

## Vladimir Matveevich Gruznov Turns Sixty

DOI: 10.1134/S1061934806080235



Vladimir Matveevich Gruznov, doctor of technical sciences, director of The Design and Technological Institute of Instrument Engineering for Geophysics and Ecology of the Siberian Branch of the Russian Academy of Sciences, and professor at Novosibirsk State University, turned sixty on January 25, 2006.

Professor Gruznov graduated from the Department of Physics and Engineering of Novosibirsk Electrotechnical Institute in 1970, worked at the Institute of Applied Physics of the Ministry of Mechanical Engineering of the USSR and at the Design Bureau of Precision Mechanical Engineering of the Ministry of Military Industry of the USSR, and, from 1990, has been the director of the Center (now Institute) of Instrument Engineering for Geophysics and Ecology of the Siberian Branch of the Russian Academy of Sciences.

The scientific work of Professor Gruznov deals with the detection of hazardous substances and illegal objects. Together with the researchers of his institute, Gruznov has developed the concept of rapid gas chromatography. This method meets the requirements of routine special and ecological control in speed of

response, selectivity, sensitivity, and the compactness of instruments. He proposed models of express conditions for remote vortex-type sampling adsorption preconcentration, direct sample injection, and sample injection with repeated preconcentration.

Design principles of portable gas chromatographs have been also developed. A series of EKHO high-speed gas-chromatographic detector/analyzers was designed. These instruments significantly surpass their field and laboratory analogues in rapidity and are highly competitive with the best foreign laboratory instruments in accuracy. The EKHO instruments are widely known. For this series of devices, Vladimir Matveevich and his coworkers were awarded the Prize of the Government of the Russian Federation. In 1999, he defended his doctoral dissertation in chromatography.

Professor Gruznov supervises successful research into the development of gas chromatography using air as a carrier gas, ion mobility increment spectrometry, portable chromatography–mass spectrometry, and elemental analysis using pulse neutron fluxes. The unique instruments designed at his institute were brought to certification. The EKHO-M analyzer of explosive substances has been accepted by the RF Ministry of Foreign Affairs, and a mobile chromatograph–mass spectrometer has been accepted by the RF Ministry of Defense.

Professor Gruznov is one of the organizers and concept developers of the program “Methods and Means against Terrorism” of the Siberian Branch of the Russian Academy of Sciences. He is the program coordinator. He also teaches students at Novosibirsk State University and is a professor in the Faculty of Radiophysics and a teacher in the Faculty of Analytical Chemistry. Professor Gruznov is also actively engaged in scientific organization work. In 1989, he proposed to organize the Center of Instrument Engineering for Geophysics and Ecology. He is a member of the Scientific Council on Analytical Chemistry of the Russian Academy of Sciences, the Scientific Council of the Joint Institute of Geology, Geophysics, and Mineralogy of the Siberian Branch of the Russian Academy of Sciences, the Scientific Council of the Engineering Council of the Novosibirsk Technical Park, and the expert council of the administration of the Novosibirsk oblast, and he coordinates the cooperation of the Siberian Division of the Russian Academy of Sciences with the Ministry of Emergency Situations of the Russian Federation.

The Scientific Council on Analytical Chemistry of the Russian Academy of Sciences congratulates Vladimir Matveevich Gruznov on his birthday.