

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #22, 25 August 2022

Dear colleagues and friends,

This week, the International Forum of Technological Development Technoprom-2022 was held. A JINR delegation headed by Institute's Director Grigory Trubnikov took part in the event. Read the news from Novosibirsk in this issue of the Newsletter.

An important event for the Institute was the recent signing of a cooperation agreement between JINR and the FMBA of Russia.

This week, JINR welcomed a group of schoolchildren from Vietnam, a JINR Member State. On 27 August, the multinational JINR family is going to celebrate the national holiday of the Republic of Moldova - the Independence Day.

The end of summer indulges Dubna in hot weather, while the average temperature on Mars is -63 °C. In this JINR Newsletter, read how the Curiosity rover is doing, and what JINR has to do with it.

We will also tell you about the new books of the JINR Science and Technology Library. Didn't you know that JINR has a historical fencing and medieval combat club? We'll tell you about that too!

JINR Press Office



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Breaking News. Technoprom-2022

Grigory Trubnikov spoke at Technoprom-2022 plenary meeting

On 23 August, the IX International Forum of Technological Development "Technoprom-2022" started in Novosibirsk. It is a landmark event of the Decade of Science and Technology in Russia. JINR Director Grigory Trubnikov spoke at the plenary meeting of the Forum dedicated to the search for effective tools to achieve the technological sovereignty of Russia.



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JINR delegation took part in BRICS Working Group meeting

On 23 - 24 August, the fourth international meeting of the BRICS Working Group on Research Infrastructures and Megascience Projects was held at the Technoprom-2022 forum in Novosibirsk, which is taking place this week. The Joint Institute took an active part in the event.

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About NICA megascience project at Technoprom

Within the framework of the forum topic "Nuclear technology and megascience projects", there was a meeting "Unique scientific facilities of the megascience class – drivers of science, human potential, and technology transfer development". Academician Trubnikov spoke about the NICA accelerator complex, goals, stages, and deadlines of its implementation. He focused in detail on the project management and its applications.

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Cooperation

JINR and FMBA signed cooperation agreement

On 18 August 2022, Veronika Skvortsova, Head of the Federal Medical and Biological Agency of Russia, visited the Joint Institute for Nuclear Research. The signing of a cooperation agreement between JINR and FMBA was the main outcome of the visit.

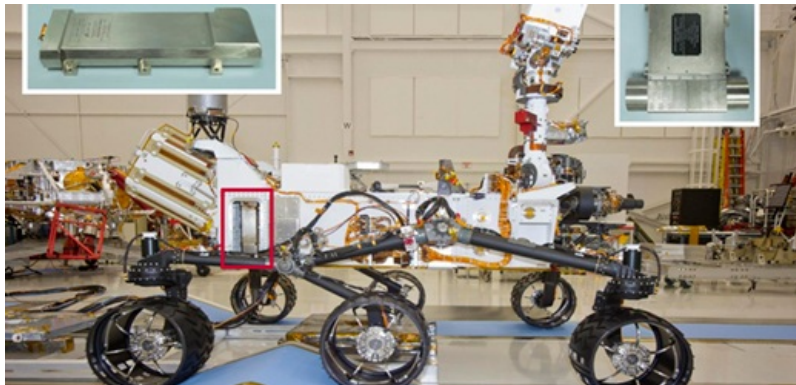


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Research

Ten years on Mars

The DAN scientific device of the Space Research Institute RAS (IKI RAS), created and tested with the participation of two laboratories of the Joint Institute for Nuclear Research, has been operating for ten years aboard the Curiosity rover. Its goal is to determine the presence of water in Gale Crater.



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How to treat product surface in such a way as to reduce corrosion or increase radiation resistance?

JINR conducted a series of studies on the influence of processing parameters on the defect structure, the results of which will help to produce better parts for machine tools, dentures, and much more.

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Education

Vietnamese schoolchildren got acquainted with JINR

Vietnamese schoolchildren and students from Moscow educational institutions visited JINR. Students attended FLNR, the JINR interactive exhibition, and the Institute's Museum.



