

Vyacheslav Dmitrievich Pis'mennyi



Vyacheslav Dmitrievich Pis'mennyi, a well-known specialist in the field of plasma and laser physics, a Doctor of Physics and Mathematics, Professor, Corresponding Member of the Russian Academy of Sciences, the author of more than 150 scientific publications and inventions is now seventy.

Vyacheslav Dmitrievich was born on 17 August, 1932 in Kerch in the family of a worker. In 1951, he entered the Department of Physics of M. V. Lomonosov Moscow State University. After graduating from the University, he continued education as a post-graduate and then worked at the Research Institute of Nuclear Physics of the University.

Since 1975 to this day, V.D. Pis'mennyi has been working in the branch of the I.V. Kurchatov Institute of Atomic Energy (since 1991 – the Troitsk Institute of Innovation and Thermonuclear Investigations – TRINITY). Beginning from 1978, Vyacheslav Dmitrievich has been the director of this Institute, known in Russia and abroad for its investigations in the field of controlled thermonuclear fusion, plasma physics, laser physics and technology, for

the development and application of pulsed power sources based on MHD generators and for its participation in the defence program. In 1994, TRINITY achieved a State Science Centre status.

The basic direction of Pis'mennyi's scientific investigations is the study of plasma dynamics and methods of pumping of high-power gas lasers by ionising radiation. He discovered and investigated the processes of genesis and evolution of overheating instability and found that the line emission of impurities played the significant role in the energy balance of thermonuclear plasma. He also made great contribution to the research of lasing upon pumping gaseous media by the energy of nuclear reactions and by nonself-maintaining gas discharge, controlled by ionising radiation. V.D. Pis'mennyi developed the fundamental principles of physics of gas-discharge repetitively pulsed lasers with the air-pressure working medium and the methods of discharge stabilisation within great volume; he optimised pumping regimes and compositions of working mixtures for such lasers.

Under the scientific leadership of Vyacheslav Dmitrievich and with his active participation, a number of unique systems based on high-power gas-discharge lasers and electrodynamic mass-accelerators was created for physical research, technological purposes and special applications.

For the results of his scientific investigations, V.D. Pis'mennyi was awarded the M.V. Lomonosov Prize of the 1st degree (1978), the State Prize of the USSR (1978) and the Lenin Prize (1984). In 1984, he was elected a Corresponding Member of the Academy of Sciences of the USSR.

His mentality is distinguished by high personal activity, system concept in solving scientific and economic problems, tactful and provident attitude towards people.

As far back as he was a post-graduate of the Department of Physics of Moscow State University, he became one of the initiators of the movement of student brigades, and during several years, he was a commander of the USSR student brigade. Since May 1986, V.D. Pis'mennyi had taken active part in the works that had been conducted in Chernobyl to eliminate the after-effects of the catastrophe at the Chernobyl Atomic power plant. Being the Honorary citizen of Troitsk and chairman of the council of the Scientific centre, Vyacheslav Dmitrievich devotes a lot of his strength and energy to solving the problems of the development of Troitsk.

Among the honours, which came to him in recognition of his great success in the scientific and public activity, were the Badge of Honour, Order of Courage and four medals.

The editorial council and editorial board of Quantum Electronics heartily congratulate Vyacheslav Dmitrievich and wish him good health and creative progress.