

2022 Russian Federation Section of The Combustion Institute Report

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

Section Chair: Nickolai 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 Igor Assovskiy
 - Scientific Secretary of Central Regional Department Valeriy Nikitin
 - 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 LutsenkoBoard
- Members
 - Vylen Azatyan
 - Vitaliy Adushkin
 - Oleg Korobeinichev
 - Vladimir Levin
 - Vasilij Fomin
 - Sergej Surzhikov
 - Vyacheslav Ulybin
 - Aleksej Lipanov
 - Vladimir Gubernov
 - Committee Secretary: Veronika Tyurenkova

Members of the section:

Active Members	69
Non-Student Members	65
Student Members	4

Has the section revised its by-laws since 2020?

- No

Section meetings and workshops since 2018:

- Section Meetings
 - Board Meetings-2020, June 22, 2020, St.Petersburg
 - Board Meetings-2020, Oct 8, 2020, St.Petersburg
 - Board Meetings-2021, June 2, 2021, St.Petersburg
 - Board Meetings-2022, June 22, 2022, St.Petersburg
- Workshops

- 7th Space Flight Safety Symposium of the International Academy of Astronautics and Russian Section of the Combustion Institute was organized in St.Petersburg Oct 7-9, 2020, CI organizers – N.N.Smirnov, M.V.Silnikov (Russian Section). (<http://sfs-spb.ru/>)
- 8th Space Flight Safety Symposium of the International Academy of Astronautics and Russian Section of the Combustion Institute was organized in St.Petersburg June 1-4, 2021, CI organizers – N.N.Smirnov, M.V.Silnikov (Russian Section). (<http://sfs-spb.ru/>)
- Session on Combustion and Detonation was organized within the frame of 48th International Summer School-Conference Advanced Problems in Mechanics (APM 2020). Russia, St. Petersburg June 21 – 26, 2020. Co-Chairmen: D. A. Indeitsev, A.M. Krivtsov, CI organizers: V.A.Levin, T.A.Zhuravskaya. (<http://www.apm-conf.spb.ru>)
- Session on Combustion and Detonation was organized within the frame of 49th International Summer School-Conference Advanced Problems in Mechanics (APM 2021). Russia, St. Petersburg June 21 – 25, 2021. Co-Chairmen: D. A. Indeitsev, A.M. Krivtsov, CI organizers: V.A.Levin, T.A.Zhuravskaya. (<http://www.apm-conf.spb.ru>)
- XI All-Russian Conference with International participation Combustion of fuel: theory, experiment, applications. 09-12 November 2021 Novosibirsk.
- 16-th International Conference on “Technical devices against terrorist and criminal explosion” was held in St. Petersburg on 11-13 October 2020 under the auspice of Russian Academy of Rocket and Artillery Sciences, Saint Petersburg University of the EMERCOM (Ministry of Emergency) and Combustion Institute Russian Section. Organizers: M.V. Silnikov, N.N. Smirnov, S.P.Medvedev, M.V.Chernyshov, V.V.Adushkin. (<https://www.npo-sm.ru/konferencii/>)
- 9th Memorial Seminar of Professor Boris E.Gelfand was held in St. Petersburg on 11-13 October 2021 under the auspice of Russian Academy of Rocket and Artillery Sciences, Saint Petersburg University of the EMERCOM (Ministry of Emergency) and Combustion Institute Russian Section. Organizers: M.V. Silnikov, N.N. Smirnov, S.P.Medvedev, M.V.Chernyshov, V.V.Adushkin. (<https://www.npo-sm.ru/konferencii/>)
- XXVI All-Russian seminar with international participation on jet, tear-off and non-stationary flows. June 27 – July 1, 2022, Saint Petersburg. The scientific events of the seminar were organized on the basis of the D.F. Ustinov Baltic State Technical University "VOENMEH", located in the historical center of St. Petersburg. Organizers: M.V.Chernyshov, S.T.Surzhikov, V.M.Fomin, V.A. Levin, A.M.Lipanov. <https://voenmeh.ru/science/conferences/gasjets-2022>
- 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/>
- XV All-Russian Symposium on Combustion and Explosion, November 29 - December 4, 2020, Moscow, Russia. <https://conferences.icp.ac.ru/comb2020/>

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-2021", held in Moscow M.V. Lomonosov State University. Chairman of Organizing Committee – V.A. Sadovnichiy, session organizers – R.I. Nigmatulin, N.N. Smirnov.
- 4. 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.
- 5. 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.
- 5.1. 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.
- 5.2. 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.
- 6. 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-2022", 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 section member Oleg Korobeinichev was awarded the honorific title of Fellow of The Combustion Institute, 2021
- The section member Oleg Korobeinichev was awarded the Certificate of Appreciation for service to The Combustion Institute as Associate Editor (2017-2021), 2021
- 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 Mikhalchenko was awarded Medal G.A. Tyulin of Federation of Cosmonautics of Russia, 2022
- The Board Committee secretary Veronika Tyurenkova and section member Lyuben Stamov received a PhD in Physics and Mathematics, 2021

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