

Training School on Laser Applications for Biology and Biomolecular Systems: *an authentic hands-on experience*, 3-7 July 2017, Coimbra, Portugal | Organized by Coimbra Laser Lab, Portugal

Proposed training format and schedule

The School is intended to provide an authentic hands-on experience. In order to pursue this goal, human resources of CLL and associated companies, as well as the spectroscopic, time-resolved and microscopy facilities, will be fully available during the Training School period. The hands-on experiments will be happen in parallel in the designated Laboratories.

Preliminary Timetable

	Day 1	Day 2	Day 3	Day 4	Day 5
09.00h 10.30h	Welcome and school organization	Lectures A, B, C parallel	Lectures A, B, C parallel	Lectures A, B, C parallel	Spectra Physics talk Femtosecond TA IR of relevant biological molecules <i>Peter Hamm</i>
10.30h 11.30h	ADLaser talk Laser safety first <i>Margarida C. Pires</i>	<i>Hands-on A,B,C parallel</i>	<i>Hands-on A, B,C parallel</i>	<i>Hands-on A,B,C parallel</i>	LaserLeap talk Biocompatible molecules for treatment and diagnostic <i>Luis G. Arnaut</i>
11.30h 12.30h	MTBrandão talk Time-resolved spectroscopy and imaging to study structure-function relationships in biological systems <i>Tony Parker</i>				iThera Medical talk In-vivo Photoacoustic imaging <i>Steven Ford</i>
12.30h 14.00h	Lunch	Lunch	Lunch	Lunch	Lunch
14.00h 15.30h	SORS Demonstration <i>Tony Parker</i>	<i>Hands-on A,B,C parallel</i>	<i>Hands-on A, B,C parallel</i>	<i>Hands-on A,B,C parallel</i>	Results presentation
15.30h 17.00h	Sarspec talk Spectroscopic analysis of biological samples <i>Goreti Sales</i>		Lecture D, E parallel Visit to D Demonstration E parallel		Closing session
17.00h 18.00h	Demonstration Sarspec	Results analysis	Results analysis	Results analysis	
			<i>Dinner</i>		

Color code	Activity type	# Hours
	Hands-on experimental work	16
	Sponsored invited academic lectures	7
	Lectures on specific experimental techniques and data analysis	10
	Joint lunches and dinner	9
	Organization	3

	Laboratory
A	Cryo & Bio Spectroscopy
B	Transient Absorption & Photoacoustics
C	Fluorescence
D	Laser Multiphoton Microscopy
E	Raman Imaging