



THE VIII INTERNATIONAL SYMPOSIUM MODERN PROBLEMS OF LASER PHYSICS

Novosibirsk, Russia: 25-31 August, 2018

mplp2018.laser.nsc.ru

 **MPLP 2018**

Venue

The Symposium will take place in Akademgorodok – one of the largest scientific centers of Russia. It was founded in 1957 as a scientific center of the Siberian Branch of the USSR Academy of Sciences. Now Akademgorodok includes more than 30 research institutes in the fields of physics, mathematics, chemistry, biology, medicine, agriculture etc. Surrounded by forest and located on the bank of the Ob Sea, Akademgorodok is a fine recreation center. We hope you will enjoy your stay here!

Scientific Program

In accordance with the general tendency of previous MPLP Symposia, the main objective of MPLP-2018 is to present the frontiers of modern laser physics, optics and spectroscopy, as well as bring together scientists from all regions of the world to establish fruitful scientific collaboration at regional and global levels. It is planned to discuss the latest achievements and results aimed at the development and refinement of theoretical and experimental methods of laser physics, optics and spectroscopy. The Scientific Program of MPLP'2018 Symposium will include invited and oral talks selected from contributed papers, as well as contributed papers to be presented at several Poster Sessions. A Scientific School for Young Scientists will be also organized during the Symposium. Following the tradition of MPLP Symposia, the scientific program will comprise single sessions of invited and oral presentations for each topic, running sequentially (i.e. there will be no parallel sessions) and poster sessions.

Symposium topics:

1. *New trends in laser physics*
2. *High-resolution spectroscopy and atomic clocks*
3. *Physics of ultracold atoms, ions, and molecules*
4. *Atom interferometers, magnetometers and other quantum sensors*
5. *Quantum optics and quantum information*
6. *Ultrahigh laser fields and attoscience*
7. *Nonlinear optics and novel phenomena*
8. *Nano- and femto- photonics: Foundations and applications*
9. *Fiber optics and fiber lasers*
10. *Applications of laser radiation from THz to UV in biomedicine, technology and other fields*

Organized by

- Institute of Laser Physics, SB RAS, Novosibirsk, Russia
- Novosibirsk State University, Novosibirsk, Russia
- Institute of Spectroscopy, RAS, Troitsk, Russia

Symposium Chairman:

Academician Sergei N. Bagayev

MPLP 2018 Scientific Secretary

Dr.Sc. Oleg N. Prudnikov

MPLP 2018 contacts

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