
VOLODYMYR IVANOVYCH MURATOV
 (to the 70th Anniversary of his Birthday)



On June 30, 2006, Volodymyr Ivanovych Muratov, the head of the plasma physics chair at the V.N. Karazin Kharkiv National University, the Prize Winner of the State Prize of Ukraine, Professor, will be 70.

V.I. Muratov was born at the town of Bolkhov (the Orel region, Russia). After leaving the Bolkhov school with a gold medal, he entered the faculty of physics and mathematics at the Kharkiv State University and, in 1958, graduated with honors from the nuclear physics department of this faculty. From 1958 to 1971, V.I. Muratov fruitfully worked as a scientific researcher at the Kharkiv Institute of Physics and Technology. In 1966, he defended his Ph.D. thesis “Experimental researches of nonlinear interaction of waves in plasma”. Since 1971, he has been working at the physicochemical faculty of the Kharkiv State University: first, as an associate professor of the plasma physics chair; then, since 1975 till now, as its head. In 1991, according to the decree of the State Committee on national education of the USSR, V.I. Muratov was conferred the academic rank of Professor in plasma physics. For five years (in 1981–1985), he was the dean of the Faculty of Physics and Technology.

The main scientific interests of Prof. Muratov concern studying the nonlinear phenomena that

accompany the processes of propagation and interaction of electron flows, electromagnetic wave generation, and other issues of plasma electronics. In addition, he is interested in the processes of interaction between charged particles and solids. V.I. Muratov is the author of about 100 scientific papers in the field of plasma physics and controlled nuclear fusion, plasma and radiation electronics, whose significant part has been published in leading scientific journals. These articles deal with a lot of scientific problems, such as the decay instability of waves in plasma, nonlinear amplification of waves by beams with supercritical velocities, bulk charge solitons, nonequilibrium power-law distributions of electrons in the solid-state plasma, secondary-emission radioisotope current sources, transition and diffraction emission by electron bundles generated by Bernstein–Greene–Kruskal waves. His name is widely known to the scientific community.

The cycle of works “Enlightenment of plasma wave barriers owing to linear kinetic effects”, where V.I. Muratov took an immediate participation, was awarded the State Prize of the Ukrainian SSR in the field of science and engineering in 1979.

Prof. Muratov pays a lot of attention to educational and methodological work at his chair. He lectures special courses “Plasma physics”, “Collective effects in plasma”, and “Optics of charged particles”. During recent years, he, in the co-authorship with the leading scientists, has published more than 10 manuals adopted by the Ministry of Education and Science of Ukraine which concern the basic courses lectured at the chair.

For his successful work and achievements attained in the development of science, V.I. Muratov was awarded the Labor Distinction Medal and the Decoration of the Ministry of Education of the USSR “For excellent success in work”. In 2002, the Academic council of the University conferred him the honorary title “Honored Scientific Researcher”.

The collective of lecturers and employees of the V.N. Karazin Kharkiv National University sincerely congratulate Prof. Muratov on his 70-th anniversary and wish him health, creative longevity, and new scientific discoveries.

I.I. Zalyubovskiy