

## On the Seventieth Anniversary of the Corresponding Member of the Russian Academy of Sciences Mikhail Vsevolodovich Kabanov



***July 25 of 2007 is the Seventieth birthday of Professor Mikhail Vsevolodovich Kabanov, Director of the Institute for Monitoring of Climatic and Ecological Systems SB RAS, Corresponding Member of the Russian Academy of Sciences.***

M.V. Kabanov is one of well-known Russian scientists in the field of atmospheric physics, the author and co-author of more than 350 works, including 19 monographs and 18 inventions.

Basic investigations conducted by M.V. Kabanov are connected with problems of optical radiation propagation in the Earth's atmosphere. In particular, regularities of laser radiation interaction with the atmosphere discovered by him, have formed physical grounds of atmospheric optics as a branch of science. Priority results obtained by M.V. Kabanov in this field

have gained a wide recognition both in Russia and abroad. Based on these results, M.V. Kabanov and his research team have developed new optical methods for measurements in the atmosphere and a wide series of civil and defense optoelectronic systems.

In the 1980s, M.V. Kabanov was Director of the Siberian Physical-Technical Institute at the Tomsk State University and, simultaneously, of a Head of the scientific department at the Institute of Atmospheric Optics SB RAS, favoring the progress in cooperation between the academic science and the university education. In those years, M.V. Kabanov continued his research into electrooptical effects in the atmosphere, methods of optical and radio sensing, and the element base of optoelectronic devices.

In the 1990s, M.V. Kabanov has generalized the international scientific-technical progress in the field of atmospheric physics in the collective monograph *Regional Monitoring of the Atmosphere* in five volumes and justified the concept of combined climatic-ecological monitoring as interdisciplinary field experiment with application of new measurement tools. According to this concept, he, as a Director of the Design and Technology Institute "Optika" SB RAS, has successfully carried out the conversion of the Institute into the Scientific-Research Institute for Monitoring of Climatic and Ecological Systems (the conversion was accomplished in 2003) with the preservation of the material and technical basis and the engineering staff. In these years, he succeeded in creation of the scientific School on Climatic and Ecological Problems (the Leading School under the President's grant in 2000–2003).

In the recent years, the Institute headed by M.V. Kabanov is an active participant of the basic investigations of current natural and climatic changes in Siberia within the framework of research programs of the Siberian Branch of the Russian Academy of Sciences. M.V. Kabanov was a scientific supervisor and a direct participant of integrated (multidisciplinary) regional investigations, in which foreign scientists took part as well, at the Big Vasyugan Bog, being a quite typical for Siberia and the largest bog in the world. As a result of these investigations, new regularities in natural and climatic changes in Siberia have been revealed based on the use of accumulated ground-based and aerospace instrumental data. He continues the development of new approaches to the physical-mathematical description of observed climatic processes and their interaction

with global processes. For the past five years, he published a collective monograph and more than 20 papers in different scientific journals.

M.V. Kabanov takes an active part in training and selection of young specialists. Ten doctor's theses and more than 20 candidate's theses were defended under his supervision.

The International Research Center SB RAS, created in 2002 under the Kabanov's leadership, extends the direct scientific-technical cooperation with some leading scientific organizations of France, German, Bulgaria, China, and other countries.

M.V. Kabanov is a member of several scientific councils of RAS and SB RAS, the Member of the American Physical Society, Academician of the Metrological Academy of the RF, the Member of the Doctorate Council at the Tomsk State University, the Member of Editorial Boards of the journals *Atmospheric and Oceanic Optics* and *Geography and Natural Resources*, as well as the leader and coordinator of some national and European scientific and research projects.

For his fruitful scientific and research activity, M.V. Kabanov is awarded with the Order of Red Banner of Labor and the Order of Honor, medals "For Heroic Labor," "Veteran of Labor," Tsiolkovskii Medal, as well as commemorative signs "For Services to the Tomsk Region," "For Services to Tomsk," "For Services to the Tomsk State University," sign "Inventor of the USSR," and the honorary title "Honorary Veteran of SB RAS."

The collective of the Institute for Monitoring of Climatic and Ecological Systems SB RAS, colleagues and followers, as well as the Editorial Board of the journal *Atmospheric and Oceanic Optics* heartily congratulate Mikhail Vsevolodovich with his seventieth birthday and wish him robust health, good spirits, and new achievements for the benefit of the Russian science.