EUROPHOTONICS Spring School

from *March 31st* to *April 3rd, 2014*

euroPHOTONICS

ERASMUS MUNDUS

KIT Karlsruhe Institute of Technology

UNIVERSITAT POLITÈCNICA DE CATALUNYA

UAB Universitat Autònoma de Barcelona

ICFO The Institute of Photonic Sciences

Lens European Laboratory for Non-Linear Spectroscopy

Aix*Marseille université

Porquerolles Island

Côte d'Azur, *France*

Hôtel Club IGESA

How to get to Porquerolles Island

The EUROPHOTONICS Spring school will be held in the **Hotel Club IGESA,** 300 meters far from the pier of the Island of **Porquerolles**, **Hyères**, **France**.

This is one of a three-island group directly to the South of Hyères, and South East of Marseille.

It is located in a natural park, one of the last intact naturalistic area in the Mediterranean basin.

In order to come to Porquerolles Island, you will need to arrive first at Hyères (see bellow 'By Plane', 'By Train' or 'By Car').
There, a ferry boat will take you to the island.

Upon your arrival,at Hyères, you have to go to **"La Tour Fondue"**, which is the harbour from where boats depart to Porquerolles. The crossing duration is around 10 minutes. http://www.tlv-tvm.com/horaires-tarifs-horaires-14.html

HORAIRE DÉPART DE LA TOUR FONDUE / PORQUEROLLES

Du 31 mars au 18 avril 2014

Départ de La TOUR FONDUE		Retour de PORQUEROLLES	
7h30 (1)	14h30	7h00 (1)	14h00
9h00	15h30	8h30	15h00
10h00	17h00	9h30	16h30
11h00	18h00	11h30	17h30
12h00			18h30
12h30			

NB :

(1). Cet horaire n'a pas lieu les dimanches et jours fériés
(2). Mercredis et samedis, départ reporté à 12h30 sauf pendant les vacances scolaires de la zone B
ATTENTION :
- La Direction se réserve le droit de modifier ou d'annuler tout ou partie de ces horaires sans préavis en cas de mauvaises conditions météorologiques ou pour des raisons techniques.
- Chèques, chèques vacances et cartes bancaires acceptés.
- Tarifs réduits : familles nombreuses, séniors, étudiants ou personnes à mobilité réduite sur présentation de la carte.

➢**By Plane**

The closest airport is **the airport Toulon/Hyères**, which is served by most airlines companies. http://www.toulon-hyeres.aeroport.fr

Upon arrival, it is necessary to go to "**La tours fondue**", which is the port from where boats depart to Porquerolles.

It seems the only option is taking a taxi (tel +33494006000) which takes about 15 minutes and will cost you around 25 euros.

You can also chose to arrive at the I**nternational Airport of Nice**, then take the train to Toulon (see bellow). This can be a good solution if you want to see the beautiful coastline during the pleasant train travel between Nice and Toulon.

http://www.nice.aeroport.fr

➢**By Train**

There are daily links by **TGV** (fast trains) between Paris and Marseille. Then, several express domestic trains (**TER**) will take you from any city in Provence Alpes Côte d'Azur to Hyères (Marseille, Nice, Toulon, Cannes,...)

http://www.sncf.fr

"**La tours fondue**" can be reached by bus (city line starting from the train station) or taxi (tel +33494006000)

