

**International Nano-Optoelectronics Workshop 2014
(i-NOW 2014)**

Luga and St. Petersburg, Russia

10-22 August 2014

Organized jointly by St. Petersburg Academic University, St. Petersburg University of Information Technologies, Mechanics and Optics, EU Marie Curie Initial Training Network “NANOEMBRACE” and IRSES project “FUNPROB” and CRC 787 Nanophotonics and School of Nanophotonics of DFG

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Academic University

St. Petersburg

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Russia

OBJECTIVES

The physics of nanoscale materials and the devices based on them has now become an important area for research and development in both academic and industry laboratories. The iNOW 2014 workshop will engage participants in considerations of state-of-the-art nanoscale semiconductor processing and synthesis, the new physics of tailoring material's optical and electrical properties, new advances in characterization techniques, and new devices with novel functionalities.

Similar to previous iNOWs, the workshop features tutorial-style talks, poster sessions for students, rump sessions and ample time in beautiful surroundings of St. Petersburg and its region.

This time, the last working days of iNOW will be combined with the special event - the Nobel Price Meeting, where all participants will have an opportunity to attend the Nobel lectures related to our field.

The iNOW 2014 workshop will be organized in two locations: Mansion "Burevestnik" in the wonderful countryside of Luga, 150 km to the south of St. Petersburg, and in St. Petersburg Academic University. There will be several social events such as barbeque parties at the lake shore in Luga, St. Petersburg city tour, boat trip, and excursions to famous sites in St. Petersburg including its world-class museums.

The workshop promises ample opportunities for interaction, inspiring presentations, exciting discussions, and invigorating debates. We hope your experiences here will stimulate future collaborations and spark future breakthroughs.

DURATION

18:00, Sunday, August 10 to 24.00 Friday August 22, 2014

DEADLINES

12.05.2014	Registration on-line
12.05.2014	Registration fee wired to Alferov Foundation
09.06.2014	Abstract Submission

VENUE

10.08-16.08	Mansion "Burevestnik", Luga, St. Petersburg Region
16.08 14.00 PM	Transport to St. Petersburg
17.08-22.08	Academic University, St. Petersburg, Russia

ACCOMMODATION

10.08-16.08	Mansion "Burevestnik", Luga, St. Petersburg Region
Students 16.08-23.08	Dormitory of St. Petersburg Academic University (room sharing)
Invited speakers 16.08-23.08	Hotel "St. Petersburg", St. Petersburg City Centre, Metro "Ploshad Lenina", Accompanying guests will share standard rooms

TECHNICAL TOPICS

Growth of Nanostructures
Quantum Dots and Nanowires
Photonic Crystals
Spintronics
Plasmonics and Left-handed Materials
Quantum Well, Quantum Dot and Quantum Cascade Lasers
Nanolasers
Solar Cells
Widegap Materials and Devices
Integrated Photonic Circuits
High-speed Lasers and Detectors
Applications and Systems
Photonic Devices for Life Sciences and Environment

EXCURSION TRIPS

Details to be provided

SPONSORS

Russian Foundation of Basic Research
Alferov Foundation
St. Petersburg Academic University
St. Petersburg University of Information Technologies, Mechanics and Optics
EU Marie Curie ITN “NANOEMBRACE”
CRC 787 Nanophotonics and School of Nanophotonics of DFG

STEERING COMMITTEE

Zhores Alferov, St. Petersburg Academic University
Markus Amann, Technical University of München
Yasuhiko Arakawa, University of Tokyo
Dieter Bimberg, Technical University of Berlin
Connie Chang-Hasnain, UC Berkeley (ex-officio)
Zhangyuan Chen, Peking University
Vladimir Dubrovskii, St. Petersburg Academic University (ex-officio)
Alfred Forchel, University Würzburg
Yi Luo, Tsinghua University
Fumio Koyama, Tokyo Institute of Technology
Abderrahim Ramdane, LPN CNRS
Guillaume Huyet, Tyndall National Institute

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CONFIRMED INVITED SPEAKERS AND TOPICS

Zhores Alferov, Academic University St. Petersburg, RAS

Markus Amann, TU Munich
(Semiconductor lasers for near- and far-infrared sensing and spectroscopy)

Yasuhiro Arakawa, University of Tokyo
(Recent advances in quantum dot lasers: Silicon photonics application, commercialization, and single dot lasers)

Uwe Bandelow, WIAS Berlin
(Dynamics of optical fields in semiconductor lasers)

Pallab Bhattacharya, University of Michigan
(Solid State Polariton Lasers)

Dieter Bimberg, TU Berlin
(Quantum dots)

Connie Chang-Hasnain, UC Berkeley
(On Near-Wavelength Optics)

Zhangyuan Chen, Beijing University
(Key Technologies for Elastic Optical Networks)

Vladimir Dubrovskii, Academic University St. Petersburg, RAS
(Modeling of nanostructure growth)

Ken Durose, University of Liverpool
(Title to be provided)

Alfred Forchel, University of Würzburg
(Interband Cascade lasers for the 3 to 5 μm range)

Gadi Eisenstein, RBNI
(Title to be provided)

Andrew Gallant, Durham University
(Terahertz generation and detection: what is the state-of-the art?)

