



Meta-Antennas

Photonics School 2026

Chernivtsi | 5-9 May 2026

Мета-Антени

Школа з фотоніки 2026

Чернівці | 5-9 травня

OPTICA
Advancing Optics and Photonics Worldwide

Kharkiv National University
Optica Student Chapter

OPS
Ukrainian Optical and Photonic Society

ЧНУ
ЧЕРНІВЕЦЬКИЙ
НАЦІОНАЛЬНИЙ
УНІВЕРСИТЕТ
ІМЕНІ ЮРІЯ ФЕДЬКОВИЧА



**META
ANTENNAS**
Photonics School 2026



DAY 01

05.05 (tu)



09:00 - 09:30
Registration of
participants



09:30 - 10:00
Opening ceremony



10:00 - 10:45
Introduction to
photonics and
metamaterials
Anton Ovcharenko



10:45 - 11:00
Group photo



11:00 - 11:40
Coffee break



11:40 - 13:00
Fundamentals of
antenna theory and
their applications in
modern
communications
Dmytro Vovchuk



13:00 - 14:00
Lunch



14:00 - 15:00
University excursion



15:30 - 18:00
Social leisure

DAY 02

06.05 (we)



09:30 - 10:50
Introduction to
metasurfaces
Anton Ovcharenko



10:50 - 11:30
Coffee break



11:30 - 12:50
Metasurface
antennas: principles,
modeling, and design
procedures for
wavefront engineering
Enrica Martini



13:00 - 14:00
Lunch



14:00 - 16:00
Designing and
optimizing basic
antennas
Mykola Khobzei



16:30 - 18:00
Poster session



18:00 - 19:00
Scientific discussions

DAY 03

07.05 (th)



09:30 - 10:50
Vortex beam and
orbital angular
momentum generation
with antennas
Vladimir Tuz



10:50 - 11:30
Coffee break



11:30 - 12:50
Electromagnetic
scattering control in
spatially and
temporally modulated
structured
environments using
genetic algorithms
and machine learning
Dmytro Vovchuk



13:00 - 14:00
Lunch



14:00 - 16:00
Modern methods
and technologies of
antenna fabrication
Vladyslav Tkach



16:00 - 17:00
Free time



17:30 - 19:00
City excursion

DAY 04

08.05 (fr)



09:30 - 10:50
All-dielectric nanophotonics
Vladimir Tuz



10:50 - 11:30
Coffee break



11:30 - 13:00
Multipole decomposition of
dielectric scatterers
Vladimir Tuz



13:00 - 14:00
Lunch



14:00 - 15:30
Huygens' metasurfaces
Oleh Demianyk



15:40 - 17:00
Distribution by scientific
projects



17:00 - 17:40
Coffee break



17:40 - 19:00
Distribution by scientific
projects

DAY 05

09.05 (sa)



09:00 - 11:00
Research work in scientific
groups



11:00 - 11:40
Coffee break



11:40 - 13:00
Research work in scientific
groups



13:00 - 14:00
Lunch



14:00 - 16:20
Scientific projects reports



16:20 - 17:00
Coffee break



17:00 - 18:00
Closing ceremony

Day 1

2 Kotsiubynskoho Str., Chernivtsi, Yuriy Fedkovych Chernivtsi National University, Building 5, Red Hall

Days 2-4

101 Storozhynetska St., Chernivtsi, Institute of Physical, Technical and Computer Sciences, Yuriy Fedkovych Chernivtsi National University: Building 8A, Room 101 (Lectures) and Building 9, Room B10 (Practical Classes).

Day 5

2 Kotsiubynskoho Str., Chernivtsi, Yuriy Fedkovych Chernivtsi National University, Building 5, Red Hall

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LECTURERS:



Enrica Martini

University of
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Anton Ovcharenko

Ukrainian Optical and
Photonic Society,
Ukraine

General Co-Chairs

(Ukrainian Optical and Photonic Society):

- Anton Ovcharenko
- Oleh Yermakov, also Leibniz Institute of Photonic Technology, Germany

Main sponsors:

- Optica
- Ukrainian Optical and Photonic Society



General Organizing Committee

(Ukrainian Optical and Photonic Society):

- Oleh Demianyuk, also V. N. Karazin Kharkiv National University
- Vladyslav Huz, also V. N. Karazin Kharkiv National University
- Artem Hrinchenko, also V. N. Karazin Kharkiv National University
- Iryna Ludchak

Local organizing committee

(Yuriy Fedkovych Chernivtsi National University):

- Andrii Samila (co-chair),
- Mykola Khobzei (co-chair),
- Vladyslav Tkach
- Oleh Krulikovskyi
- Nataliia Muzdebaieva
- Taras Kazemirskyi

Sponsors:

- Student Society "Karazin Photonics" (SPIE and Optica student chapters)
- Yuriy Fedkovych Chernivtsi National University
- Department of Radio Engineering and Information Security