ITMO UNIVERSITY

META LAB

INTERNATIONAL SUMMER SCHOOL

NANOPHOTONICS AND METAMATERIALS

MAY 15 - 19, 2017

The Nanophotonics and Metamaterials Summer School is an annual international event where recognized experts from European, U.S. and Australian universities offer a series of lectures on photonics, topological insulators, optomechanics, plasmonics, imaging, sensing etc. PhD and Master's students as well as young researchers and people working in industry, or small and medium-sized enterprises are welcome to participate.

The School is organized by the Nanophotonics and Metamaterials laboratory (metalab.ifmo.ru) at ITMO University and supported by the Russian Science Foundation (rscf.ru) and the Virtual Institute "Metamorphose" (metamorphose-vi.org).

LECTURERS

- **Eli Kapon,** École Polytechnique Fédérale De Lausanne, Switzerland
  Quantum integrated photonics
- **Constantin Simovski,** Aalto University, Finland
  Microgap thermophotovoltaics systems for electricity generation: a new perspective
- **Tony Low,** University of Minnesota, USA
  Polaritons in layered two-dimensional materials
- **Isabelle Staude,** Friedrich-Schiller-University Jena,Germany
  Dielectric metasurfaces - fundamentals and applications
- **Ioanna Zergioti,** National Technical University of Athens, Greece
  Laser materials processing for flexible electronics
- **Yang Hao,** Queen Mary University of London, UK
  Applications of transformation optics in antenna and microwave engineering
- **Andrei Lavrinenko,** Technical University of Denmark, Denmark
  Hyperbolic Metamaterials in Sensing Applications
- **Andrey Sarychev,** Institute for theoretical and applied electrodynamics RAS, Russia
  Metal-dielectric resonances in optics and SERS biosensors
- **Almas Sadreev,** Kirensky institute of physics, Russia
  Bound states in the continuum in photonic crystals and microwave structures
- **Mikhail Glazov,** Ioffe physical-technical institute of RAS, Russia
  Rydberg excitons in cuprous oxide
- **Igor Nefedov,** Aalto University, Finlad
  Asymmetric hyperbolic metamaterials: EM waves absorption, directive thermal emission, and lateral-drag radiative forces
- **Mikhail Lapine**, University of Technology Sydney, Australia
  Nonlinear metamaterials and new degrees of freedom in metamaterial design

school.metalab.ifmo.ru

Travel grants will be offered to selected students after the applications have been processed.

VENUE

The school will be held in the center of St. Petersburg, in the beautiful historic palace - House of Eliseevs.

REGISTRATION FEE

The participation fee starting from 350 Euros covers tuition, lecture materials, accommodation and social events. Travel grants will be offered for selected students after consideration of requests.

Please register before April 16, 2017 at the School website: metalab.ifmo.ru/school/

CREDITS

3 ECTS will be awarded to the students who successfully complete all necessary assignments during the School.

POSTER SESSION

The participants will have a chance to present the results of their current scientific work during the poster session. The best posters will be awarded.

VISA

Please request a visa invitation letter at your earliest convenience.

school@metalab.ifmo.ru
school.metalab.ifmo.ru
+7-812-457-17-85