Evelyne Gil, Pascal Institut
(Title to be provided)

Bernard Gil, University Montpellier 2
(Title to be provided)

Frank Glas, LPN CNRS
(Nanoscale effects in nanowire formation)

Bruno Grandidier, IEMN, Département ISEN
(Surface science of semiconductor nanowires)

Nicolas Grandjean, Institute of Condensed Matter Physics, Lausanne
(GaN based nanostructures: from physics to applications)

Hao-Chung Kuo, Chiao-Tung University
(Title to be provided)

James Harris, Stanford University
(Foundations of Photonics: Epitaxy and Heterojunctions)

Werner Hofmann , TU Berlin
(Advanced VCSEL structure)

Yidong Huang, Tsinghua University
(Optomechanical Cavity based on Nanostructure)

Guillaume Huyet, Tyndall National Institute
(Title to be provided)

Eugene Ivchenko, Ioffe Institut St. Petersburg, RAS
(Topological states in resonant photonic crystals)

Jonas Johansson, Lund University
(Polytypism in III-V nanowires and its implications for optical properties)

Martin Kamp, University of Würzburg
(Title to be provided)

Eli Kapon, Swiss Federal Institute of Technology Lausanne
(Quantum Dot and Quantum Wires Systems for Nanophotonics)

Fumio Koyama, Tokyo Institute of Technology
(High speed modulation and new functions of transverse coupled cavity VCSELs)

Pei-Cheng Ku, University of Michigan
(Gallium nitride nanostructures)

Yong-Hee Lee, KAIST Seoul
(Microcavity)

Karl Leo, TU Dresden
(Title to be provided)

Yi Luo, Tsinghua University
(Key issue for solid state lighting)

Tobias Nowozin, TU Berlin
(Quantum dot-based memories)

Abderrahim Ramdane, LPN CNRS
(Title to be provided)

Stephan Reitzenstein, TU Berlin
(Deterministic nanofabrication technologies for the realization of efficient quantum light sources)

Dan Ritter, Israel Institute of Technology
(Title to be provided)

David D. Sampson, University of Western Australia
(Title to be provided)

Changzheng Sun Tsinghua University
(Integrated Photonic Devices for Fiber Communications and Microwave Photonics)

MariaTchernycheva, Paris Sud
(Title to be provided)

Victor Ustinov, Ioffe Institut St. Petersburg, RAS
(VCSELs)

Evgeniy Viktorov, Free University of Brussels
(QD laser timescales)

Ming Wu, UC Berkeley
(Nanophotonic LEDs and phototransistors for energy efficient interconnect)

Chih-Chung Yang, National Taiwan University
(Development of Nitride Nanorod Light-emitting Diode Array)

Dagou Zeze, Durham University
(Title to be provided)

Alexey Zhukov, Academic University St. Petersburg, RAS
(Quantum dot microring lasers)

Alan Willner, University of Southern California

Maciej Wojtkowski, Nicolaus Copernicus University, Torun, Poland

Fees (in EURO)

Before 12.05.14 After 12.05.14

REGISTRATION FEE

- Including all technical sessions, breaks, meals, tours, local excursion trips and one set of conference proceedings.

Regular: Second week only in St. Petersburg 300 EURO 400 EURO

SYMPOSIUM FEE

- **All included in *Registration fee plus lodging***

Students or Post-docs: Full duration only 1500 EURO 1700 EURO

- Including flight from St. Petersburg to Frankfurt
- Lodging is in shared twin- or triple- room for students and Post-docs.

Regular:

One day entrance 250 EURO 270 EURO

First week in Luga 1000 EURO 1100 EURO

Second week in St. Petersburg 1000 EURO 1100 EURO

- Lodging is in a single room for regular attendees.

ACCOMPANYING GUESTS OF INVITED SPEAKERS

The accompanying guests of invited speakers, who share the same standard room with the speakers, will need to pay for the meals, banquets and other expenses, as listed below. No accompanying guests will be accommodated for post-docs, regular attendees or students.

Price/person	Package includes	Sharing room w. Speaker	
		Adult	Child (under 18)
Luga	all meals, banquets, and excursion trips	350 EURO	200 EURO
St. Petersburg	all meals, banquets, and excursion trips	350 EURO	200 EURO
Full Duration	Including the above	700 EURO	400 EURO

Refund and Cancellation Policy: All requests for refunds must be received in writing by 01 July, 2014. A 150 EURO service charge will be assessed for processing refunds. All registrations received after 01 July, 2014, are NON-REFUNDABLE.

WIRING INFORMATION

Account holder: to be provided

Upon Completion of the wiring, please fax or e-mail the receipt to: to be provided

Best Poster Award

Best Student Posters will be selected among students presenting posters. The submission and selection rules are outlined below. Students are encouraged to submit posters.

POSTER AWARD SPONSORS

ITMO

RFBR

Alferov Foundation

AWARDS

The cash award is meant to be shared among all co-authors of the posters except the professors. Awardees presentation will be made at the Banquet.

- First place: € 700, certificates for each co-author
- Second place: € 500, certificates for each co-author
- Third place: € 300, certificates for each co-author

ABSTRACT

- Authors need to follow the format in the template (attached in Abstract and Biography Submission).
- Submission deadline: .

POSTER PRESENTATION

- All posters will be presented by students and post-docs.
- Format of posters is A0: 841 mm width x 1189 mm height.
- Each poster will be allocated a 3-minute slot for oral introduction
- Poster viewing times will be announced later.
- The co-authors should take turns to host their poster.

SELECTION PROCESS

- Posters will be judged based on research quality and poster presentation.
- An award committee will be invited to evaluate the posters