

Saint Petersburg OPEN 2026

26-29
May
2026



Venue:

НИУ ВШЭ – Санкт-Петербург (Канатный цех, станция метро «Горный институт»)
St. Petersburg, Vasilievsky Ostrov, 25-th Liniya, Building 6, Block 1

HSE University – St. Petersburg (“Gornyy Institut” metro station)

Conference program (preliminary)

26 May 2026 (Tuesday)

All day **Arrival, free time**

27 May 2026 (Wednesday)

09:00 - 10:00 **Registration of participants (on site)**

10:00 - 10:10 **Opening remarks Alexey Zhukov** (*HSE – St. Petersburg*)

10:10 - 10:40 **Multilevel tuning of single-walled carbon nanotubes for their applications in optoelectronics Albert Nasibulin** (*Skoltech*)

10:40 - 11:10 **Photovoltaic laser power converters Maxim Shvarts** (*Ioffe Institute*)

11:10 - 11:40 **Anisotropic semiconductor nanocrystals and their light-emitting devices Fangze Liu** (*Beijing Institute of Technology, P.R. China*)

11:40 - 12:00 **Coffee**

12:00 - 12:30 **Perovskite polariton laser diode Anatoly Pushkarev** (*Skoltech*)

12:30 - 13:00 **III-Nitride microlasers (preliminary) Natalia Kryzhanovskaya** (*HSE – St. Petersburg*)

13:00 - 13:30 **Elevator session I** (Young scientists present the main idea of their posters in a 1-minute presentation using 1-2 slides)

13:30 - 15:00 **Lunch**

Optional: 14:00 - 15:00 **Round table “WGM microlasers for the ultraviolet and visible spectral ranges on silicon and sapphire substrates”** *based on the materials of a joint study within the framework of the HSE Academic Cooperation project of the International Laboratory of Quantum Optoelectronics of the HSE St. Petersburg*

and the research team of the Wide-Gap Nano- and Microelectronics Center of the B.I. Stepanov Institute of Physics of the National Academy of Sciences of Belarus.

15:00 - 16:30 **Poster session I**

1. Semiconductor lasers, solar cells, and other optoelectronic devices
2. Electrical, magnetic, and microwave devices and properties of semiconductor materials and structures
3. Synthesis and structural properties of semiconductor materials and nanostructures

16:30 - 17:00 **Coffee**

17:00 - 18:00 **Poster session I** (continued)

28 May 2026 (Thursday)

09:00 - 10:00 **Registration of participants (on site)**

10:00 - 10:30 **Photonic integrated circuits: status and prospects** Alexey Ustinov (ETU "LETI")

10:30 - 11:00 **Superconducting single-photon detector is a key element of quantum photonic integrated circuits** Grigory Goltsman (MPGU / HSE University)

11:00 - 11:30 **Topological insulators (preliminary)** Dmitry Khokhlov (MSU / Lebedev institute)

11:30 - 12:00 **Coffee**

12:00 - 12:30 **Coherent fiber-optic systems: from global telecommunications to medical diagnostics** Nikolay Ushakov (Peter the Great University)

12:30 - 13:00 **Synthesis and application of nanowiskers (preliminary)** Alexey Bolshakov (MPhTI)

13:00 - 13:30 **Elevator session II** (Young scientists present the main idea of their posters in a 1-minute presentation using 1-2 slides)

13:30 - 15:00 **Lunch**

15:00 - 16.30 **Poster session II**

4. Nanophotonics, spectroscopy, microresonators, optical properties, plasmonics
5. Biomedical applications of semiconductor materials and devices, biophysics, nanobiotechnology, biophotonics
6. Other aspects of semiconductor nanotechnology

16:30 - 17:00 **Coffee**

17:00 - 18:00 **Poster session II** (continued)

18:00 - 18:30 **Closing remarks and awarding ceremony** Alexey Zhukov (HSE – St. Petersburg)

29 May 2026 (Friday)

All day **Departure, free time**

Optional: Guided tour of the International Laboratory of Quantum Optoelectronics (12.00-14.00)