

Ministry of Education and Science of Ukraine
Scientific Council on Laser Physics and
Laser Technologies of NASU, Ukraine
Institute of Physics of NASU, Ukraine
V. Lashkarev Semiconductor Physics Institute
of NASU, Ukraine
G. Karpenko Physical Mechanical Institute of NASU,
Ukraine
Riga Technical University, Latvia
University of Rzeszow, Poland
&
**I. Franko Drohobych State Pedagogical University,
Ukraine**



SCIENTIFIC AND TECHNICAL
CONFERENCE

LASER TECHNOLOGIES. LASERS AND THEIR APPLICATION *LTLA-2023*

*June 29-30, 2023
Truskavets, Ukraine
(ONLINE)*



*Program committee hereby invites you to take part in
Scientific Conference
“Laser technologies. Lasers and their application”*

TOPICS OF THE CONFERENCE

- 1. Physical and mathematical fundamentals of laser systems:**
 - Mathematic modeling of radiant technologies;
 - Interaction of highly concentrated energy currents with surface;
 - Functional materials for laser equipment.
- 2. Development of lasers and laser systems:**
 - Energy transfer dynamics in lasers
 - Heat processes in lasers;
 - Laser media development;
 - Laser system modelling and optimization.
- 3. Laser processing of materials:**
 - Technological lasers;
 - Laser technological system;
 - Equipment for lasers and mixed technologies;
 - Ablation, modification, annealing, precipitation, treatment and marking by laser bundle.
- 4. Laser deposition:**
 - Modeling of laser deposition processes;
 - Pulsed laser deposition;
 - Equipment for plume laser deposition;
 - Deposition of thin films and film structures.
- 5. Laser technical and technology applications:**
 - Diagnostics on the basic of laser transmitters;
 - Laser gauges;
 - Laser lithography;
 - Optoelectronic laser systems.
- 6. Lasers in nanotechnologies:**
 - Cluster, nanotubes and nanoparticles formation;
 - Nanosized processing and structuring;
 - Nanosized diagnostics.
- 7. Biomedical laser applications:**
 - Laser applications in medicine;
 - Laser applications in biological systems.

SCIENTIFIC PROGRAM COMMITTEE

Chairmen prof. Taranenko V. Institute of Physics of the NASU, Ukraine
Chairmen prof. Stefaniuk I. University of Rzeszów, Poland
Chairmen prof. Virt I. Ivan Franko Drohobych State Pedagogical University, Ukraine
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prof. Muravskyy L. Karpenko Physico-Mechanical Institute of the NASU, Ukraine
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prof. Prokhorenko S. Lviv Polytechnic National University, Ukraine
prof. Stolyarchuk I. Ivan Franko Drohobych State Pedagogical University, Ukraine
prof. Tetyorkin V. V.Lashkaryov Institute of Semiconductor Physics of the NASU, Ukraine
prof. Vlokh R. Institute of Physical Optics of the NASU, Ukraine
prof. Voloshinovskii A. Ivan Franko National University of Lviv, Ukraine
prof. Wal A. University of Rzeszów, Poland
prof. Wnuk M. University of Rzeszów, Poland

CONFERENCE LANGUAGES

English will be working language. Oral and Poster presentations are planned.



DEADLINES

- Application for the participation of the conference and sending the report theses – **by Maj 15, 2023.**
- Information on the report entry into the conference program – **by June 10, 2023.**
- Distribution the invitations to the conference to participants – **by June 10, 2023.**
- Arrival and registration of the participants – **June 29, 2023.**
- Start of the conference – **June 29, 2023.**
- End of the conference – **June 30, 2023.**

CONFERENCE MATERIALS

Abridged texts of reports will be published as a collection of conference works and handed in during the registration.

The selected papers will be published in the “Materials Science”, “Coatings-Semiconductor Thin Films”, “Ukrainian Journal of Physical Optics”, “Ukrainian Journal of Mechanical Engineering and Materials Science”.

REQUIREMENTS TO THE REPORTS DESIGN

Register using the “registration form” on the conference web-site: <https://lta.pl>

Reports theses (1 full pages) is to be sent to <laser2023@ukr.net> before Maj 15, 2023.

Texts should be in English.

Title for the abstract

(Times New Roman, 16 pt, Bold)

A.Presenter¹ , B. Co-author² (Times New Roman, 12 pt)

¹*affiliation (Times New Roman, 11 pt, Italic)*

²*affiliation (Times New Roman, 11 pt, Italic)*

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Here is the core text (Times New Roman, 12 pt).

Note that the abstract has to fit within one page.

The abstract file should be sent as a digital file in *.doc or *.docx format. PDF files are not acceptable. Please rename this file into *Name_of_the_presenting_author.doc*.

If there is more than one abstract from the same author, the name of the author should be followed by a corresponding number (maximum 2).

[1] Reference (Times New Roman, 10 pt).

[2] Reference (Times New Roman, 10 pt).

- Margins: left, write, upper, lower – 25 mm.

- References should be numerated in the order of the appearance in the text, reference numbers in square parentheses.

PLACE

Conference-hall of Beskyd Hotel, Truskavets, Ukraine – “**ONLINE**” using the **MS Teams** platform.

PARTICIPATION FEE

The estimated cost participants is free of charge. Conference fee does not include accommodation and not include funds for the publication of the article in the selected journal..

Organizing & Local Committee

prof. Virt I. – chairmen (UR);
dr. Kuzyk O. – secretary (DSPU);
dr. Potera P. – secretary (UR).

Members:

dr. Adamiak S. (UR), Cieniek B. (UR), Frolov S. (IOP),
dr. Lymarenko R. (IOP), dr. Voitovych K. (DSPU).

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E-mail: laser2023@ukr.net, isvirt@email.ua

Web-site: <https://lta.pl>