International Congress and Exhibition “Non-ferrous metals and minerals-2019”

16 to 20 September, Krasnoyarsk hosted the annual XI international Congress and Exhibition “Non-ferrous metals and minerals”, which is one of the world’s most popular platforms for exchange of ideas, experience and establishment of mutually beneficial and friendly relations between Russian and foreign companies, universities and R&D centers. The Congress and Exhibition was attended by more than 800 representatives of 227 companies and research centers from 34 countries.

This year the Congress held significant events for the aluminum industry:

- 25th anniversary international conference and exhibition “Aluminium of Siberia”
- 37th International Conference “ICSOBA”

More than 160 scientific reports were presented at the joint conference “Aluminium of Siberia - ICSOBA” in the following areas:

- Alumina production
- Aluminium reduction technology
- Additive manufacturing
- Carbon materials
- Casting, deformation and recycling
- Metallurgy of silicon
At the industrial Exhibition participants were able to learn more about the state-of-art equipment, technologies, materials that are developed for the mining and metallurgical industry. In particular, RUSAL presented its developments: innovative alloys for the space industry, aluminum products printed on a 3D printer, a model of an aluminum pedestrian bridge, a hopper car, samples of cable products, etc.

"Krasnoyarsk region is a key area", - said the CEO of RUSAL Evgeny Nikitin at the opening ceremony of the forum – "The entire cycle of aluminum production from ore mining to finished products is represented here, including engineering and technical activities. At the Krasnoyarsk aluminum smelter we introduce and test all our state-of-the-art developments in the field of environmental safety and creation of innovative aluminum-based alloys. We can say that our region sets trends in the development of not only the Russian but also the global aluminum industry, and the annual Congress is very important for us as a platform for obtaining new knowledge, sharing experience with equipment manufacturers, materials, technology holders."

At the Young scientists forum teams from different countries demonstrated their knowledge and skills and applied non-standard approaches to solving real production problems in the framework of the finals of the International Championship of technology strategy "Metal Cup".

In order to get acquainted with the industrial potential of the Krasnoyarsk region and neighboring areas, participants enjoyed the following field trips: Krasnoyarsk Aluminium Smelter, Achinsk Alumina Refinery (unique technology of alumina production from nephelines), Sayanogorsk Aluminium Smelter, Krasnoyarsk Non-Ferrous Metals Plant (refined precious metals production).

The delegation to the Sayanogorsk aluminum plant included heads and leading experts of the largest metallurgical companies from Canada, Iran, France, Switzerland, Italy, UAE, China and Russia.

At the aluminium production and foundry areas of the smelter guests saw the processes of anode replacement, metal casting, melt flowing from the ladle into the mixer, operation of a unique crane with a rotary cabin and a new foundry complex producing 10 kg aluminum bars for the automotive industry. The Congress participants first of all noted the cleanliness and order at the territory of the smelter and the entire industrial site, as well as high level of automation and digitalization of production, as well as use of environmentally friendly technologies. Particular attention of the representatives
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of the world metallurgical community was attracted by the latest development of RUSAL engineers – RA-550 cells, located in the R&D area of Sayanogorsk aluminum smelter.

The participants were able to appreciate the hospitality of Siberians, get acquainted with their customs and the unique nature of Siberia during Krasnoyarsk city tour, Stolby nature reserve, and cryophiles club.


The Chairman of the Organizing Committee, professor Peter Polyakov, summed up the results of the event: “Active participation of international metallurgy companies strengthened our opinion that the Congress in Krasnoyarsk could become the center from where the idea should spread worldwide, aimed at solving the general issue – “No waste as a result of the mining and metallurgical enterprises activities”. Why Krasnoyarsk? It is the center of Siberia. Our planet has two lungs – in South America and in Siberia. And Siberia is also the center of nonferrous metallurgy in Russia”.

At the next Congress and Exhibition, the organizers will pay special attention to solving the issues mentioned in his speech.

THE ORGANIZING COMMITTEE INVITES EVERYONE TO TAKE PART IN THE XII INTERNATIONAL CONGRESS AND EXHIBITION “NON-FERROUS METALS AND MINERALS” WHICH WILL BE HELD IN KRASNOYARSK SEPTEMBER 7-11, 2020.