Preface

One of the typical features of **Academician Vladimir Evseevich Zuev** as a scientist that he always followed a complex approach to scientific research. This feature showed itself as earlier as at the dawn of formation of academic science in Tomsk. He used this approach both in formation of the world-level Institute of Atmospheric Optics, in creation of the infrastructure of Tomsk Akademgorodok, and in many other fields of his many-sided activity.

For the first time I heard the term "complex approach" from my father at the stage of formation of his main creation – the Institute of Atmospheric Optics of the Academy of Science of the USSR (now Russian Academy of Sciences), whose permanent director he was for 28 years. He created the structure of the Institute and somewhat later the structure of the Specialized Design "ureau "Optika" aimed at manufacturing scientific instrumentation based just on this approach. These structures favored conducting complex and large-scale basic research, whose results could be directly reduced to practice.

I can present many examples that V.E. Zuev's complex approach was of an immeasurable service. One example is the SATOR (Stratospheric and Tropospheric Ozone Research) complex program organized by the initiative of V.E. Zuev at the Institute of Atmospheric Optics. This initiative program was formulated in January 1991. It combined the efforts of research groups from 12 laboratories of the Institute and lasted five years.

During these years a great bulk of experimental data has been compiled at the Institute on the troposphere and stratosphere and on the transformation of the ozonosphere, including the cases of volcanic impacts. The experimental equipment and techniques were developed for conducting large-scale complex experiments on atmospheric optics, such as the global radiative experiment. The structure of now widely known Siberian Lidar Station was formed just within the SATOR Program. Finally, a pool of experience has been gained in the organization of such large-scale experimental programs, in their carrying-out, internal interactions, and scientific information exchange. All the above-listed then played a decisive part in conclusion of the international contract within the U.S. National ARM (Atmospheric Radiative Measurements) Program. This contract was as a life-buoy for the experimental science at the Institute in hard years of the economic crisis in our country.

Nowadays Academician V.E. Zuev with his impetuous character is organizing the International Research Center on Environmental and Ecology Physics (IRCEEPh) at the Tomsk Scientific Center S" RAS. The aim of this center is formulated as formation of a large complex program of ecological studies in flood plains of the great Siberian rivers Ob and Yenisei, which with their tributaries cover the wide expanses of the Western and Eastern Siberia like a blood system. This problem was discussed at the recent First Meeting on Ecology of Flood Plains of Siberian Rivers and Arctic organized by IRCEEPh. Now Vladimir Evseevich Zuev again, as in old times, boldly enters the new research area. However, his complex approach is invaluable just in such areas, since it allows optimal combination of environmental studies in various fields of physics, chemistry, and biology. There is no doubt that the great experience and authority of V.E. Zuev, as well as his activity will play a significant part in this noble cause.

The complex approach assumes universal knowledge and many-sided interests. These features of V.E. Zuev strongly supported him in his work as a secretary of the Division of Oceanology, Atmospheric Physics, and Geography of the Russian Academy of Sciences. He was elected to this position in 1991. This issue of the journal dedicated to the 75th birthday of Academician V.E. Zuev not only indicates that his services are recognized by his colleagues but also actually supports the wide scope of his interests.

For the Editorial "oard of the journal Atmospheric and Oceanic Optics it is a great pleasure to congratulate the editor-in-chief Academician V.E. Zuev with his jubilee and wish him splendid health for many years, family happiness, and further successes. We express our love and admire the Teacher, who lavishly gives his knowledge, experience, and ebullient vital energy.

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