

XX Anniversary International Conference on Thin Film Physics and Nanotechnology (ICPTTFN-XX)

October 6-10, 2025

<https://conference.pnu.edu.ua/icpttfn/>

The history of conferences on Physics and Technology of Thin Films began in 1975.

Since 2017, by the initiative of the Ukrainian Physical Society and the Organizing Committee, the Conference has been named after its founder, a renowned Ukrainian scientist and Professor at Vasyl Stefanyk Precarpathian National University, **[Dmytro Freik](#)**.

The ICPTTFN Conference covers a wide range of topics related to thin-film and nanostructural materials science, including thin film technologies, nanotechnologies, nanomaterials, and quantum-size structures. It also focuses on the physical and chemical properties of thin films and nanostructures, approaches to physical and mathematical modeling of nanoscale objects (both analytical and computational), and applied aspects of these issues – thin-film components of electronic devices, particularly devices for photoelectronics, spintronics, nanoelectronics, and nanophotonics.

The conference has been continuously expanding its scope. In 2023, an important addition was made to the conference's themes, related to the biomedical applications of thin films and nanosystems. This aligns with Ukraine's strengths in the global scientific community and its aspirations to remain among the leaders in current research on the micro- and nanoscale. From 2025, the Conference themes will further broaden to include more applied applications: thin films and nanosystems for space, energy, medicine, security, and more.

The relevance of the Conference's topics has made it well-known both in Ukraine and internationally. Throughout its history, the Conference has been attended by prominent scientists from leading global research centers.

ADDRESS

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TOPICS

1. Thin films technology and research methods.
2. Theoretical investigation: thin films and nanomaterials.
3. Physical-chemical properties of thin films.
4. Nano- and thin films applications: energy, biotechnology & medicine, defense, space, etc.
5. Functional crystalline materials and materials with nanoinclusions.
6. Nano- and Thin films: History of inventions and features of University's educational programs.

DATA

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|----------------------|--|
| 10.09.2025 | – Abstract submission deadline |
| 01.10.2025 | – Deadline for Organizing Fee (<i>on-line participation</i>) |
| 06.10.2025 | – Deadline for Organizing Fee (<i>in-person participation</i>) |
| 06.10.2025 | – Registration of participants, Opening of Conference |
| 06-10.10.2023 | – Conference sessions |

REGISTRATION AND ABSTRACT SUBMISSION

Participant registration and abstracts submission will be **online only**:

Online
registration

<https://forms.gle/XznzZkd1MNCbNkeu8>



HISTORY:

ICPTTFN-XIX: Invited speakers

ICPTTFN-XIX: Invite report
October 9-14, 2023

CHARGE-CARRIER
TRANSPORT IN THIN FILM
SOLAR CELLS:
NEW FORMULATION



PROF. YURIY GUREVICH



UNIVERSIDAD DE SALAMANCA
INSTITUTO MEXICANO DEL PETRÓLEO;
DEPARTAMENTO DE FISICA, CINVESTAV DEL I.P.N.
SALAMANCA, SPAIN;
MEXICO, MEXICO

ICPTTFN-XIX: Invite report
October 9-14, 2023

PHASE DIAGRAMS, POLAR
AND ELECTROPHYSICAL
PROPERTIES OF THE
NANOSTRUCTURE
"GRAPHENE ON HfZr_{1-x}O₂
THIN FILM"



PROF. MAKSYM STRIKHA



TARAS SHEVCHENKO KYIV NATIONAL
UNIVERSITY;
V.LASHKARIOV INSTITUTE OF SEMICONDUCTOR
PHYSICS, NAS OF UKRAINE
KYIV, UKRAINE

ICPTTFN-XIX: Invite report
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UNDERSTANDING OF
NANOSCALE
ORGANIZATION OF
PHARMACEUTICAL SOLIDS
AND BIOMATERIALS



