



# Photonics for Health

## Poseidon Summer School 2017

San Martino di Castrozza - Italy  
18-22 June 2017

*Sunday 18 June 2017*

Time	Item	
16:30	Venice Airport meeting point	
18:00	Treviso Airport meeting point	
	<b>Bus Transfer to S. Martino di Castrozza</b>	
20:00	<i>Hotel Venue and Welcome</i>	
20:30	<i>Welcome Party and Typical Dinner</i>	
21:30	<i>Opening of the Summer School Participant Presentation</i>	

**DAY 1 – Monday 19 June 2017 – Photonics Day**

**Photonics Theory and Human Health applications**

Time	Item	Speaker
9:00	<b>Guided Tour: Colbricon Lakes</b>	
13:00 – 14:00	<i>Lunch break at Pizzeria La Segheria</i>	
14:00 – 14:50	<b>Nano fabrication processes and photonics nanodevices</b>	<b>Prof. F. Romanato Padua University</b>
15:00 – 15:50	<b>Advanced optical approaches for the functional investigation of the mammalian brain</b>	<b>Dr. Serena Bovetti Italian Institute of Technology</b>
15:50 – 16:00	<i>Coffee break</i>	
16:00 – 16:30	<b>An industrialised pathogen detection kit and platform based on surface plasmon resonance imaging (SPRi)</b>	<b>Dr. F. Piat Prestodiag</b>
16:30 – 17:20	<b>Use of photonic bandgap structures for the development of low-cost analysis systems: the SAPHELY and the PHOCNOSIS projects</b>	<b>Dr. J. G. Ruperez Universidad Politécnica de Valencia -Nanophotonics Technology Center</b>
17:30 – 18:00	<b>Poseidon Project: sampling and conditioning subsystem</b>	<b>Mr. R. Hogendijk Metrohm Applikon</b>
18:00 – 19:30	<i>Free time</i>	
19:30 – 20:30	<i>Dinner</i>	
21.00 – 22.00	<i>Poster Session</i>	





**DAY 2 – Tuesday 20 June 2017 – Biosensing Day**

**Biosensing Theory, food safety, and microbiology applications**

<b>Time</b>	<b>Item</b>	<b>Speaker</b>
8:00 – 13:00	<b>Guided Tour: Caseificio Primiero &amp; Mezzano Village</b>	
13:00 – 14:00	<i>Lunch break</i>	
14:00 – 14:50	<b>Refractometric and colorimetric biosensing using noble metal nanoparticles</b>	<b>Prof. D. Aili</b> Linköping University
15:00 – 15:50	<b>Plasmonic Metamaterials for Biosensing, Fingerprinting and Conformational Analysis of Biomolecules</b>	<b>Prof. C. Cao</b> Queen's University
16:00 – 16:50	<b>Surface functionalization and proper binders choice to optimize biosensing strategies</b>	<b>Dr. P. Parisse</b> Elettra - Sincrotrone Trieste
17:00 – 19:00	<i>Free time</i>	
19:00 – 20:00	<i>Dinner</i>	
20:00 – 20:30	<b>Rais Project: Interferometric microscopy technology</b>	<b>Dr. R. Terborg</b> ICFO
20:30 - 21:00	<b>Rais Project: Incorporation of plasmonics with interferometric imaging microarray</b>	<b>Dr. F. Yesilköy</b> EPFL
21:00 – 21:30	<b>Rais Project: Biofunctionalization protocols, Label-free assays</b>	<b>Dr. M. C. Estevez</b> CSIC
21:30 – 22:00	<b>Rais Project: Microfluidic cartridge and instrument integration</b>	<b>Dr. M. Rabaey</b> Trinean





**DAY 3 – Wednesday 21 June 2017 – Engineering Day**

**Sensor Engineering, microfluidics, and microbiology safety**

<b>Time</b>	<b>Item</b>	<b>Speaker</b>
9:00	<b>Guided Tour: San Martino Pales</b>	
12:30 – 14:00	<i>Lunch break at Rifugio Rosetta</i>	
14:30 – 15:20	<b>Microfluidics and optofluidics subsystems</b>	<b>Prof. K. Hjort Uppsala University</b>
15:30 – 16:20	<b>Microelectronic Technology from Solid State to Flexible Substrates with examples and case study from Symphony Project</b>	<b>Dr. L. Lorenzelli FBK</b>
16:30 – 17:00	<b>Poseidon Project: plasmonics against pathogens</b>	<b>Dr. R. Pierobon Protolab</b>
17:00 – 17:15	<i>Coffee break</i>	
17:15 -17:45	<b>Poseidon Project: validation protocols</b>	<b>Dr. Elena Jimenez Catlab</b>
17:45 – 18:15	<b>Poseidon Project: DVD technology for cheap plasmonic devices</b>	<b>Dr. Elisabetta Pasqualotto ARC</b>
18:15 – 20:00	<i>Free time</i>	
20:30	<b>Gala Dinner at La Canisela Restaurant</b>	





**Thursday 22 June 2017**

**Goodbye Day**

<b>Time</b>	<b>Item</b>	
<i>9:00</i>	<b>Hotel Check out</b>	
<i>10.30</i>	<b>Visit at Clivet spa and Graduation</b>	
<i>12:00</i>	<b>Light Lunch at Clivet spa</b>	
<i>13:00</i>	<b>Bus Transfer to Treviso and Venice Airport</b>	



Horizon 2020

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## Confirmed Speakers

Prof. Filippo Romanato (Padova University & Italian National Council of Research-IOM, Italy)  
Dr. Serena Bovetti (Italian Institute of Technology, Italy)  
Prof. J.G. Ruperez (Universidad Politécnica de Valencia, Spain)  
Dr. Felix Piat (Prestodiag, France)  
Prof. Daniel Aili (Linköping University, Sweden)  
Dr. Cuong Cao (Queen's University, Northern Ireland)  
Dr. Roland Terborg (Institute of Photonic Sciences, Spain)  
Dr. Filiz Yesilköy (École polytechnique fédérale de Lausanne, Switzerland)  
Dr. Maria Carmen Estevez (Consejo Superior de Investigaciones Científicas, Spain)  
Dr. Mathieu Rabaey (Trinean)  
Prof. Klas Hjort (Uppsala University, Sweden)  
Dr. Leandro Lorenzelli (Foundation Bruno Kessler, Italy)  
Dr. Elena Jimenez (Catlab, Spain)  
Dr. Rob Hogendijk (Metrohm Applikon, Netherland)  
Dr. Roberto Pierobon (Protolab, Italy)  
Dr. Elisabetta Pasqualotto (ARC, Italy)  
Dr. Pietro Parisse (Sincrone, Italy)

## University Credits (CFU)

Based on the program, the university students who will attend the school, could ask the recognition of university credits (Credito Formativo Universitario - CFU) to their university. One credit corresponds to 25 hours of activity (individual study, classroom educational activities, internships, etc.) and it exactly corresponds to 1 ECTS (European Credit Transfer and Accumulation System), the measure for recognition of credits on a European basis.

