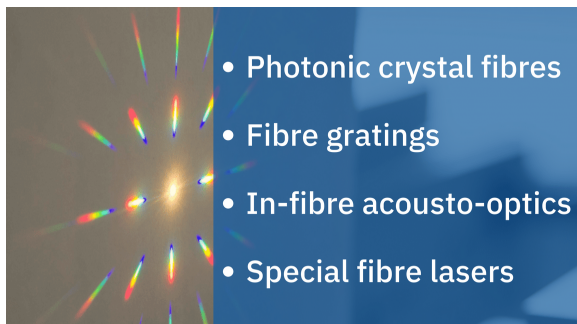


IPN-Bio School & FOPS Meeting

1st – 3rd December 2021, Valencia, Spain.

The consortium of the European Project
Integrated Photonics-Nano Technologies for Bioapplications(IPN-Bio)
organizes in Valencia the IPN-Bio School.

The IPN-Bio School is addressed to Ms, and PhD students, as well as young researchers, interested in bioapplications of photonics technologies. In this 2021 edition the School will focus on **photonic crystal fibre, fibre gratings and in-fibre acousto-optics technologies**, together with special fibre lasers.



- Photonic crystal fibres
- Fibre gratings
- In-fibre acousto-optics
- Special fibre lasers

The School includes technical tutorials, workshops and training on professional development, during the first two days (1st and 2nd December 2021). The third day (3rd December 2021) will focus on scientific and technological recent developments in the joint FOPS Meeting cofunded by project PROMETEO-2019-048 of the Generalitat Valenciana.

Most of the School will be on-line and attendance via videoconference will be enabled. Only workshops will require in site participation.

Registration is free and will be open between 4 October and 8 November, with two options:

- Partial registration for only on-line participation
- Full registration for in-site participation, including the workshops.

In both cases, for registration use the form on this link:

<https://www.fyla.com/ipn-bio-school-fops-meeting/>

More information: www.uv.es/lfo, www.fyla.com/ipn-bio-school-fops-meeting/ and e-mailing ecortes@fyla.com

Organizing Committee

Miguel V. Andrés, University of Valencia

Pere Pérez, FYLA

Xianfeng Chen, Nottingham Trent University

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University of Valencia/FYLA

	1st December	2nd December	3rd December (1)
9:00 – 11:00	Tutorial 1 (1) Photonic crystal fibres Antonio Díez Tutorial 2 (1) In-fibre acousto-optics Miguel V. Andrés	Tutorial 4 (3) Special Fibre Lasers Pere Pérez-Millán School Training 2 (3) Tutorial on Entrepreneurship, Business and Innovation Ismael Almazán	9:00 Joint Meeting Welcome <i>Chairman Dr. Genaro Saavedra</i> 9:30 Multi-perspective 3D microscopy Dr. Manuel Martínez Corral University of Valencia, Spain. 10:05 enLIGHTened biophotonics: optical fiber-based biosensors. Dr. Martina Delgado-Pinar. University of Valencia, Spain. 10:40 Dual-comb interferometry for sensing and metrology applications Dr. Vicente Durán Jaume I University, Spain.
11:00 - 11:30	Coffee Break	Coffee Break	11:15 Coffee Break
11:30 – 13:30	Tutorial 3 (1) Fibre gratings Kaiming Zhou School Training 1 (1) Scientific publication writing, grant application, project planning Xianfeng Chen, and Miguel V. Andrés	Workshop 4 (3) Special Fibre Lasers Héctor Muñoz-Marco and Azahara Almagro-Ruiz	<i>Chairman Dr. José Luis Cruz</i> 11:45 2D Materials Integrated Nonlinear Photonics Prof. Zhipei Sun Aalto University, Finland. 12:20 Rigorous numerical analysis of optical elements composed by liquid crystal Dr. Jorge Francés Monllor University of Alicante, Spain. 12:55 Small period long period grating fabricated using femtosecond laser inscription and sensing application Dr. Kaiming Zhou Aston University, United Kingdom.
13:30 – 15:30	Lunch	Lunch	Lunch
15:30 – 18:00	Workshop 1 (2) Photonic crystal fibres Antonio Díez Workshop 2 (2) In-fibre acousto-optics Martina Delgado-Pinar Workshop 3 (2) Fibre gratings José Luis Cruz	School Training 3 (3) Practical Activities on Entrepreneurship, Business and Innovation Ismael Almazán	<i>Chairwoman Dr. Martina Delgado</i> 15:30 Biophysical systems analyzed on a one-by-one basis by optical manipulation. Dr. J. Ricardo Arias-González Polytechnic University of Valencia, Spain. 16:05 Development of equipment for the characterisation of specialty optical fibres Mr. David Robinson Arden Photonics Ltd., United Kingdom. 16:40 Non-linear Optical Response in Semiconductor Nanowires Dr. He Yang Summa Semiconductor Oy, Finland. 17:15 Temporal tailoring of ultrashort pulses in CPA high-power Yb fibre lasers Dr. Sergio Rota Fyla Laser, S.L., Spain.
			17:50 Closing remarks

Venue: (1) UVEG, Lise Meitner Hall, Faculty of Physics.
 (2) UVEG, Department of Applied Physics.
 (3) FYLA Parque Tecnológico.