



LLPh-2018

**XVI INTERNATIONAL CONFERENCE ON LUMINESCENCE AND
LASER PHYSICS DEVOTED TO THE 100th ANNIVERSARY OF
IRKUTSK STATE UNIVERSITY (LLPh-2018)**

Arshan village, Republic of Buryatia, Russia

2–7 July 2018

www.llph.ru

Scientific program of the Conference

The program includes lectures of leading scientists (30 min.) and oral reports (15 min.) and poster presentations of researchers, postgraduates and students in the field of laser physics and luminescence. The results of theoretical and experimental research in the following areas will be discussed at the sessions of sections:

1. Spatial selective interaction of light and matter.

Высоконелинейные объемные запоминающие оптические среды. Investigations of properties of single atoms and molecules in traps, on substrates and in media. Laser luminescence micro- and nanoscopy. Overcoming the diffraction limit. Research of longitudinal and transverse selectivity of light interaction with condensed matter. Highly-nonlinear volumetric optical storage media.

2. Optics of artificial quantum systems.

Fundamental research of artificial quantum systems obtained by methods of nano- and radiation-beam technologies. New sources of radiation based on single quantum systems. Luminescence of nanocrystals and color centers.

3. High-intensity laser pulse interaction with optical media.

Mechanisms of highly-nonlinear coloration of wide-bandgap crystals. Multiple filamentation and supercontinuum generation. Mechanisms of luminescence excitation by high-intensive ultrashort laser pulses.

4. Modern laser, luminescent and radiation methods and technologies.

New laser, luminescence and radiation applications in physics, chemistry, biology, medicine, computer sciences, engineering, industries and ecology. Perspective materials, devices and equipment.

Contest of reports

The contest for the best scientific reports of young participants in three categories: “Students”, “Postgraduates” and “Young scientists, teacher and engineers” will be held during the conference.

Hosts of the Conference

Irkutsk Branch of Institute of Laser Physics of the Siberian Branch (SB) of Russian Academy of Sciences (RAS); Irkutsk State University; Geochemistry Institute of SB of RAS. Siberian Branch of Russian Academy of Sciences/

The conference coordinators

Научный совет по оптике и лазерной физике Российской академии наук; Научный совет по люминесценции Российской академии наук, Совет научной молодежи ИЛФ СО РАН.

The Conference Chairperson

Academician Sergey N. Bagaev, Chairperson of Scientific Council on Optics and Laser Physics of RAS.

Program Committee

A.G. Vitukhnovskiy, A.P. Voitovich, V.P. Dresvyanskiy, E.F. Martynovich (Chair), A.I. Nepomnyashchikh (Vice-Chair), A.V. Taichenachev.

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Organizing Committee

E.F. Martynovich (Chair), V.P. Dresvyanskiy (Vice-Chair – Scientific Secretary), Andrey V. Kuznetsov (Scientific Secretary for International Contacts), M.A. Arsent'eva, S.V. Boychenko, D.S. Glazunov, A.S. Emelyanova, M.D. Zimin, Aleksey V. Kuznetsov, R.O. Kuznetsov, N.L. Lazareva, N.T. Maksimova, A.A. Myasnikova, T.Yu. Sizova, F.A. Stepanov, A.A. Tyutrin, A.A. Shalaev, R. Yu. Shendrick.

Languages of Conference Russian, English.

Important dates

Application deadline – May 15, 2018.

Deadline for providing data for visa purposes: May 15, 2018 (for details refer to section “Visa Support” below). Please, note that it takes about one month to issue an invitation.

Publication of abstracts – 30 June 2018.

Conference is held – 2-7 July 2018.

Deadline for the submission of manuscripts of lectures and papers – 7 July 2018.

Application for participation

In order to participate in the conference it is necessary to register on the website (<http://www.llph.ru>) up to May 15, 2018. In case of any problems during the registration on the website you need to send e-mail with following attached files to the Organizing Committee:

1. Filled registration form,
2. Abstract.

Please, fill in your registration forms carefully and according to the rules. The registration form and abstract guidelines are available on the official conference website.

If you will not receive confirmation of admission of your application within 7 days after its (application) sending, please, contact the Organizing Committee.

Publication of manuscripts of lectures and papers

The manuscripts of lectures and papers, selected on the basis of peer review, are planned to publish in the journal “Bulletin of Russian Academy of sciences: Physics”. When preparing the manuscripts the authors are required to follow the guidelines of this journal: <http://www.maik.ru/ru/journal/izvfiz/>

Venue for the Conference, Cultural Program

The conference will be held in one of the most picturesque places near Sayan Mountains – in Arshan village. Excursions in Tunka valley and Baykal Lake will be organized for participants during the conference.

Registration fee and participation fee

Participants will be required to pay a registration fee in amount of 5000 Russian Roubles (RUR). For undergraduate and graduate students and accompanying persons the registration fee is 2500 RUR.

