

Session Program

2-6 Nov 2026

**27th Symposium on Photonics and Optics
(SPO 2026)**

***Workshop on Laser Processing of Materials
for Advanced Optoelectronic Applications***

Online (Zoom)

Thursday 5 November

09:05

Workshop on Laser Processing of Materials for Advanced Optoelectronic Applications: Session 1: Ultrafast Ablation and Laser Modification of Materials

Session | **Location:** Online (Zoom) | **Convener:** Volodymyr Dzhagan

09:05–09:35

Advances in Efficiency Optimization of Ultrashort Pulse Laser Ablation of Metals

Speaker

Mindaugas Gedvilas

09:35–10:05

Laser modification of VO₂

Speaker

Amit Verma

10:05–10:25

Raman spectroscopy analysis of laser-induced graphene on polymer

Speaker

Vladyslav Dzhahan

10:25–10:40

Fabrication, Optical, and Electrical Properties of Laser-reduced Graphene Oxide Films

Speaker

Danylo Havryliuk

10:40–10:55

Calibration and Application of Industrial Laser Systems for Thin-Film Optoelectronics

Speaker

Stanislav Serhiichuk

10:55

11:15

Workshop on Laser Processing of Materials for Advanced Optoelectronic Applications: Session 2: Laser Synthesis and Direct Laser Writing

Session | **Location:** Online (Zoom) | **Convener:** Volodymyr Dzhagan

11:15–11:45

Nanosecond laser-driven local synthesis of semiconductors: from 2D materials to supersaturated Ge-based alloys

Speaker

Enrico Di Russo

11:45–12:00

Laser-Induced Crystallization of Ge/Sn Multilayer Amorphous Films

Speaker

Prof. Volodymyr Yukhymchuk

12:00–12:15

Real-time optical inspection and classification of defects in DLW-microstructures

Speaker

Ievgen Beliak

12:15-12:30

Deep learning methods for inverse design of diffractive optical elements taking into account technological limitations of direct laser writing

Speaker

Oleksii Manko

12:30