



**ICFO**<sup>B</sup>



EXCELENCIA  
SEVERO  
OCHOA  
2016 - 2019

Fundació  
Catalunya  
La Pedrera

## New Frontiers in Optical Trapping and Optical Manipulation



# ICFO Schools on the Frontiers of Light PROGRAM

Barcelona, 3-6 July 2017



Fundació Privada  
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UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH



UNIÓN EUROPEA  
Fondos Europeos de Desarrollo Regional



MASTER SCHOOL

SYMPOSIUM

Days	MON 3rd	TUE 4th	WED 5th	THU 6th	FRI 7th
8:30					Registration
9:00	Welcome				Welcome
9:15	Lecture Giovanni Volpe	Lecture Erwin J.G. Peterman	Lecture Raul Rica	Lecture Lukas Novotny	Kishan Dholakia
9:30					Monika Ritsch-Martel
10:15	Coffee				
10:30	Coffee				
11:00	Lecture Erwin J. G. Peterman	Study Session	Study Session	Study Session	Coffee & Posters
12:00	Study Session	Lecture Juan M. R. Parrondo	Lecture Giovanni Volpe	Lecture Lukas Novotny	Reuven Gordon
12:30					Arno Rauschenbeutel
12:45	Lunch				
13:30	Lunch				
14:30	Lecture Juan M. R. Parrondo	Lecture Giovanni Volpe	Study Session	Lecture Raul Rica	Lukas Novotny
15:00					Erwin J. G. Peterman
15:30	Lab tours			Lab tours	Coffee & Posters
16:00	Student Poster Session	Student Poster Session	Transfer to Gothic Quarter	ICFO Poster Session	Andrey Fedyanin
17:00					Giovanni Volpe
17:30	ICONS Social Monday	ICONS Social Tuesday	Walking Tour		Juan M. R. Parrondo
18:00					
18:30					
18:45					
19:00					
19:30					
20:00					
22:00					

**Lecturers & Topics:**

**Lukas Novotny** - ETH Zürich  
**Optomechanics**

**Juan M.R. Parrondo** - Complutense University  
of Madrid  
**Stochastic and information  
thermodynamics**

**Erwin J.G. Peterman** - VU University Amsterdam  
**Biophysics**

**Raúl A. Rica** - University of Granada  
**New trapping techniques**

**Giovanni Volpe** - University of Gothenburg  
**Basics of Optical trapping & Applications of  
optical tweezers on Soft Matter**