



The XVII International Feofilov Symposium on Spectroscopy of Crystals Doped with Rare Earth and Transition Metal Ions

September 23–28, 2018
Ekaterinburg, Russia



Call for Abstracts

Dear colleagues,

It is a pleasure and an honor to invite you to the XVII International Feofilov Symposium (IFS2018) on Spectroscopy of Crystals Doped with Rare Earth and Transition Metal Ions which will be organized in Ekaterinburg (Russia) from 23th to 28th September 2018. The venue of IFS2018 is Ekaterinburg in the Middle Urals, at the crossroads of Europe and Asia. Being in the focus of the Russian conceptual art with a fascinating historical subtext, Russia's fourth city has plenty of culture and urban romanticism to offer. One can find in the unofficial capital of the Urals over 600 historical and cultural monuments, stone and wooden buildings of the past centuries, iconic pieces of constructivist architecture, and the world's most Northern skyscrapers.

While many scientific disciplines rely on spectroscopy in condensed matter physics, covering inter alia fields like laser and light technologies, radiation dosimetry, electrochemical engineering, materials science, **Ural Federal University, Mikheev Institute of Metal Physics UB RAS, and the Ural Branch of the Russian Academy of Sciences** continue a series of International Feofilov Symposia started in 1965. These meetings are intended to provide opportunities for discussing advances in topical fundamental and applied research on spectroscopy of crystals doped with rare earth and transition metal ions. The first nine events were held as national meetings. For over 20 years, symposia have been gathering researchers working in the fields of optical spectroscopy and condensed matter physics from all over the world. After the Xth (Saint Petersburg, 1995), XIth (Kazan, 2001), XIIth (Ekaterinburg, 2004), XIIIth (Lake Baikal, 2007), XIVth (St. Petersburg, 2010), XVth (Kazan, 2013) and XVIth (St. Petersburg, 2015) Symposia, IFS2018 will return once again in Ekaterinburg.

A number of prominent Plenary Speakers have agreed to give presentations at the XVII International Feofilov Symposium. We invite you to come to Ekaterinburg in 2018, to contribute and to participate in an exciting conference in a stimulating environment. Join us for a memorable experience!

In 2018 the Symposium Program will be focused at but not limited to the following topics:

- ***f*- and *d*-ions in crystalline and non-crystalline insulators and semiconductors, energy transfer**
- **electron-phonon interaction and dynamics**
- **relaxation of excited states and photoinduced phenomena**
- **microwave-optical and terahertz spectroscopy**
- **magnetic resonance spectroscopy**
- **magneto-optical spectroscopy**
- **nonlinear spectroscopy**
- **cooperative processes and coherent phenomena**
- **electron structure modeling and spectra simulation**
- **microscopic theory of exchange and hyperfine coupling**
- **resonant inelastic X-ray scattering**
- **charge transfer phenomena and charge ordering**
- **solid-state lasers, scintillators, phosphors**
- **crystallography aspects of optical materials development**
- **spectroscopy of photonic crystals**
- **probing of organic and biomaterials**

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Sergey V. Streltsov, Andrey V. Telegin

Contacts

+7 922 601 45 77,

+7 343 382 42 12

E-mail: ifs2018@urfu.ru

ifs2018.urfu.ru

Venue

Ural Federal University

Mikheev Institute of Metal Physics

19, Mira Ul. and 18, S. Kovalevskoi Ul.

Ekaterinburg, Russia

The symposium will combine plenary and keynote lectures from leading scientists in the field with sessions comprising shorter talks and poster presentations while fostering a warm collaborative atmosphere.

We hope the meeting in Ekaterinburg will offer you much to see, to learn, and to take away as long lasting memories from the border between Europe and Asia. Please visit the IFS2018 website at ifs2018.urfu.ru to find more about the Symposium, Ekaterinburg and the Urals.

Authors are welcome to submit a contribution to IFS2018 following the steps.

- Create your account on the IFS2018 website.
- Prepare your contribution. Write your abstract according to the guidelines reported in the template form that will be available upon creating your IFS2018 account.
- Upload your abstract on your IFS2018 profile webpage.

Abstract Submission Close – **May 20, 2018.**

The IFS2018 Program Committee will evaluate the abstracts and dispatch acceptance notifications by email before June 15, 2018. Presenting authors are welcome to register for the Symposium as soon as possible after being notified of acceptance of their abstracts.

Symposium Proceedings will be published in a special issue(s) of the *Physics of the Solid State* journal.

Registration and payment of registration fees will be available on the IFS2018 website.

