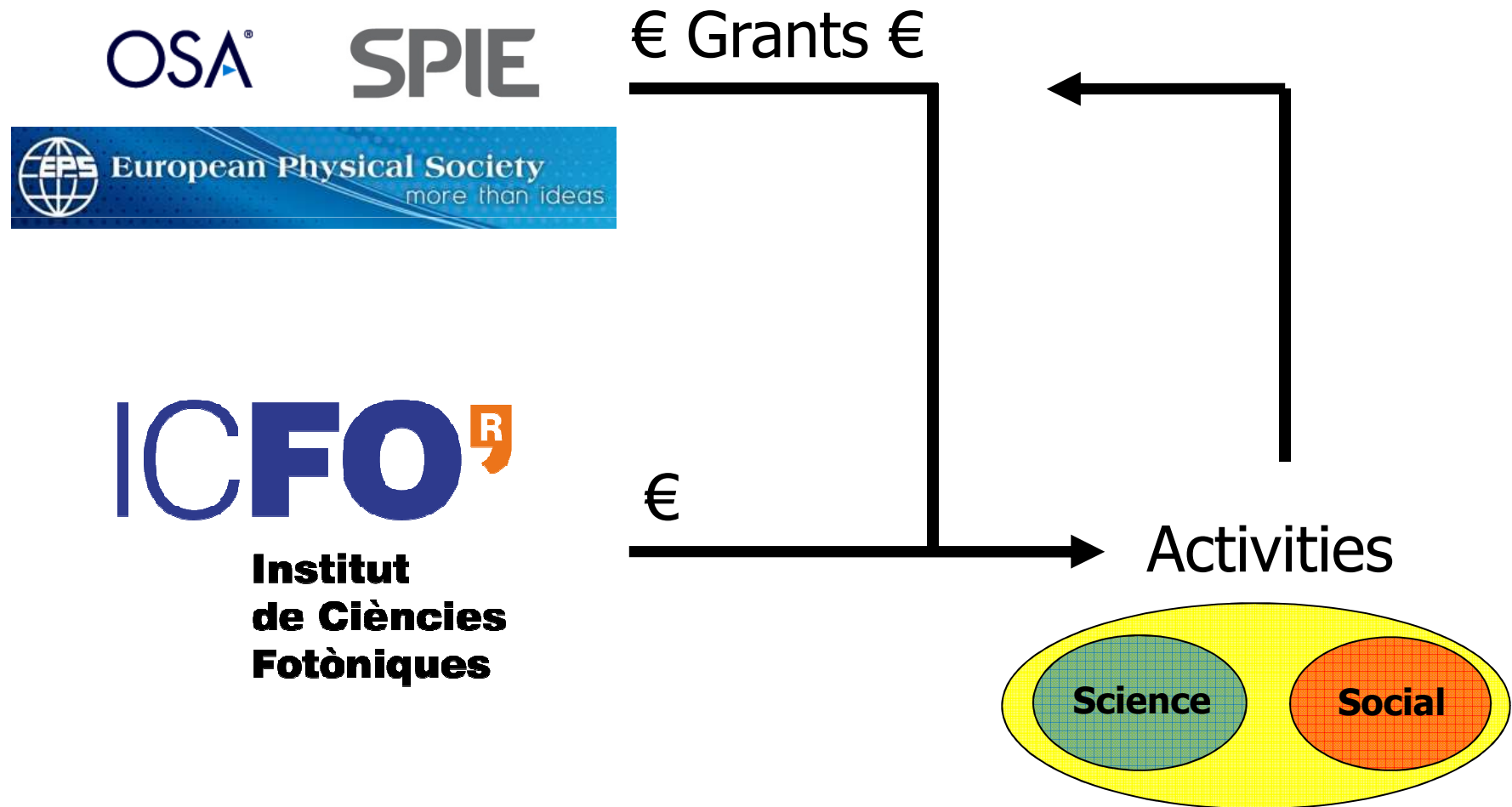
- Annually elected officers coordinate the ICONS activities
- More than half of ICFO PhD Students are already members

