

Conference schedule:

April 3, 2018

- 09:00 – 10:00 **On-site registration**
- 10:00 – 10.10 **Opening ceremony**
Nobel Prize Laureate in Physics, academician Zhores Alferov
- 10:10 – 10:40 **On-chip Quantum Optics enabled by Nano-Photonic Phenomena**
Maurice Skolnick (University of Sheffield, UK)
- 10:40 – 11:10 **Stability of semiconductor laser optical frequency combs**
Stefan Breuer (Technische Universität Darmstadt, Germany)
- 11:10 – 11:40 **III-V quantum dot materials and lasers monolithically grown on silicon platform**
Huiyun Liu (University College London, UK)
- 11:40 – 12:00 **Coffee break**
- 12:00 – 12:30 **Interacting Rydberg Excitons in Cuprous Oxide**
Manfred Bayer (Technische Universität Dortmund Germany)
- 12:30 – 14:00 **Elevator speech session I**
Authors explain key idea of their posters in 1 minute using 1-2 slides
- 14:00 – 15:30 **Dinner**
- 15:30 – 18:00 **Poster Session**
- *Crystal growth and structural properties of semiconductor materials and nanostructures*
 - *Lasers, solar cells and other optoelectronic devices*
 - *Other Aspects of Nanotechnology*
- 18:00 – 19:00 **Guided lab tour at St Petersburg Academic University**

Conference schedule:

April 4, 2018

- 09:00 – 10:00 **On-site registration**
- 10:00 – 10.30 **Ultrafast Nanomechanics in Vertical Cavity Surface-Emitting Lasers**
Andrey Akimov (University of Nottingham, UK)
- 10:30 – 11:00 **Molecular beam epitaxy in Russia Results and prospects**
Victor Chalii (JSC "Svetlana Growth", Russia)
- 11:00 – 11:30 **Nanoscale Perforation of Graphene Oxide during Photoreduction Process in the Argon Atmosphere**
Artur Dideikin (Ioffe Institute, Russia)
- 11:30 – 12:00 **Wire Metamaterials: Physics and Applications**
Pavel Belov (ITMO University, Russia)
- 12:00 – 12:20 **Coffee break**
- 12:20 – 12:50 **Mechanisms of selection and transport of heavier d-elements by the living cells**
Alexey Skvortsov (Peter the Great St. Petersburg Polytechnic University, Russia)
- 12:50 – 14:00 **Elevator speech session II**
Authors explain key idea of their posters in 1 minute using 1-2 slides
- 14:00 – 15:30 **Dinner**
- 15:30 – 18:00 **Poster Session**
- *Nanobiotechnology, Biophysics and Biophotonics*
 - *Spintronics, Electro- and Magneto-optics*
 - *Nanophotonics, Spectroscopy, Microcavities, Optics, Plasmonics*
 - *Electric, Magnetic and Microwave Devices*
- 18:00 – 18:30 **Closing remarks and Award Ceremony**



5th International School and Conference
«Saint Petersburg OPEN 2018»
Saint Petersburg, April 2-5, 2018

Dear colleagues!

On behalf of academician **Zhores Alferov**, Nobel Prize Laureate in Physics (2000), the chairman of the **5th International School and Conference on Optoelectronics, Photonics, Engineering and Nanostructures “Saint Petersburg OPEN 2018”**- we welcome You in Saint Petersburg!

The School and Conference is held on **April 2-5, 2018** at St Petersburg Academic University. School and Conference includes a series of invited talks by leading scientists with the aim to introduce young scientists with actual problems and major advances in physics and technology. In the afternoon, poster session will be held in which young scientists, undergraduate and graduate students will present their work.

The School and Conference is hosted by *St Petersburg Academic University* in cooperation with *Peter the Great St. Petersburg Polytechnic University* and held with partial financial support from *Russian Foundation for Basic Research (#18-32-10009)*, *Russian Science Foundation* and by the *International Society for Optics and Photonics (SPIE)*. It is a continuation of the annual school-seminars for youth on topical problems of physics and technology that has been organizing by the Academic University since 2009.



Canteen of the Polytechnic University
(Polytechnicheskaya Str 29, k4)

Two cafes are located on the first floor of the Academic University

Device for simultaneous translation should be returned!