Information about accommodation conditions and order of registration fee payment will be posted on the conference web-site. The cost of accommodation will vary from 500 rubles and higher, depending on the level of comfort chosen by the participant.

Transfer of participants from Irkutsk to the conference venue and back will be organized by road. The estimated cost for the bus ticket is 500 RUR one-way. Tickets can be purchased by each participant when boarding the bus.

Visa support

The Organizing Committee requires the following information in order to issue invitations to Russia for visa support:

1. Scan of passport pages which contain biographical particulars and a photo.
2. Information about person:
 - a. Name, Surname (as in the international passport);
 - b. Date of birth;
 - c. Citizenship;
 - d. International passport number, when and where issued and validity period.
3. Information about affiliation of invited person:
 - a. The name and the mailing address of the place of work;
 - b. Information on the kinds of activity of the organization of the invited person.
4. Proposed dates of visit to Russia.
5. Proposed Russian cities to be traveled through.
6. City where the Russian Consulate is located and where the participant will obtain their visa.

If you have accompanying persons on the planned trip, please provide the same information for all of them.

It takes about **1 month** to issue an invitation.

Addresses and phones of the Organizing Committee

E-mail address: LLPh@bk.ru. Official web-site of the conference: <http://www.llph.ru> .

Mailing address: Organizing Committee of LLPh-2016, Irkutsk Branch of Institute of Laser Physics SB RAS, Lermontov Str. 130a, Irkutsk, 664033, Russia.

Phone: +7 902 56-12-179, +7 3952 51-21-60; Fax/Phone.: +7 3952 51-14-38.

Registration form and abstract template

Registration form and abstract text are formed in a single file of doc or rtf format, the file name contains the conference name, reporter's last name, city and abbreviation of the organization/institution represented by the reporter. File name is typed in Latin letters; underline symbol is used for separating words (e.g. "LLPh2018_Petrov_Irkutsk_ISU.doc"). Language is Russian or English, Times New Roman font, size 14, maximum volume of abstract text - 1 (one) page of A4 format, single line spacing, all margins - 25 mm (1 inch).

The table of the registration form is placed on the 1st page of the file. The second page begins with the title of paper, list of authors, name and address of the organization where the paper was performed, and contact e-mail address. After two blank lines the abstract text begins.

Use of complicated mathematical expressions and pictures in abstracts is not recommended. Pictures in abstract text must be put into a table of 2 lines or columns so that the first line/column contains picture and the second one contains a centered caption in Times New Roman font, size 12. Formulae must be typed in Microsoft equation (the tool included with MS Word). The list of cited sources may be placed at the end of the text, after a blank line, starting with the word "***References:***" (Italic). It is followed by the list of sources, numbered by Arabic numerals. References in text must be isolated by square brackets (e.g. "... in papers [1,2]"), usage of hyperlinks is not allowed.

Registration Form of Participant of XVI International Conference

1	Full name (First, Surname)	
2	Degree, title, position	
3	Year of birth	
4	Form of participation (Lecture, talk, poster, without presentation)	
5	Paper Title in Russian (if applicable)	
6	Paper Title (in English)	
7	Full name of organization – place of work	
8	Full mailing address of the place of work, including country	
9	Contact information: Home phone Business phone and fax E-mail.	

NEW METHODS OF DIAGNOSTICS ...

A.A. Ivanov, B.B. Petrov

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In this work authors ...

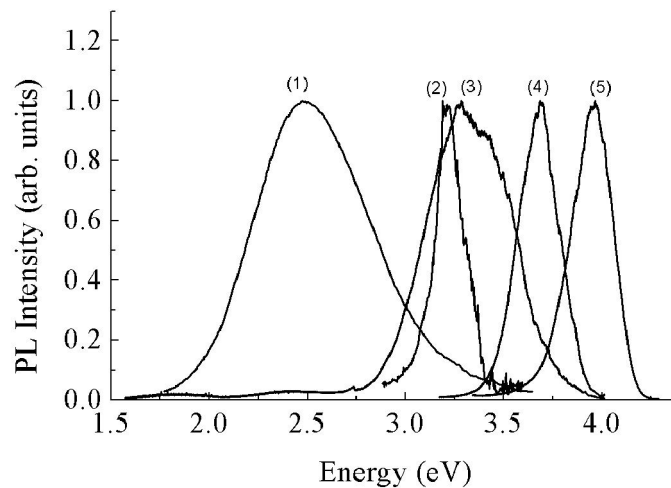


Fig. 1. Description of the picture...

References:

1. J.A. Armstrong, N. Bloembergen, J. Ducuing, P.S. Pershan, *Phys. Rev.*, 127, 1918-1939, (1962).
 2. V.G. Bespalov, N.S. Makarov, *Proc. SPIE*, 4638, 30-40, (2002).
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