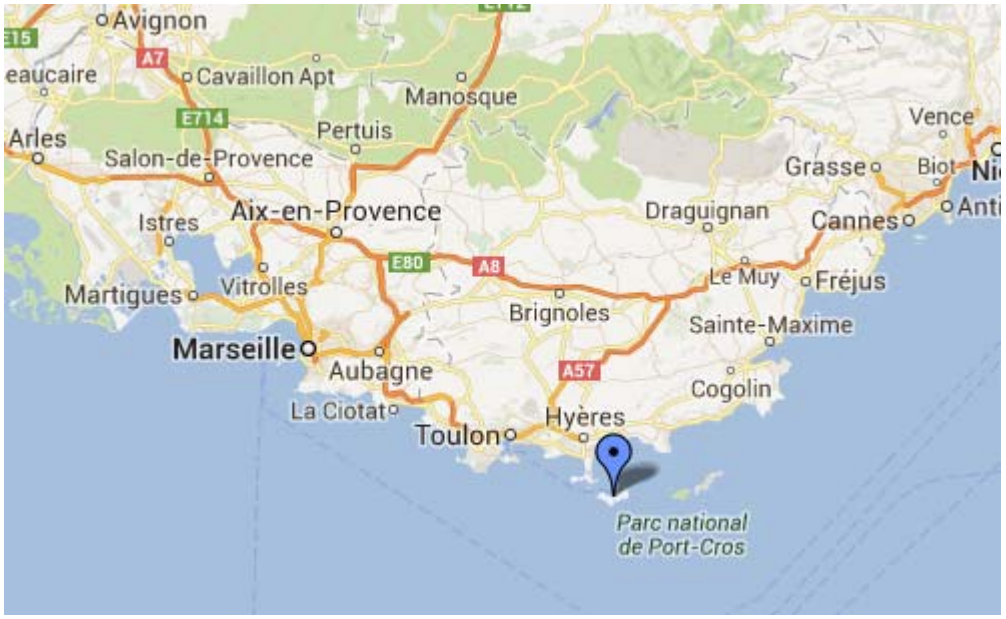
➢**By Car**

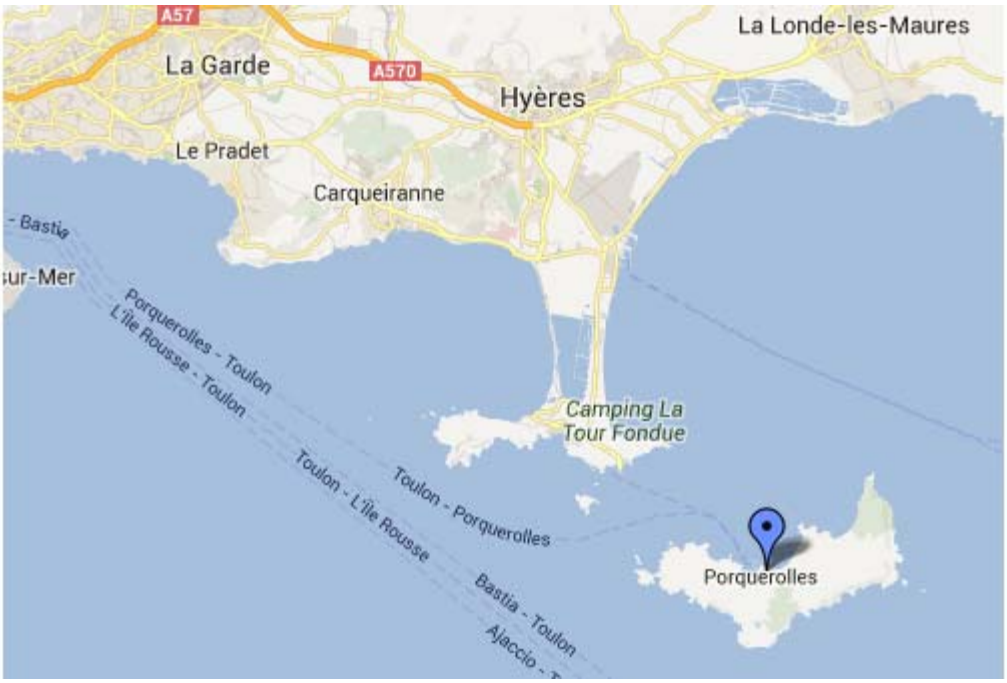
From Paris, take the highway **A7**, then the **A8** towards Aix en Provence/Toulon/Nice and then follow the **A570** as far as **Hyères** and **D97** to « **La Tour Fondue** » (pier to Porquerolles).

From Nice, take the highway **A8** as far as **Hyères** and the **D 97** to « **La Tour Fondue** » .

Ferryboat

A summary of this information, plus additional links, can be found at : http://www.hyerestourisme.com/en/plan.asp


Avignon
A7
Cavaillon Apt
Manosque
E714
Pertuis
Arles
Salon-de-Provence
Vence
Grasse
Biot
Aix-en-Provence
Draguignan
Cannes
Istres
E80
A8
Le Muy
Fréjus
Martigues
Vitrolles
Brignoles
Sainte-Maxime
Marseille
Aubagne
A57
Cogolin
La Ciotat
Hyères
Toulon
Parc national
de Port-Cros


A57
La Londe-les-Maures
La Garde
A570
Hyères
Le Pradet
Carqueiranne
Bastia
ur-Mer
Porquerolles - Toulon
L'île Rousse - Toulon
Camping La
Tour Fondue
Toulon - L'île Rousse
Toulon - Porquerolles
Porquerolles
Bastia - Toulon
Ajaccio

Program

	Monday, March 31st	Tuesday , April 1st	Wednesday, April 2nd	Thursday , April 3rd
7:15 am-8:45 am		breakfast	breakfast	breakfast
9:00 am-10:30 am		**lecture 1 Rainer Heintzmann**	**lecture 4 Heinz Kalt**	**lecture 8 Eva Rauls**
10:30 am -11:00 am		coffee break	coffee break	coffee break
11:00 am -12:30 am		**lecture 2 Mario Agio**	**lecture 5 Kestutis Staliunas**	**lecture 9 Jordi Mompart**
12:30 am -2 pm		lunch	lunch	lunch
2 pm -3:30 pm		break	**lectures 6a -6b Heinz-Siegfried Kitzerow Jörg Lindner**	
3:30 pm -4:30 pm		break	coffee break	
4:30 pm -5:30 pm	**Room keys Registration**	**3 phD talks**	**4 phD talks**	
5:30 pm -7:00 pm		**lecture 3 Pablo Loza-Alvarez**	**lecture 7 Uli Lemmer**	
7:00 pm - 8:30 pm	dinner	dinner	dinner	
8:30 pm - 11:00 pm		**poster session tasting regional products**	**evening talk Hugues Giovannini**	