PROF. YAROSLAV KHYMYAK



UNIVERSITY OF EAST ANGLIA
NORWICH, UNITED KINGDOM

ICPTTFN-XIX: Invite report
October 9-14, 2023

DISSECTION OF HIGH-
DIMENSIONAL DATASETS
QUANTIFYING COMPLEX
BIOMEDICAL SYSTEMS AT
THE MOLECULAR LEVEL



DR. MICHAEL GRAU



UNIVERSITY OF MÜNSTER AND
UNIVERSITY HOSPITAL MÜNSTER;
PHILIPPS-UNIVERSITÄT MÄRBURG
MÜNSTER, GERMANY

ICPTTFN-XIX: Invite report
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MULTI-LAYER FILMS OF
POLYMERS AND
SEMICONDUCTOR
QUANTUM DOTS



PROF. YURIY KHALAVKA



YURIY FEDKOVYCH CHERNIVTSI
NATIONAL UNIVERSITY
CHERNIVTSI, UKRAINE

ICPTTFN-XIX: Invite report
October 9-14, 2023

PHOTOVOLTAICS
FROM 2D MoS₂



DR. MATTHEW ESCARRA



TULANE UNIVERSITY
NEW ORLEANS, LA, U.S.

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October 9-14, 2023

TERAHERTZ SPECTROSCOPY
AS A WINDOW INTO
ULTRAFAST PHOTOCURRENTS
AND TRANSIENT
PHOTOCONDUCTIVITY IN 2D
SEMICONDUCTORS



DR. LYUBOV TITOVA



WORCESTER POLYTECHNIC INSTITUTE
WORCESTER, MA, U.S.

ICPTTFN-XIX: Invite report
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FEASIBILITY OF HIGH
PERFORMANCE IN AI_{1-x}B_{1+x}VI
AND A_{1-x}B_{1+x}VI NANO-AND
POLYCRYSTALLINE FILMS FOR
THERMOELECTRIC DEVICE
APPLICATIONS



PROF. ZINOVI DASHEVSKY



BEN-GURION UNIVERSITY OF THE NEGEV
BEER SHEVA, ISRAEL

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ELECTRONIC AND CHEMICAL
SURFACE PROPERTIES OF
Bi₂Se₃-yS_y,
Bi_{1.993}Cr_{0.007}Se₃
AND Bi₂MnSe₄
COMPOUNDS



PROF. SANDRA GARDONIO



UNIVERSITY OF NOVA GORICA
NOVA GORICA, SLOVENIJA

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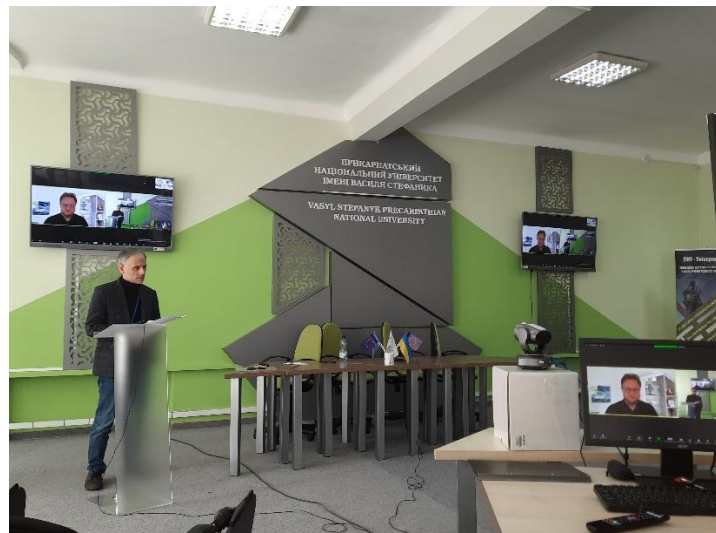
TRANSIENT
PHOTOCONDUCTIVITY STUDY
OF MULTILAYERED RANDOM
NETWORKS OF 2D MATERIAL
FLAKES CASTED FROM
SOLUTION



PROF. EGON PAVLICA



UNIVERSITY OF NOVA GORICA
NOVA GORICA, SLOVENIJA



HISTORY:

Professor Dmytro Freik, Conference Initiator,
Opening Ceremony of ICPTTFN-X:



ICPTTFN: Moments...

2021:



2019:



1982:



1990:



2005:



2007:



2011:



2013:

