10th International Seminar on Flame Structure (10ISFS)
October 9-13, 2023
Novosibirsk, Russia

http://kinetics.nsc.ru/10ISFS/

FIRST ANNOUNCEMENT

The Voevodsky Institute of Chemical Kinetics and Combustion SB RAS will host the 10th International Seminar on Flame Structure (October *9-13, 2023*). The Seminar is organized together with the Khristianovich Institute of Theoretical and Applied Mechanics SB RAS, Kutateladze Institute of Thermophysics SB RAS, Lavrentyev Institute of Hydrodynamics SB RAS, Boreskov Institute of Catalysis SB RAS, and the Novosibirsk State University. The seminar will be held under the aegis of the Russian section of Combustion Institute.

SEMINAR TOPICS

- Laminar and turbulent, premixed and diffusive flames of gaseous systems
- Flames of homogeneous and heterogeneous condensed systems
- Flame of polymers, composite materials, reduction of their combustibility
- Detonation combustion
- Flames in dust-loaded medium
- Experimental and numerical methods for studying the flame structure
- Chemical kinetics in combustion
- Inhibition and suppression of flames and fires
- Formation of soot and Nanoparticles in flames
- Formation and reduction of emission of toxic compounds in combustion
- Self-propagating high temperature synthesis
- Filtration combustion and microcombustion
- Catalysis of combustion processes
- Novel technologies in combustion

KEY DATES

April 20, 2023	First announcement, call for submission of Abstracts and Preliminary registration form
May 15, 2023	Submission of abstracts deadline
June 25, 2023	Notification of acceptance
June 25, 2023	Early registration and registration fees
July 7, 2023	Early registration and registration fees close
July 31, 2023	2nd Information announcement with complete agenda, the starting date for paper submittal
August 28, 2023	Submission of full papers deadline
October 8, 2023	On-site registration
October 9-13, 2023	Seminar

REGISTRATION AND ABSTRACT SUBMISSION

For pre-registration, participants must fill out the registration form https://forms.yandex.ru/u/643e5c76c417f301856807f9/ or on the Seminar website: http://kinetics.nsc.ru/10ISFS/. Abstracts must be submitted before May 15, 2023, accompanied by an examination report on the possibility of publication (for Russian participants of the Seminar).

OBJECTIVES OF THE SEMINAR

The objective of the Seminar is to provide a representative international forum to discuss the state-of-the-art achievements and prospects in the experimental and numerical study of the structure of laminar and turbulent flames, the speed and limits of their propagation, as well as the fundamental and applied aspects of this scientific direction. Within the framework of the Seminar, it is planned to hold a competition of scientific works of young scientists. The best works will be awarded with diplomas and valuable prizes.

Leading foreign and Russian scientists in the field of combustion will deliver lectures at the Seminar:

- Valeriy Azyazov, Russia
- Xin Wang, PRC
- Dmitriy Glushkov, Russia
- Philippe Dagaut, France
- Alexander Eremin, Russia
- Alexander Karpov, Russia
- Geniy Kuznetsov, Russia
- Naian Liu, PRC
- Sergey Minaev, Russia
- Vasudevan Raghavan, India
- Pavel Strizhak, Russia
- Sergey Frolov, Russia
- Yuan Hu, PRC

REGISTRATION FEE

For participants – 8000 rubles (before July 7, *2023*) and 10000 rubles (later than July 3, *2023*).

For students – 4000 rubles (befor July 7, *2023*) and 5000 rubles (later than July 7, *2023*).

For accompanying persons – 4000 rubles (before *July 7, 2023*) and 5000 rubles (later than *July 7, 2023*).

The registration fee includes: participants' kit, Proceedings of the Seminar, coffee breaks, welcome party and banquet.

ORGANIZING COMMITTEE

O.P. Korobeinichev (Chair), A.A. Onishuk (Co-Chair), V.N. Parmon, V.M. Dulin, V.V. Kozlov, A.A. Korzhavin, V.E. Zarko, A.A. Vasiliev, Z.R. Ismagilov, V.A. Yakovlev, S.S. Minaev, I.V. Lomonosov.

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TECHNICAL COMMITTEE

A.G. Shmakov (Chair), A.M. Dmitriev, I.E. Gerasimov, L.M. Chikishev, S.A. Trubachev, D.A. Knyazkov, V.M. Shvartsberg, K.N. Osipova, T.A. Bolshova, A.A. Paletsky, O.G. Glotov.

CONFERENCE LANGUAGE

The official languages of the Seminar will be Russian and English for foreign participants.