Lectures

Lecture 1

High-resolution light microscopy imaging

Rainer Heintzmann
Institute of photonic technology, Jena, Germany

Lecture 2

Coherent spectroscopy in strongly confined optical fields

Mario Agio
National Institute of Optics (CNR-INO) and the European Laboratory for Nonlinear Spectroscopy (LENS) in Florence, Italy

Lecture 3

Image formation by light-sheet fluorescence microscopy

Pablo Loza-Alvarez
The Institute of Photonic Sciences, Spain

Lecture 4

Nano-sensing for biological applications

Heinz Kalt
Institute of Applied Physics, Karlsruhe Institute of Technology

Lecture 5

Magic mirror : a flat, but focusing mirror, made of photonic microstructured material

Kestutis Staliunas
Physics and Nuclear Engineering Department, Nonlinear Dynamics, Nonlinear Optics and Lasers Group, Universita Politecnica Catalonia

Lectures

Lecture 6 a
Microscopic studies of plasmonic nanostructures I

Jörg Lindner
Universität Paderborn, Germany

Lecture 6 b
Microscopic studies of plasmonic nanostructures II

Heinz-Siegfried Kitzerow
Universität Paderborn, Germany

Lecture 7
Nanostructured organic optoelectronic devices

Uli Lemmer
Lichttechnisches Institut, Karlsruhe Institute of Technology

Lecture 8
Theoritical modelling of surface structures

Eva Rauls
Universität Paderborn, Germany

Lecture 9
Optics and Atom Optics à la de Broglie-Bohm

Jordi Mompart
UAB (Universitat Autonoma de Barcelona)

Lecture 10 : Evening Lecture

Hugues Giovannini
Institut Fresnel Marseille France

PhD Talks

Talk 1

3D surface reconstruction of the data from multiple deflectometric measurements

Irina Fateeva

Talk 2

A multimodal system for assessing the eye's optical quality

Carlos Enrique Garcia Guerra

Talk 3

Quantitative PolarizedSingle-molecule Localization and Fluctuation-Based Super-ResolutionFluorescence Microscopy reveals orientation order in biomolecular

Haitham Ahmed

Talk 4

Plasmon length tuning of resonant optical antennas and its use for enhancing light harvesting in organic solar cells

Nikola Bralovic

Talk 5

Plasmon--soliton waves in metal/nonlinear

Wiktor Walasik

Talk 6

Quantum emitters in polymeric microresonators

Assegid Mengitsu Flatae

Talk 7

Magic mirrors - flat focusing in reflection

Yu-Chieh Cheng

Posters

Poster 1

Retinal imaging with MEMS scanning mirror for biometric purposes

Svetlana Danilova

Poster 2

Difference Frequency Generation in a Silicon Slot Waveguide

Aleksandar Nesic

Poster 3

Nano-structured Organic Photovoltaic Cells for an Effective Photon Harvesting

Quan Liu

Poster 4

Integrated optical circuits based on Silicon Nitride

Anna Ovvyan

Poster 5

Elliptically polarized light for Depth Resolved Cerebral Blood Flow (CBF) Imaging in Animal Models

Susmita Sridhar

Poster 6

Harnessing Vacuum Forces for Graphene Motion Sensing

Kevin Schädler

Poster7

Ultra short pulse characterization, a new in-situ approach using disordered nonlinear ferroelectric crystals

Bingxia Wang

Posters

Poster 8

Three dimensional strain imaging of InP semiconducting thin films by Coherent X-ray Bragg Ptychography

Anastasios PATERAS

Poster 9

Nanoscale resolution for fluorescence microscopy via adiabatic passage

Juan Luis RUBIO

Poster 10

Shaping of light beams using photonic crystal structures: spatial filtering and focusing

Lina MAIGYTE

Poster 11

Control of Modulation Instability

Shubham KUMAR

Poster 12

Hybrid Solard Cells based on Perovskite Materials

Diana Paola RUEDA DELAGADO

Poster 13

Electrically tuned liquid crystals in three dimensional photonic crystals

Chih-Hua HO

Poster 14

Effect of tensile stress on the dynamics and organization of LFA-1 on living cell membranes

Alberto Sosa

Posters

Poster 15

Monitoring mechanical and structural properties of cells at sub-micrometric scales in 3D

Wei HE

Poster 16

Attosecond Spanning the Water Window: Table-Top X-rays up to 550 eV

Noslen Suarez

Poster 17

Quantum-Enhanced Magnetometry with a Spinor BEC

Simon Coop

Poster 18

Light-sheet microscopy to resolve functionality and structure of Zebrafish neuronal system

Ali Gheisari

Poster 19

Parametric patterns in fiber resonators

Auro Perego

Poster 20

Diamond Integrated Opto-Mechanics

Patrik Rath

Posters

Poster 21

Marker-free Super-resolution imaging using Optical Diffraction Tomography (ODT)

Charankumar GODAVARTHI

Poster 22

High frequency sub nanometric vibrometry : A novel approach based on Frequency sweeping and Optical feedback Interferometry

Ajit Jha

Poster 23

Multi-state atom Interferometer and surface probing through Cold Atom

Murtaza Ali Khan