

Happy anniversary!

On February 21, 2026, Igor Burlakov, Doctor of Technical Sciences, Professor, Deputy General Director for Innovation and Science at the State Research Center of the Russian Federation "Research, Development and Production Center ORION" JSC, celebrated his 70th birthday.



In 1979, I. Burlakov graduated from the Moscow Institute of Physics and Technology with a speciality in physicist-engineer. Since 1976, he has been continuously working at RD&P Center ORION JSC, progressing from a junior researcher to Deputy General Director for Innovation and Science.

I. Burlakov is a well-known specialist in the field of optoelectronics and photonics technologies, semiconductor physics, and photoelectronic devices. For the first time in Russia, he developed the basis of industrial technology for cooled focal plane arrays (FPA) based on the semiconductor compound cadmium-mercury-telluride. As a leader, he possesses the ability to successfully find optimal approaches and make prompt decisions to achieve his set goals. The advanced infrared FPAs and optoelectronic devices created under his leadership and with his direct participation have found wide application in systems and complexes for defense and civil purposes. The completed developments are competitive on the global market and create the basis for the transition of infrared optical information technologies to a new grade generation.

I. Burlakov carries out extensive scientific, organizational, and pedagogical work as the Head of the Basic Department of Infrared Technology and Electronic Optics at the Russian Technological University – MIREA, Chairman of the State Examination Committee of the School of Electronics, Photonics, and Molecular Physics at the Moscow Institute of Physics and Technology, Editor-in-Chief of the journals "Advances in Applied Physics" and "Applied Physics," Member of the Editorial Board of the "Optical Journal", Deputy Chairman of the Dissertation Council at RD&P Center ORION JSC, and Member of the Dissertation Council at the Moscow Power Engineering Institute (MPEI). He has supervised 3 doctors and 6 candidates of science. He is the author of more than 340 scientific papers published in

Russian and foreign journals, including more than 35 invention patents, 3 books, and 3 training edition.

Burlakov's high level of professionalism, extensive experience, and in-depth knowledge of the industry's development prospects enable him to perform extensive expert work as a member of the Presidium of the Interdepartmental Expert Council for Federal Project No. 3 (Strategic Materials), a member of the Expert Council for Scholarships for Outstanding Achievements and Significant Contributions to the Creation of Breakthrough Technologies and the Development of Modern Equipment for the Country's Defense and Security, and an expert for the Advanced Research Found.

For his many years of scientific, technical, and leading work, he has received awards and honors from federal government agencies, including the Honorary Worker of Science and Technology of the Russian Federation, and was awarded the Government of the Russian Federation Prize in Science and Technology in 2024.

The Editorial Board and the Editorial Office of the journal "Applied Physics" sincerely thank you, Igor Burlakov, for your invaluable contribution to the development of the journal, which, thanks to your professionalism, demanding nature, and ability to see the future, is one of the most famous and respected Russian scientific publications. Together with your numerous colleagues, friends, and students, we congratulate you on your glorious anniversary and wish you good health, fruitful scientific and educational activities, success, and good luck in achieving outstanding results.