PUBLICATION

The full-text articles presented at the Seminar will be published in electronic form in the 10ISFS Proceedings. The guidelines for authors comply with those for the journal "Combustion, Explosion and Shock Waves". The volume of submitted manuscripts should be not more than 20,000 characters. Selected manuscripts will be published in a special issue of the journal "Combustion, Explosion and Shock Waves" or in the journals "Chemical Physics" and "Chemistry for Sustainable Development".

BACKGROUND

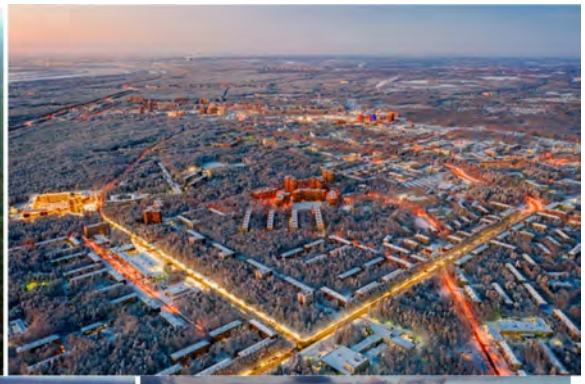
This Seminar is a continuation of nine previous Seminars on Flame Structure. It was preceded by: All-Union seminar on the structure of gas flames, Novosibirsk, 1983; All-Union seminar on the structure of gas flames, Novosibirsk, 1986; 3rd International Seminar on Flame Structure, Almaty 1989; 4th International Seminar on Flame Structure, Novosibirsk 1992; 5th International Seminar on Flame Structure, Novosibirsk, 2005; 6th International Seminar on Flame Structure, Brussels, 2008; 7th

International Workshop on Flame Structure, Novosibirsk, 2011; 8th International Workshop on Flame Structure, Berlin, 2014 and 9th International Workshop on Flame Structure, Novosibirsk, 2017.

VENUE OF THE SEMINAR

NOVOSIBIRSK is the third largest city in Russia, located in southwestern Siberia. The history of Novosibirsk began in 1893, when a bridge was built across the Ob River during the construction of the Trans-Siberian Railway. Until 1925, the city was called Novonikolaevsk in honor of the Russian Tsar Nicholas II.

At present, Novosibirsk is the largest industrial, cultural, scientific and educational center to the east of the Ural Mountains. Mining equipment, turbines, textiles, chemicals, machine tools for heavy engineering, and metallurgy products are produced here. Novosibirsk has the longest metro bridge in the world, which ensures the operation of the only metro in Russia beyond the Urals (the Novosibirsk metro was opened in 1985). Novosibirsk is home to several of Russia's most reputed universities, a number of research institutes and scientific centers. Novosibirsk is proud of its opera and ballet theatre, a number of drama theatres, museums, art galleries and numerous sports facilities.



20 km south of the city center one of the key research centers in Russia, Novosibirsk Akademgorodok is located. Akademgorodok is the scientific center of the Russian Academy of Sciences, the presidium of the Siberian Branch of the Russian Academy of Sciences is located here. The scientific town was built more than 60 years ago on the shores of the man-made Ob Sea and is surrounded by a magnificent pine forest. Akademgorodok is home to the Novosibirsk National Research State University, more than 30 research institutes, the Akadempark technopark, a number of research and production enterprises and IT companies. In addition, the town has several museums, a botanical garden, a large sandy beach and many other cultural and entertainment facilities.

CONTACTS

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ABSTRACT TEMPLATE:

A title for a one page abstract in bold 12 point Times New Roman

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[2]Department of One Page Abstracts, University of Proceedings, London, UK

Abstracts are to be one page long. Abstract Deadline is **May 15, 2023**. Abstracts should be submitted on the website http://kinetics.nsc.ru/10ISFS/

This abstract template is intended to provide a common format, which will require minimum reformatting when creating the Book of Abstracts. Thus, we would appreciate receiving an abstract as attachments in Rich Text Format (RTF) or in MS Word format.

Note that the corresponding author identified in the abstract will be entered into our data base for sending and receiving **all** email correspondence. Please underline the name of the corresponding author. **Only the corresponding author should send all emails!**

Please make the abstract informative in order to ensure that your paper is scheduled for the appropriate session and to attract the interest of your colleagues. Figures and tables may be included to convey important information. References should be included only when essential and are to be placed at the end of the abstract.

Your abstract must not exceed **one page**. The content of the abstract should be written in Times New Roman 12 pt font size, single line spacing, justified to the right and left margins. Paragraph spacing should be 0 pt before, 10 pt after. Also note that margins are 25 mm on both sides, top and bottom; typed area not exceeding 16 cm by 25 cm, including any tables, figures and references. The abstract title should be in bold letters.

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