# ICONS members from all over ICFO

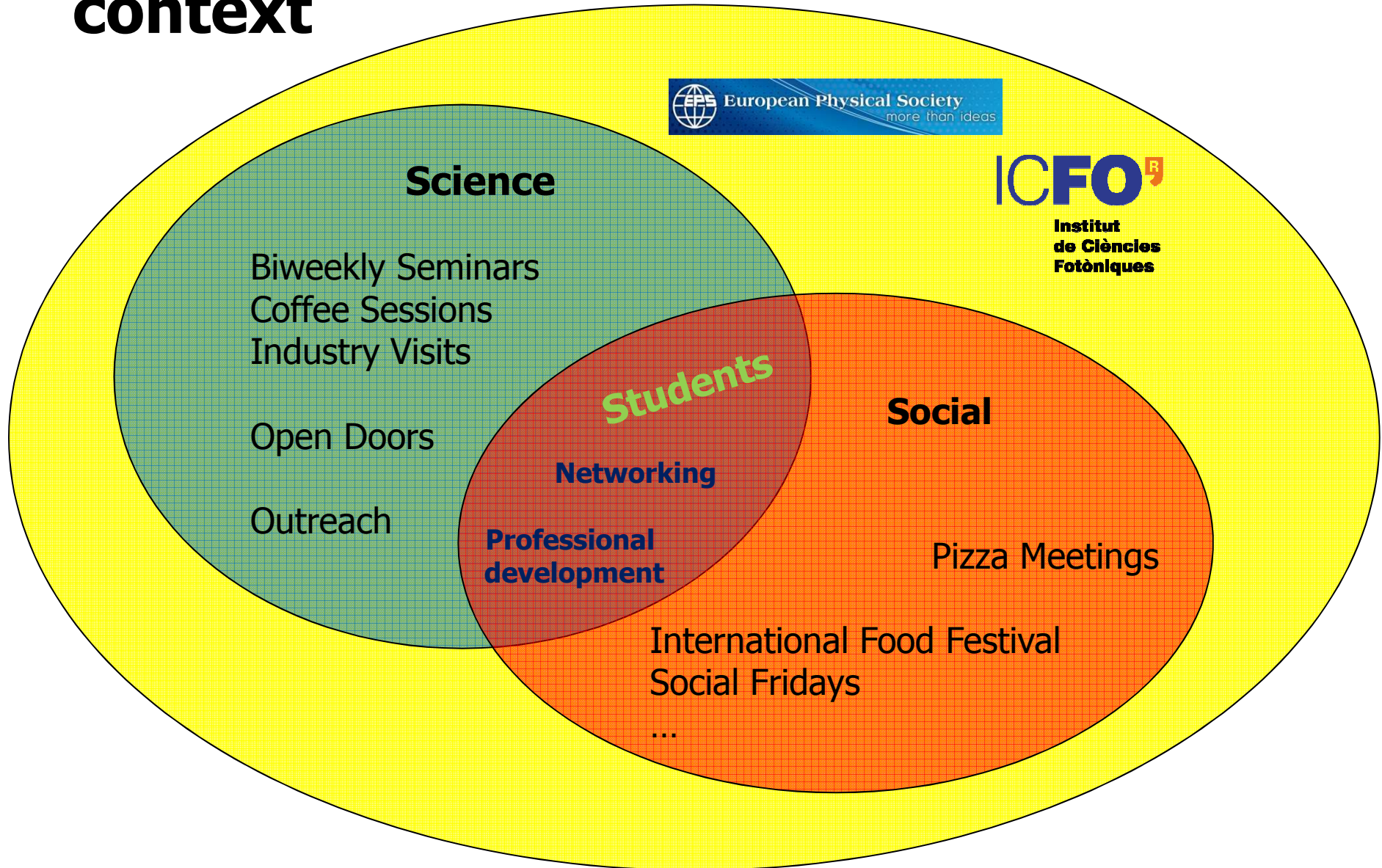


# Funding

ICONS is supported by three professional societies and ICFO



# ICONS aims at science in a social context



# 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



Salamanca, April 2011



Galway, March 2010

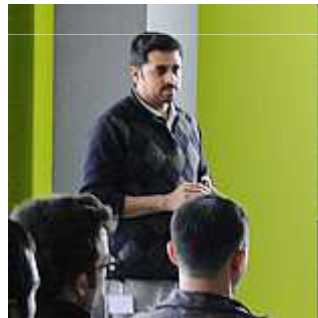


Moscow, June 2010

# 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

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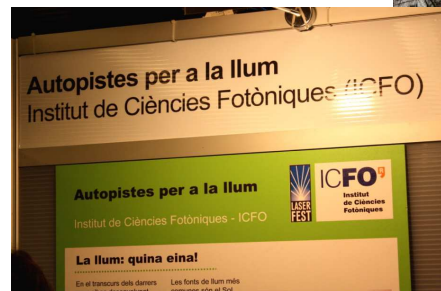
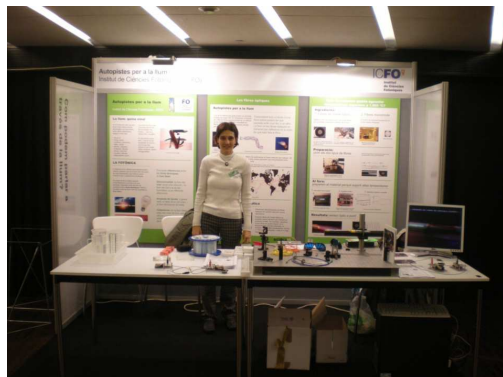
