

2024 Russian Federation Section of The Combustion Institute Report

Section Website: <https://comb-inst-rus-section.com>

Section Chair: Nickolay Smirnov

Section officers and board members with titles:

- Officers
 - chairman Nickolay Smirnov
 - deputy chairman Igor Assovskiy
 - international secretary Sergey Yakush
 - chairman of the Siberian regional department Anatolij Vasil'yev
 - scientific secretary of Siberian regional department Anatolij Trotsyuk
 - chairman of central regional department department Igor Assovskiy
 - chairman of the Ural- Volga regional department Aleksandr Amosov
 - scientific secretary of the Ural-Volga regional department Aleksandr Lukin
 - chairman of the North Western regional department Mikhail Silnikov
 - scientific secretary of the North Western regional department Mikhail Chernyshov
 - chairman of the Far East regional department Sergej Minaev
 - scientific secretary of the Far East regional department Nickolay Lutsenko
- Board Members
 - Vylen Azatyan
 - Vitaliy Adushkin
 - Oleg Korobeinichev
 - Vladimir Levin
 - Vasilij Fomin
 - Sergej Surzhikov
 - Vyacheslav Ulybin
 - Aleksej Lipanov
 - Vladimir Gubernov
 - Sergei Yakush
 - Mikhail Silnikov
 - Committee secretary: Veronika Tyurenkova

Members of the section:

Active Members	68
Non-Student Members	64
Student Members	4

Has the section revised its by-laws since 2022?

- No

Section meetings and workshops since 2022:

- Board Meetings-2022, June 22, 2022, St.Petersburg;
- Board Meetings-2022, Sept 6, 2022, Suzdal ;
- Board Meetings-2023, May 31, 2023, St.Petersburg;
- Board Meetings-2023, Aug 23, 2023, St.Petersburg;

- Workshops and Symposia
 - 10th Space Flight Safety Symposium of the International Academy of Astronautics and Russian Section of the Combustion Institute was organized in St.Petersburg 30 May-3 June, 2023, CI organizers – N.N.Smirnov, M.V.Silnikov (Russian Section). (<http://sfs-spb.ru/>)
 - 9th Space Flight Safety Symposium of the International Academy of Astronautics and Russian Section of the Combustion Institute was organized in St.Petersburg May 16-20, 2022, CI organizers – N.N.Smirnov, M.V.Silnikov (Russian Section). (<http://sfs-spb.ru/>)
 - Session on XIII ALL-RUSSIAN CONGRESS ON THEORETICAL AND APPLIED MECHANICS, August 21-25, 2023, St. Petersburg, Russia. CI organizers: N.N. Smirnov, M.V.Silnikov, S.E. Yakush (Russian Section) (<http://ruscongrmech2023.ru/>)
 - Session on Combustion and Detonation was organized within the frame of 50th International Summer School-Conference Advanced Problems in Mechanics (APM 2022). Russia, St. Petersburg June 20 – 24, 2022. Co-Chairmen: D. A. Indeitsev, A.M. Krivtsov, CI organizers: V.A.Levin. (<http://www.apm-conf.spb.ru>)
 - Russian and Belarus Sections of The Combustion Institute took part in organizing XVI Minsk International Forum on heat and mass transfer, May 16-19, 2022 in Minsk, Belarus. http://mif16.itmo.by/index_en.html
 - 2-d International Conference on Physics and Chemistry of Combustion and Processes in Extreme Environments. 12-16 July 2022, Samara. The Combustion Institute members Nickolay Smirnov, Andrey Shmakov, Denis Knyazkov, Vladimir Gubernov delivered plenary lectures at the meeting. <http://comphyschem.ssau.ru/en/>
 - XVI All-Russian Symposium on Combustion and explosion. Suzdal, September 4 — 9, 2022. <https://conferences.icp.ac.ru/comb2022/index.php?lang=en>
 - 10th International Seminar on Flame Structure (October 9-13, 2023) to be held in Novosibirsk. It is organized by Siberian Branch of Russian Academy of Science (SB RAS) 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 under the aegis of the Russian section of the Combustion Institute. <http://kinetics.nsc.ru/10ISFS/index.html>
 - Second Conference “Non-linear phenomena and dynamics of flame propagation: theoretical aspects and implementations” was held in Borovoe (Burabay) National Nature Park Kazakhstan from 25 to 29 of September 2022. Organizers from Russian section: Vladimir Gubernov, Nickolay Smirnov. <http://www.npdfp.org>

