

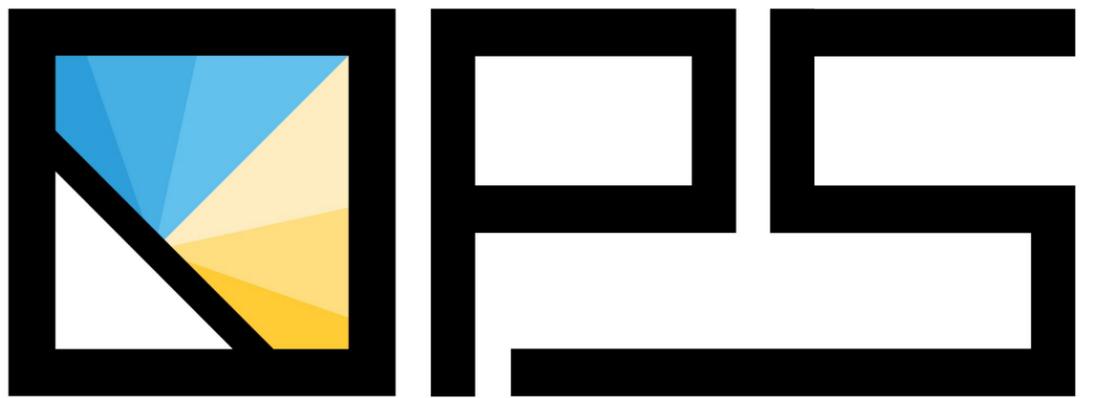
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Visit us on:
www.photonics-ua.org

Contact us:
info@photonics-ua.org



Ukrainian Optical and Photonic Society



Core Values

- Transparency and reputation
- Competence and qualification
- Breakthrough science and impactful research
- Supporting young professionals and leaders
- Love for Ukraine has no borders
- Innovation and interdisciplinarity
- Flexibility and self-development

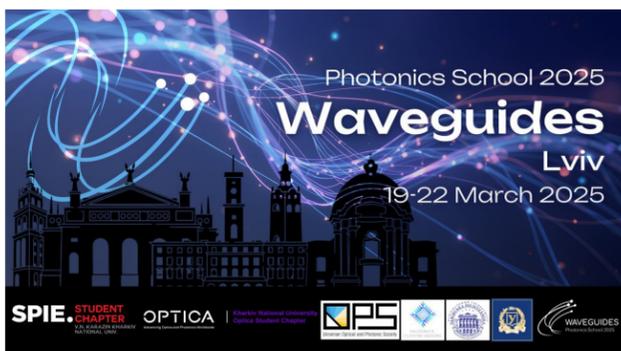
Welcome to the Ukrainian Optical and Photonic Society!

We aim to unite researchers, students, educators and industry professionals in the fields of photonics and optics across Ukraine and beyond. Our primary mission is to serve as a central hub for the aggregation and dissemination of knowledge, ensuring that the latest advances in photonics are shared and accessible to all members of our community.

Whether you are a student just beginning your journey in photonics or an experienced professional, the Ukrainian Optical and Photonic Society provides you with the tools, connections, and information you need to succeed and contribute to the advancement of this cutting-edge field. Together, we are driving the future of photonics in Ukraine and beyond.

Photonics School 2025 "Waveguides" in Lviv

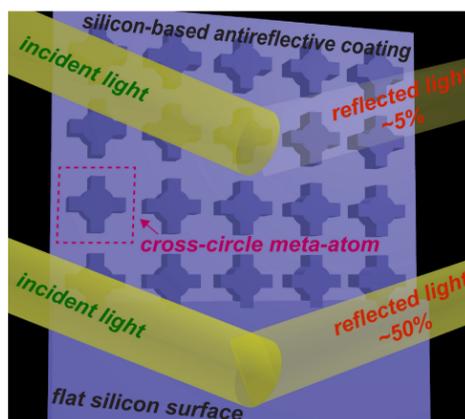
#Events



[Read on p. 2](#)

First journal article with acknowledgement to our Society

#Achievements



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Popular Lecture on Photonics 2025 in Kyiv