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- Nanophotonic devices
- **Optoelectronics**

# 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 → 1<sup>st</sup> Day of the Light

Tremendous success → Motivation to the next step!

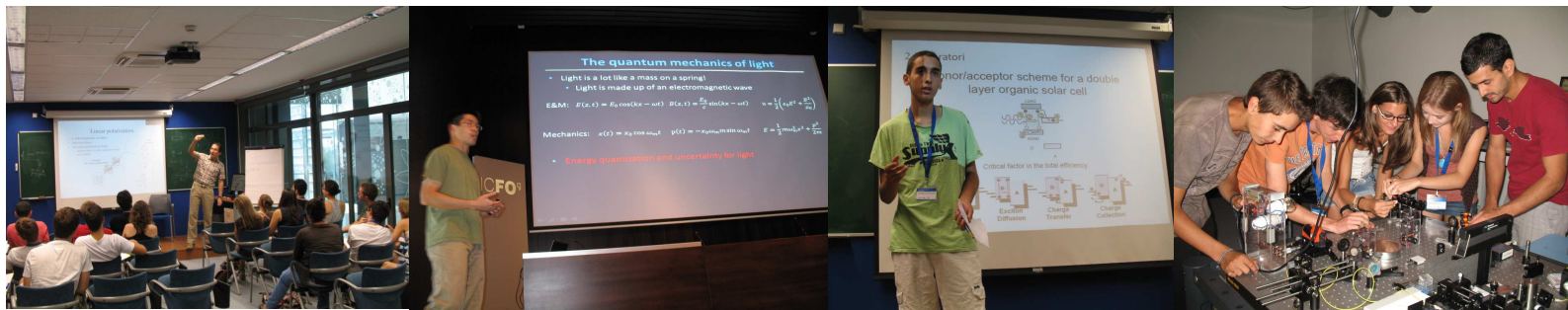


# SCIENCE WORKSHOP FOR YOUNG MINDS



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



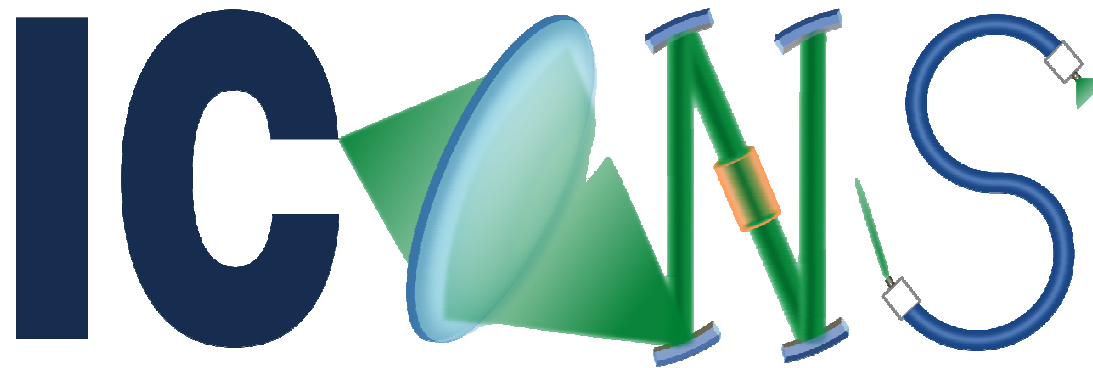
## In the future?

- 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>



the student chapter of