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Physics teachers from Nizhny Novgorod visited JINR

On 18 - 19 August, physics teachers from Nizhny Novgorod visited the Institute. The two-day programme included a visit to five laboratories and an introduction to the main projects and research facilities.

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People

Time's Witnesses: Igor Nikolaevich Meshkov

An interview with Igor Nikolaevich Meshkov, RAS Academician, Professor, Chief Researcher of VBLHEP and DLNP JINR, Scientific Leader of the NICA Accelerator Complex project and the Positron Annihilation Spectroscopy project. Candidate of Physics and Mathematics (1970), Doctor of Physics and Mathematics (1975), Professor (1979).



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Keen on Middle Ages

Since 2016, there is a club of historical fencing and medieval combat “JINR Team” at the Institute's Stadium “Nauka”. Many people may have seen photos of spectacular competitions on social networks, participants of which were club fighters. The Club Head Ivan Dotsenko spoke about the sport history and achievements of Dubna residents.



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Announcements

What to read?

We offer you a new book exhibition in the Science and Technology Library of JINR.

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Remembering founders

Leopold Infeld

Leopold Infeld (1898 – 1968), a famous theoretical physicist and one of the JINR founders, was born on 20 August 1898. He was an Academician of the Polish Academy of Sciences and a number of foreign academies and founder of the school of theoretical physics in Poland.



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Nikolay Bogoliubov

On 21 August 1909, one of the JINR founding fathers was born – the world-famous theoretical physicist and mathematician Nikolay Nikolaevich Bogoliubov. N. N. Bogoliubov was the founder and first Director of the Laboratory of Theoretical Physics JINR, and later was Director of the Institute in 1965 – 1989.



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Bruno Pontecorvo

On 22 August, the Joint Institute celebrated the birth date of Bruno Maksimovich Pontecorvo (1913 – 1993), an outstanding scientist and the founder of experimental neutrino physics. As the founder of high-energy neutrino physics and neutrino astronomy, he was the first in the world to put forward the idea of neutrino oscillations, which was not confirmed experimentally until nearly 60 years later.



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Media

We offer you the video about the visit of Veronika Skvortsova, Head of the FMBA of Russia, to JINR.

[WATCH →](#)

The JINR University Centre prepared a video with interesting facts about an outstanding scientist and one of the founders of JINR **Nikolay Bogoliubov**.

[WATCH →](#)

Paying tribute to the memory of **Bruno Pontecorvo**, we offer to watch the videos made by the JINR University Centre and the Laboratory of Nuclear Problems, in which the brilliant scientist worked for many years.

[WATCH video by UC →](#)

[WATCH video by DLNP →](#)

JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #31-32 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Seminars

- [29 August 2022](#), at 11:00 AM, BLTP, Blokhintsev Conference Hall (4th floor). [BLTP Journal Club](#)
- [31 August 2022](#), at 11:00 AM, VBLHEP. "Development of a radiation-resistant module of the electromagnetic calorimeter of the LHCb spectrometer" by E. V. Shmanin
- [31 August 2022](#), at 11:00 AM, DLNP. "Search for quantum black holes in lepton and jet final state using p-p collisions at $\sqrt{s} = 13$ TeV with the ATLAS Detector" by Zoya Karpova

Culture

- [24 August - 18 September 2022](#), at 7:00 PM. JINR Cultural Centre "Mir". [Art exhibition by Palette Creative Association of Dubna Artists](#)
- [25 August 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "Fried Green Tomatoes at the Whistle Stop Cafe" by Fannie Flagg
- [26 August 2022](#), at 6:30 PM. JINR Universal Public Library. Dubna intellectual game's club
- [1 September 2022](#), at 7:00 PM. JINR Universal Public Library. Book club "Summer Reading List": discussing the book "The Ladies' Delight" by Émile Zola

For Kids

- [26 August 2022](#), at 6:30 PM. JINR Cultural Centre "Mir". Meeting of the book club "Growing up from "Let's READers" (for children over 12 years old)
- [1 September 2022](#), at 5:00 PM. JINR Cultural Centre "Mir". To the Knowledge Day: "Lessons of Kindness"

ALL JINR EVENTS ➡

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