Other activities:

- 1. Scientific seminar for undergraduate students and postgraduate students on “Detonation and combustion” named after I.N. Zverev was organized by the faculty of Mechanics and Mathematics Moscow M.V. Lomonosov State University. Periodicity: once per week, commencement: since 1 September through 20-th December, and since 7-th February through 20-th May. Seminar chair – Smirnov N.N., seminar secretary – Tyurenkova V.V.
- 2. Scientific seminar of the central regional department of the Combustion Institute Russian section is being held in Moscow hosted by the Institute for Problems in Mechanics (Vernadskogo, 101). Organizers: M.T.Surzhiykov, S.E. Yakush. Periodicity: 6 sessions per year.

- 3. A session on Gas and Waves Dynamics and Detonation was organized within the frames of XXVI International Conference of students, Ph.D. students and young professionals “Lomonosov-2022”, held in Moscow M.V. Lomonosov State University. Chairman of Organizing Committee – V.A. Sadovnichiy, session organizers – R.I. Nigmatulin, N.N. Smirnov.
- 4. Interinstitutional seminar on Modern problems of combustion, detonation and physical gas dynamics. Once per two weeks. Organizers: Vladimir Gubernov, Alexey Kiverin, Sergei Minaev, Nickolay Smirnov. Secretary: Anastassia Moroshkina.
<https://sites.google.com/view/interestingseminar/>
- 5. The scientific team of Central regional department of the International Combustion Institute Russian Section (Smirnov N.N., Assovskii I.G., Tyurenkova V.V.) participates in a joint space experiment of NASA, ESA, Roskosmos, JAXA “SAFFIRE”(Spacecraft Fire Experiment) on measurements of materials burning rate under low gravity conditions in the space capsule environment using Cygnus unit as a test site after its separation from the International Space Station.
- 6. Terrorism being the major contemporary threat to Mankind Combustion Institute Russian Section supported a series of both International and National conferences aimed at antiterrorist activities with participation of students and young professionals.
- 6.1. Annual Russian young scientists Conference on “Problems of explosion safety and antiterrorism” organized by Russian Academy of Rocket and Artillery Sciences, Saint Petersburg University of the Ministry of Emergency and Combustion Institute Russian Section held in Saint Petersburg in April. Organizers: M.V. Silnikov, N.N. Smirnov.
- 6.2. International Conferences "Technical devices against terrorist and criminal explosions" organized under the auspice of Russian Academy of Rocket and Artillery Sciences, Saint Petersburg University of the EMERCOM of Russia and the Combustion Institute Russian Section. These science and Practical conferences are held in Saint Petersburg annually in October. Organizers: M.V. Silnikov, N.N. Smirnov, V.V. Adushkin.
- 7. A session on Gas and Waves Dynamics and Detonation was organized within the frames of XXVII International Conference of students, Ph.D. students and young professionals “Lomonosov-2023”, held in Moscow M.V. Lomonosov State University. Chairman of Organizing Committee – V.A. Sadovnichiy, session organizers – R.I. Nigmatulin, N.N. Smirnov.

Awards given by section:

- The medal is established to commemorate the outstanding scientist in the field of Physical Chemistry, USSR State Prize winner, academician of Russian Academy of Natural Sciences Professor Boris Efimovich Gelfand (18.02.1941 – 03.10.2010). The B.E.Gelfand medal is awarded by the Russian Section of The Combustion Institute. <https://www.comb-inst-rus-section.com/gelfand-medal>

Special achievements attained by section members:

- The chairman Nickolay Smirnov was awarded M.V. Lomonosov Prize for teaching activities, 2024;
- The Board Committee secretary Veronika Tyurenkova and section member Lyuben Stamov were awarded Medal Rakhmatulin Kh.A. of Russian National Committee on Theoretical and Applied Mechanics, 2022;
- The section member Elena Mikhilchenko was awarded Medal G.A. Tyulin of Federation of Cosmonautics of Russia, 2022;

- The Board Committee secretary Veronika Tyurenkova was awarded Medal A.Ya. Sagomonyan of Moscow M.V. Lomonosov State University, 2023;
- The Board Committee secretary Veronika Tyurenkova was awarded Certificate of Honor from the Russian Academy of Sciences, 2023;

Does your Section plan to organize the international Combustion Institute Summer School (CI-SS)?

- No

If you selected "Yes" which year will it be carried out?

- N/A

Other information you may want to report:

- N/A