

**THE XXIV ANNUAL CONFERENCE  
SARATOV FALL MEETING 2020**

**VIII SYMPOSIUM ON OPTICS & BIOPHOTONICS  
AND  
XXIV INTERNATIONAL SCHOOL FOR JUNIOR  
SCIENTISTS AND STUDENTS ON OPTICS, LASER  
PHYSICS & BIOPHOTONICS**

**SEPTEMBER 29 – OCTOBER 2, 2019, SARATOV, RUSSIA**

**CO-LOCATED WITH CONFERENCE:**

**“TOWARDS OPTICAL AND MULTIMODALITY  
TRANSLATIONAL IMAGING”**

**SEPTEMBER 30- OCTOBER 2, 2019, SARATOV, RUSSIA**

***Organized by***

Saratov State University (National Research University of Russia) (SSU)

Research-Educational Institute of Optics and Biophotonics, SSU

International Research-Educational Center of Optical Technologies for Industry and Medicine “Photonics”, SSU

Institute of Biochemistry and Physiology of Plants and Microorganisms, RAS

Institute of Precision Mechanics and Control, RAS (IPMC RAS)

Saratov State Medical University named after V.I. Razumovsky

Volga Region Center of New Information Technologies, SSU

Tomsk State University (National Research University of Russia) (TSU)

ITMO University

Bauman Moscow State Technical University (BMSTU)

Institute of Solid State Physics of the RAS (ISSP RAS)

Prokhorov General Physics Institute of the RAS (GPI RAS)

Bach Institute of Biochemistry, Research Center of Biotechnology of the RAS

Sechenov First Moscow State Medical University (Sechenov University)

Institute of Ultra High Frequency Semiconductor Electronics of the RAS (IUHFSE RAS)

Biomedical Photonics Committee of Chinese Optical Society, China

SPIE Student Chapter of SSU

SPIE Student Chapter of BMSTU  
SPIE Student Chapter of ISSP RAS  
SPIE Student Chapter of Samara University  
OSA Student Chapter of SSU  
OSA Student Chapter of BMSTU

### ***In cooperation with***

Russian Society for Photobiology  
Saratov Science Center of the RAS  
Biophotonics.World - the worldwide consortium Biophotonics4Life  
EPIC – European Photonics Industry Consortium

### ***Co-sponsored by***

Ministry of Science and Higher Education of the Russian Federation  
Saratov State University  
RAS – Russian Academy of Sciences  
RFBR – Russian Foundation for Basic Research  
SPIE – The International Society for Optics and Photonics  
OSA – The International Optical Society  
IEEE – Institute of Electrical and Electronics Engineers  
Russian Technology Platform “The Medicine of the Future”  
Russian Technology Platform “Photonics”  
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**The main goal** of the Symposium is to present and discuss recent developments and applications of optical and laser technologies in medicine and biology, precise mechanics and control of tissues and cells, coherent optics of random and ordered media, material and environmental sciences, nonlinear dynamics of laser systems, laser physics, spectroscopy and molecular modeling, nanophotonics and nanobiophotonics.

Fundamental problems of photonics, quantum optics and ultrafast optical techniques will be discussed. The main attention will be paid to discussion of basic research of interactions of coherent, low-coherent, polarized, spatially- and temporally-modulated electromagnetic radiation within the broad wavelength range from x-rays to terahertz with inhomogeneous scattering media and biological tissues and cells. Elastic, inelastic (Raman, SERS and CARS) and dynamic light scattering, Doppler shift, photoacoustic, photothermal and nonlinear interactions, mechanical stresses, and

photobiological effects will be considered. On this basis, the variety of laser and optical technologies for medical diagnostics, therapy, surgery, and light dosimetry, as well as for diagnostics and imaging of random and ordered media will be presented. Studies on lasers, fibers, and microstructured waveguides will be discussed. Plasmonics and biosensing will be one of the key features of the meeting.

Official languages of the meeting are English and Russian.

### ***The Conference fee***

For foreign participants, the conference fee is \$200 (lunches, barbecue, Volga-river voyage, and light refreshments are included), may be paid during the Meeting or transferred to the account number for request.

For Russian participants the Conference fee will depend on financial support from sponsoring organizations.

### ***Lodging***

Western style mini-hotel Bohemia in the downtown

<http://www.bohemiahotel.ru>

Hotel "Slovakia" ashore the Volga river

<http://slovakia.all-hotels.ru/>

Hotel "Volga" in the downtown

<http://astoria-saratov.ru/en/hotels/volga/>

Hotel "Saratov" in the downtown

<http://astoria-saratov.ru/en/hotels/saratov/>

Hotel "Volna" ashore the Volga river

<http://volna64.ru/>

### ***Culture program***

Visits to Conservatoire, Theaters, and Museums, 2-hour Volga-tour.

### ***Visa application support***

To apply for visa to Russian Consulate you need an official invitation letter. The following information about you and accompany persons is needed:

1. Passport (valid up to six months after October 2, 2020)

number: \_\_\_\_\_

dates of issue: \_\_\_\_ and of expiry: \_\_\_\_\_ (copy of passport page with photo)

2. Date of birth: \_\_\_\_, place of birth: \_\_\_\_\_

3. Living address: \_\_\_\_\_

4. Working position: \_\_\_\_\_

5. Working address: \_\_\_\_\_

6. Name of town, where you are going to apply for visa (Russian consulate)

Please, send this information to general secretary of the SFM-20

Elina A. Genina: [eagenina@yandex.ru](mailto:eagenina@yandex.ru)

### **Proceedings**

Conference papers will be published as Conference Proceedings (in Russian and English) under the title "Optical Physics and Biophotonics", SPIE Proceedings (3 volumes), and in Russian and International peer-reviewed journals: *Journal of Biomedical Photonics & Engineering*, *Quantum Electronics (Russian/English)*, *Optics and Spectroscopy (Russian/English)*, *Nonlinear Applied Physics (Russian/English)*, *Journal of Biomedical Optics*, *Optical Engineering*, *The European Physical Journal*.

