

1st LPR-ST Workshop

May 20-21, 2026



LPR-ST
Laser, Plasmă, Radiație - Știință și Tehnologie

LPR-ST

SPIE.



STUDENT
CHAPTER

INSTITUTE FOR
ATOMIC PHYSICS

Venue: C400 – FOTOPLASMAT seminar room, 2nd floor , Atomistilor 409, Măgurele, Romania



	Wednesday, 20.05.2026	Thursday, 21.05.2026
9:30 – 9:45	Registration	Chair: Aurelian Marcu – INFLPR Alexandra BRAN <i>Polymeric scaffolds of various pore curvatures fabricated by two photon polymerization for cancer research</i>
9:45 – 10:00		Iulia Ioana LUNGU <i>Dacarbazine-loaded iron oxide nanosystems – from synthesis to cancer therapy</i>
10:00 – 10:15	Cosmin ARTAN & George GRIGORAS - MDPI <i>Academic Article Writing Techniques</i>	Islem MESKIN <i>Synthesis and Characterization of a Novel Keggin-Type Polyoxotungstate with Ca²⁺-ATPase Inhibition Activity</i>
10:15 – 10:30		Georgiana IVAN <i>Periodontitis diagnosis by polarized Raman Spectroscopy</i>
10:30 – 10:45		Diana-Elena DRĂGHICI <i>Scintillating Nanocomplexes for High Power Laser-Driven X-Ray Photodynamic Therapy</i>
10:45 – 11:00		Ionuț-Petrișor UNGUREANU <i>Inducing and Controlling Oscillations in Hanging Droplets via Vapor-Mediated Coupling</i>
11:00 – 11:30	Coffee break	Coffee break
11:30 – 11:45	Chair Catalin Ticos – ELI-NP Darius-Adrian VESTEA <i>Study of Giant Electro-Magnetic Pulses in laser-thin foil interactions at varying laser powers at PW regime</i>	Ada ROSETI & Flori PISLAN <i>Lucru în echipă în cercetarea științifică</i>
11:45 – 12:00	Beatrice PARASCHIV <i>Phase transitions in plasma crystals induced by high-energy pulsed electron beams</i>	
12:00 – 12:15	Alexandru MĂGUREANU <i>Development of double-layer foam targets for optimising laser-driven proton acceleration</i>	
12:15 – 12:30	Cecilia OANĂ <i>Theoretical analysis of tiled-aperture coherent combination of two femtosecond pulses</i>	
12:30 – 12:45	Dmitrii NISTOR <i>Assessing Optical Damage Risks by Simulating the Amplification of Back-Reflection in a Multi-Petawatt Laser system</i>	
12:45 – 13:00	Andrei RUSU <i>Contour laser cutting of metallic materials</i>	
13:00 – 14:00	Lunch	
14:00 – 14:15	Catalin PĂTRU <i>Work Smarter Together</i>	Chair Catalin Ticos – ELI-NP Cristina TOMA <i>A low cost mobile air quality monitoring system: design, development and future directions</i>
14:15 – 14:30		Eliseia PETRE <i>3D-printed optical fiber tips for sensing applications</i>
14:30 – 14:45		Roxana GHITA <i>Laser direct writing-two photon polymerization of 3D polymeric microstructures for titanium based implant surface engineering</i>
14:45 – 15:00		Ana TIULEANU <i>Spatio-temporal mapping of transient magnetic fields with nonlinear crystals</i>
15:00 – 15:15	Chair Mihai Boni– INFLPR Elisa Gabriela BROASCĂ <i>Efficient Methylene Blue Photodegradation on TiO₂ Thin Films Fabricated by Pulsed Laser Deposition</i>	Dorin MOLOVATA <i>Spatial measurement of magnetic field using magneto-optical crystals</i>
15:15 – 15:30	Maria BALAN <i>Fabrication of ZnO Nanowire-Coated Targets for Laser Particle Acceleration</i>	Vlad GACIU <i>Machine Learning for Laser Diagnostics</i>
15:30 – 15:45	Alexandru DAN <i>Obtaining CsI Pixellated Scintillating Detectors</i>	Radu ORGHIDAN <i>Perfect your Thesis</i>
15:45 – 16:00	Khadija BOUCHANE <i>Flexible Laser-Induced Graphene Sensors for Real-Time Agro-Food Quality Monitoring</i>	
16:00 – 16:15	Paul Wilhelm RAUECKER <i>Utilizing computer vision to enable quantitative analysis of SEM images</i>	
16:15 – 16:30	Andrei ZANCU <i>Functionalized CeO₂ Chemiresistive Device for Selective H₂S Detection</i>	