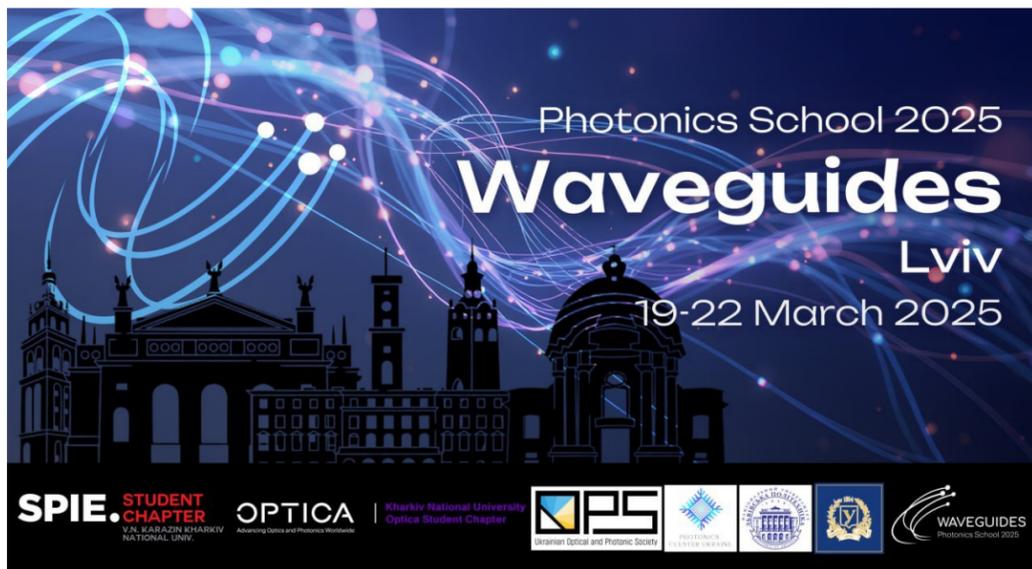
#Activity



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Photonics School 2025 “Waveguides” in Lviv

#Events



The second edition of Photonics School was held at Lviv Polytechnic National University on 19–22 March and gathered 20 participants from five universities across Ukraine. The program combined online and in-person activities, including a special online lecture, five lectures, and five practical classes. The Local Organizing Committee was led by Prof. Iryna Yaremchuk.

The School covered a wide range of modern topics in photonics and waveguide theory, from optical and nanostructured fibers to photonic-crystal, metamaterial, and semiconductor waveguides, as well as metasurfaces and machine-learning approaches to waveguide design.

A key highlight of the School was the team-based research projects: participants, divided into four groups, conducted their own studies using the knowledge gained during the lectures and practical sessions. The program also included a poster session, informal discussions, and social activities, creating a dynamic and collaborative learning environment.



[Read more](#) on program, report, feedback and related news.

See more about the next edition on [page 4](#).

Nano Talks 2025

#Events



NanoTalks 2025, representing a series of short 10-minutes popular talks exploring modern applications of nanotechnology across various fields was held at the **House of Scientists** in Kyiv on **18 February 2025**.

It is our traditional annual event promoting the perspectives of nanostructures and nanotechnologies. This year, the event was co-organized with the **Scientific Meetings platform**.



The talks were developed and given by the members of the **Ukrainian Optical and Photonic Society** (available at YouTube):

1. Nanostructures for remote light collection

or *How to make nano-pizza on fibers* [link](#)

Speaker: **Oleh Yermakov**

2. Nanostructures for integrated circuits

or *Electromagnetic surfing* [link](#)

Speaker: **Artem Hrinchenko**



3. Nanostructures for chiral biosensing

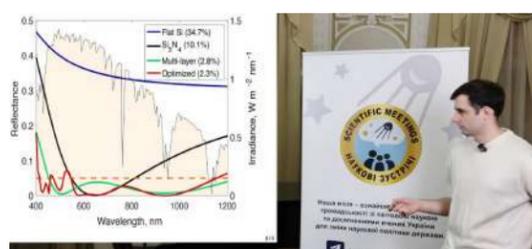
or *Separation of "drugs" and "poisons" consisting of the same molecules* [link](#)

Speaker: **Oleh Demianyk**

4. Nanostructures for photovoltaics

or *Increasing the efficiency of solar cells not looking inside them* [link](#)

Speaker: **Anton Ovcharenko**



Optical Biosensing Workshop 2025

#Events



Optical Biosensing Workshop 2025 is a one-day event consisting of six invited lectures, a pitch-talk session for young scientists and a subsequent scientific discussion, which was held at the **Kyiv School of Economics** on **25 April 2025**.

This event gathered the leading Ukrainian experts in the area of optical biosensing to highlight the most promising directions and to share their latest results and knowledge fostering new ideas and collaborations. In total, the event brought together 18 specialists from 7 Ukrainian universities and institutes.