All papers will be subjected to the normal refereeing process for the journals.

For special issue of *Quantum Electronics* manuscripts of papers should be submitted not later than **August 15, 2020**. For SPIE Proceedings and Book of manuscripts "Optical Physics and Biophotonics" – not later than **October 31, 2020**.

## **Journal of Biomedical Optics**

### **Advances in Terahertz Biomedical Science and Applications**

<https://www.spiedigitallibrary.org/journals/journal-of-biomedical-optics/call-for-papers#navBarAnchor>

Submission Deadline **31 October 2020**

[Submit a Manuscript](#)

[Author Guidelines](#)

Guest Editors

#### **Kirill I. Zaytsev**

Prokhorov General Physics Inst., Russian Academy of Sciences,  
and Bauman Moscow State Technical Univ., Russia

E-mail: [kirzay@gmail.com](mailto:kirzay@gmail.com)

#### **Vladimir N. Kurlov**

Inst. of Solid State Physics, Russian Academy of Sciences

E-mail: [kurlov@issp.ac.ru](mailto:kurlov@issp.ac.ru)

#### **Maksim Skorobogatiy**

Dept. of Engineering Physics, Polytechnique Montreal, Canada  
E-mail: [maksim.skorobogatiy@polymtl.ca](mailto:maksim.skorobogatiy@polymtl.ca)

**Igor V. Reshetov**

Sechenov First Moscow State Medical Univ., Russia,  
and Academy of Postgraduate Education FSCC, FMBA, Russia  
E-mail: [reshetoviv@mail.ru](mailto:reshetoviv@mail.ru)

**Valery V. Tuchin**

Saratov State Univ. and Tomsk State Univ., Russia,  
and Inst. of Precision Mechanics and Control, Russian Academy of Sciences  
E-mail: [tuchinvv@mail.ru](mailto:tuchinvv@mail.ru)

## **Optical Engineering**

### **Advances in Terahertz and Infrared Optoelectronics**

<https://www.spiedigitallibrary.org/journals/optical-engineering/call-for-papers#navBarAnchor>

**Manuscripts due 31 October 2020.**

[Submit a Manuscript](#)

[Author Guidelines](#)

Guest Editors

**Irina N. Dolganova**

Institute of Solid State Physics of the Russian Academy of Sciences, Russia  
Bauman Moscow State Technical University, Russia  
[in.dolganova@gmail.com](mailto:in.dolganova@gmail.com)

**Dmitry S. Ponomarev**

Institute of Ultra-High-Frequency Semiconductor Electronics of the Russian  
Academy of Sciences, Russia  
[ponomarev\\_dmitr@mail.ru](mailto:ponomarev_dmitr@mail.ru)

**Igor E. Spector**

Prokhorov General Physics Institute of the Russian Academy of Sciences,  
Russia  
[igor.spector@yandex.ru](mailto:igor.spector@yandex.ru)



**Peter S. Timashev**

Institute for Regenerative Medicine, Sechenov University, Russia  
[timashev.peter@gmail.com](mailto:timashev.peter@gmail.com)

**Michael S. Shur**

Rensselaer Polytechnic Institute  
Troy, New York, USA  
[shurm@rpi.edu](mailto:shurm@rpi.edu)

**Valery V. Tuchin**

Saratov State University, Russia  
Institute of Precision Mechanics and Control of the Russian Academy of Sciences, Russia  
[tuchinvv@mail.ru](mailto:tuchinvv@mail.ru)

**The European Physical Journal (EPJ)**

[EPJ ST Special Issue: Breakthrough optics- and complex systems-based technologies of modulation of drainage and clearing functions of the brain](https://epjst.epj.org/epjst-open-calls-for-papers)

<https://epjst.epj.org/epjst-open-calls-for-papers>

**Submission Deadline: September 30, 2020.**

A pdf of this Call for Papers can be downloaded [here](#)

We are looking forward to your contributions.

**Guest Editors:****Jürgen Kurths**

Physics Department, Humboldt University, Berlin, Germany  
Potsdam Institute for Climate Impact Research, Potsdam, Germany  
Saratov State University, Saratov, Russia  
E-mail: [juergen.kurths@pik-potsdam.de](mailto:juergen.kurths@pik-potsdam.de)

**Thomas Penzel**

Sleep Medicine Center, Charite University Hospital, Berlin, Germany  
Saratov State University, Saratov, Russia  
E-mail: [thomas.penzel@charite.de](mailto:thomas.penzel@charite.de)

**Valery V. Tuchin**

Saratov State University, Saratov, Russia  
Tomsk State University, Tomsk, Russia  
Institute of Precision Mechanics and Control of the RAS, Saratov, Russia  
Research Center of Biotechnology of the RAS, Moscow, Russia  
E-mail: [tuchinvv@mail.ru](mailto:tuchinvv@mail.ru)

**Teemu Myllylä**

University of Oulu, Oulu, Finland

E-mail: [teemu.myllyla@oulu.fi](mailto:teemu.myllyla@oulu.fi)

**Ruikang (Ricky) K Wang**

University of Washington, Seattle

E-mail: [wangrk@uw.edu](mailto:wangrk@uw.edu)

**Oxana Semyachkina-Glushkovskaya**

Saratov State University, Saratov, Russia

E-mail: [glushkovskaya@mail.ru](mailto:glushkovskaya@mail.ru)