

PowerLaPs

“Innovative Education & Training in High Power Laser Plasmas”

Erasmus+ PowerLaPs

High Power Laser Plasma Physics

2 Year LaPs in Europe

5 Days Intensive Training
+ 2 Annual Intensive Programmes
 #2 weeks teaching, hands-on training & simulations

2018 Plasma Physics
 High Power Laser Matter Interactions /
 High Energy Density Physics

2019 Computational Modeling & Simulations
 in Laser Matter Interactions
 Laser Plasma Diagnostics

Teaching, Training & Applying
 High Power Laser Plasma Physics

**THEORY
 EXPERIMENTS
 SIMULATIONS**

Participating Organisations	TEI OF CRETE - Coordinator	2 Weeks IP	2018 & 2019 July	M. Tatarakis	m.tatarakis@chania.teicrete.gr
	UNIVERSITY OF IOANNINA	Multiplier Event	2019	M. Benis	mbenis@uoi.gr
	UNIVERSITY OF YORK	Kick-off Meeting	2017 November	J. Pasley	john.pasley@york.ac.uk
	QUEEN'S UNIVERSITY BELFAST	Intensive Training	2018 March	B. Dromey	b.dromey@qub.ac.uk
	UNIVERSITE DE BORDEAUX	Intensive Training	2018 January	D. Batani	dimitri.batani@u-bordeaux.fr
ECOLE POLYTECHNIQUE	Kick-off Meeting	2018 November	M. Koenig	michel.koenig@polytechnique.edu	
CZECH TECHNICAL UNIVERSITY	Intensive Training	2019 January	J. Limpouch	jiri.limpouch@jfifi.cvut.cz	
UNIVERSIDAD DE SALAMANCA	Intensive Training	2019 March	L. Volpe	lvolpe@clpu.es	

Programme	Erasmus+
Key Action	KA2. Cooperation for innovation and the exchange of good practices
Action	KA203. Strategic Partnerships for higher education
Main objective of the project	Development of Innovation
Project Title	Innovative Education & Training in high power laser plasmas
Project Acronym	PowerLaPs
Project Start Date	01-10-2017
Project End Date	30-09-2019

Innovative Education & Training in high power laser plasmas " - PowerLaps aims to trigger the last year Bachelor, Master and PhD students, to enhance their studies and improve their skills for employability in the scientific area of Plasma Physics and High Power Lasers. The educational and the relevant training methods will focus on four thematic priorities:

- I. Plasma Physics
- II. High Power Laser Matter Interactions/High Energy Density Physics in theory and practice
- III. Plasma Diagnostics
- IV. Computational Modeling & Simulations in Laser Matter Interactions.

The courses will be developed, in a period of two years, in the form of state of the art theoretical, applied and laboratory training accompanied by intensive programmes in the worldwide arising and rapidly expanding field of high power laser plasmas. Attendants will gain skills through study and training inside and outside of their countries that will encourage cross-border co-operation and increase higher education quality and profession skills. Attendants that will successfully complete the educating and skill development program will gain high quality and professional training from top scientists & engineers in the innovative fields of laser produced plasmas, laser physics and fusion, focused at plasma research in the academic or the private sector of plasma industry, optoelectronics, microelectronics, material processing, fusion engineering and relevant leading edge laser innovations.

Participating Organizations

Technological Educational Institute of Crete (<u>Applicant</u>)	Greece
Panepistimio Ioanninon	Greece
University of York	United Kingdom
The Queen's University of Belfast	United Kingdom
Universite de Bordeaux	France
Ecole Polytechnique	France
Universidad de Salamanca	Spain
Ceske Vysoke Uceni Technicke V Praze	Czech Republic

For further information contact Assist. Prof. Emmanouil Benis, mbenis@uoi.gr.