The program of the event is available [here](#).

Visit to School “Basis” in Kyiv #Activity



On April 28, 2025, Oleh Yermakov and Anton Ovcharenko, co-founders of the Ukrainian Optical and Photonic Society, visited **School “Basis”** in Kyiv, where they delivered lectures on recent advances in optics and photonics.

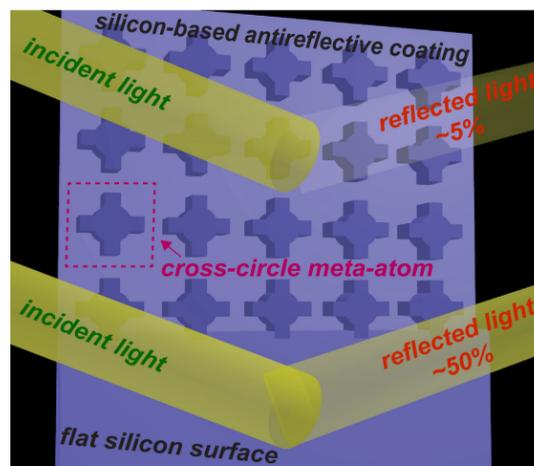
High-school student **Tymofii Shudra**, who conducts research under the supervision of Oleh Yermakov, also presented his work, recently awarded at two international conferences for young scientists and published in a peer-reviewed journal.

During the visit, we emphasized the Society’s commitment to mentoring highly motivated high-school students and supporting the next generation of specialists, highlighting Tymofii’s work as a notable success story.

First journal article with acknowledgement to our Society #Achievements

On April 29, 2025, an [article](#) by Oleh Yermakov and Anton Ovcharenko, co-founders of the Ukrainian Optical and Photonic Society, was published in **Advanced Photonics Nexus**. This is the first scientific publication to officially acknowledge the Society’s support.

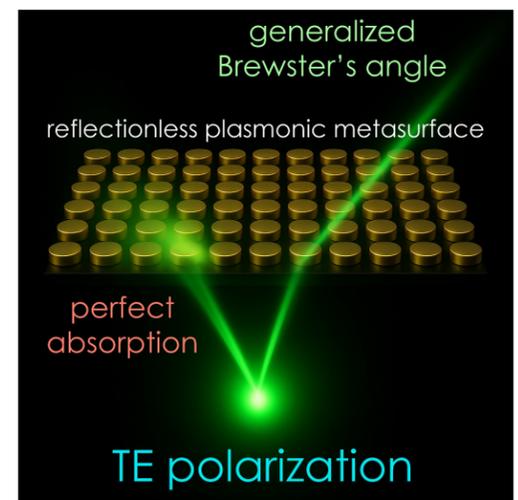
The work presents a machine-learning assisted design of an anti-reflective coating for solar cells. The proposed single-layer meta-structure demonstrates significantly reduced reflection over a broad spectral and angular range, outperforming existing solutions. The results were also highlighted by **SPiE** in a dedicated [news](#) feature.



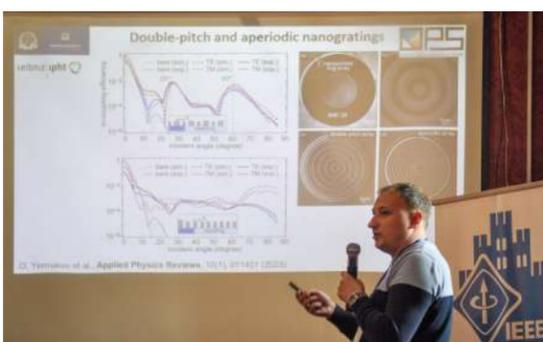
Highlighted journal article acknowledging our Society #Achievements

On November 17, 2025, the [article](#) of the young participants of the Ukrainian Optical and Photonic Society, was included in the **Editors’ Suggestion** and Highlights list of **Physical Review A**. The Editors’ Suggestion distinction is a marker of high quality that the editors award to only about 3% of articles they consider particularly important, interesting, and well-written.

The authors from Kyiv, Lviv, and Kharkiv are high school, undergraduate, and Ph.D. students, respectively. Mentoring high-school and undergraduate students is one of the core values of our Society.



Visit to Chernivtsi National University #Activity



From May 14 to 17, **Oleh Yermakov** visited the Institute of Physical, Technical and Computer Sciences at **Yuriy Fedkovych Chernivtsi National University** (ChNU).

We explored the newly inaugurated student engineering space **“Spectrum”**, toured various laboratories and facilities within the **Department of Radio Engineering and Information Security** and connected with many prominent Ukrainian personalities.

Oleh delivered a plenary lecture at the international conference **PREDT 2025** dedicated to the 150th anniversary of ChNU.

The visit concluded with a hike to the summit of Stijok Mountain, where we enjoyed a team-building session featuring informal discussions in a scenic setting.



Yuriy Fedkovych Chernivtsi National University has been and remains one of the key centers for optics and photonics in Ukraine.

Meeting with student union in Kharkiv #Activity

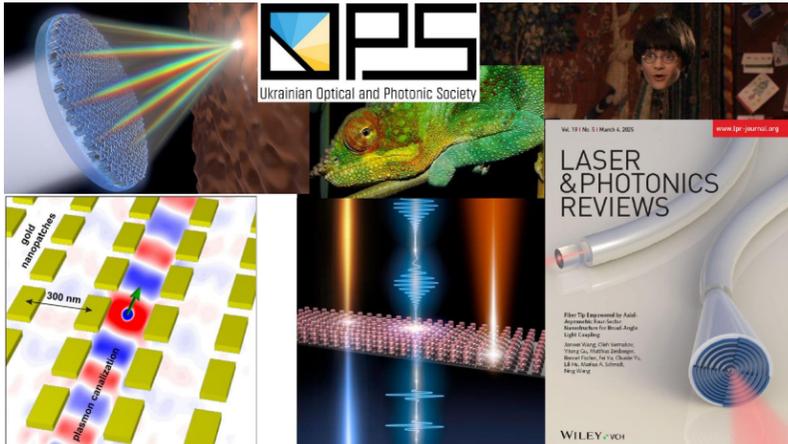
On December 18 2025, the Ukrainian Optical and Photonic Society held a meeting with the union of students **“Karazin Photonics”**, which combines Optica and SPiE student chapters of **V. N. Karazin Kharkiv National University**. During the meeting, we reviewed its achievements over the past five years, including a number of events, outreach activities, and members’ career progress.

To acknowledge the role of student chapters in strengthening and promoting optics and photonics in Ukraine, the Society established a new student distinction: **Distinguished Service Award**, honoring outstanding service to a student chapter.

Based on Karazin Photonics’ contributions, three students were selected as the first awardees: Liliia Manchenko, Anastasiia Guzenko, and Artem Hrinchenko.

Popular lecture on Photonics 2025

#Activity



We explored the fundamentals of photonics and some of the latest scientific breakthroughs of 2024-2025: we "surf" on electromagnetic waves, learned how to distinguish between identical-looking molecules of poison and drug, and created photonic "recipes" — light-matter cocktails and nano-pizza.



The popular lecture, "Photonics: From Fundamentals to Latest Discoveries 2025", organized by Real Science and delivered by Oleh Yermakov took place at the atmospheric venue **MODI Art&Wine Gallery** on 3 May 2025. The videorecording is available on YouTube [link](#).

#Announcements

Photonics School 2026 "Meta-Antennas" in Chernivtsi



The scientific school aims to promote the modern trends in optics and photonics through the series of the invited lectures and practical classes. The special theme for this edition is "**Meta-Antennas**".

The specific topics of lectures and practical classes include the general theory of antennas, microwave metasurfaces for antennas applications, dielectric nanophotonics, Huygens' metasurfaces, vortex beam generation.

The speakers include the leading Ukrainian and international experts. The event is supported by the Optica society.

Follow more details on our [website](#)

Ukrainian Bachelor, Master, PhD students and young scientists are welcome to apply. The number of available places is limited to **30 participants**.

Successful completion of the School will be confirmed by the certificates. Applicants are encouraged (optionally) to present their research results in a poster format, **the best posters will be awarded**.

The format of participation is **offline**.

The working languages are Ukrainian and English.

Venue is Yuriy Fedkovych Chernivtsi National University.

Dates: 5-9 May 2026.

The registration form is [here](#)

The **registration deadline** is April, 20.

The full list of participants will be announced on April, 27.

The **travel grants** are available for the participants out of Chernivtsi. The registration for the travel grant deadline is April, 5. The results will be announced on April, 13.

Join us

On June 15, 2025, the **Ukrainian Optical and Photonic Society** officially launched its membership program, which will remain **free of charge until 31 December 2026**. Welcome to join us by filling the following [application form](#).

		Ukrainian Optical and Photonic Society	
Member:		Name	#####
Membership №:		Valid until:	31 December 2026