

IN MEMORIAM DOCTOR EFIM ALEKSEEVICH ZASAVITSKII



(19 September 1958 – 14 April 2022)

On April 14, 2022, at the age of 63, after a long severe illness, Efim Alekseevich Zasavitskii—a wonderful person, scientist (Laureate of the State Prizes of the Republic of Moldova), Doctor of Physics and Mathematics—passed away.

Efim Alekseevich Zasavitsky, being a versatile researcher and talented administrator, was one of the key persons in the team of Academician Valerii Kantser, which worked on INTAS projects on low-dimensional A^4B^6 structures for thermoelectric converters in the late 1990s and the early 2000s.



Academician Valerii Kantser and dr. Efim Zasavitsky

Later, he joined the activities on STCU projects on studying the atomically precise design of complex oxide materials (2011) and developing thermochromic coatings for energy efficient windows (2017). However, the real subject of his interest was the construction of a laboratory aerodynamic full-size rocket system for studying the efficiency of antihail rocket agents. This system, which was unique not only for Moldova, but also for the region, met the urgent needs of the economy of Moldova. The system was used not only to accomplish the objectives of a large number of important economic projects, in particular, with partners from Bulgaria, Russia, Romania, and Ukraine, but also to conduct research activities and experiments, in particular, within the framework of the STCU project led by Dr. Zasavitskii.

Significant achievements in increasing the efficiency of antihail protection in the country and in improving the antihail protection methodology at the Special Service for Active Influences on Hydrometeorological Processes of the Republic of Moldova are associated with the name of Efim Alekseevich Zasavitskii.

Efim Alekseevich was one of the originators and developers of a specialized laboratory on testing ice-forming reagents at blowing speeds of their generators (antihail rockets, etc.) under

conditions similar to real atmospheric conditions at Ghitu Institute of Electronic Engineering and Nanotechnology. Up to the present, the results obtained are unique in terms of practice and research. The results were published in world-class international journals and reported at many conferences.



Efim Zasavitsky among participants of a conference

There are few laboratories of this type on the European continent; it is not by chance that the organized laboratory has gained international fame. Representatives of many countries, where activities on active influences aimed at suppressing hailstorms and providing additional precipitation are conducted, apply to the Institute for testing their reagents for active influences.



Specialized laboratory at Gitsu Institute of Electronic Engineering and Nanotechnologies

Efim Alekseevich left good memories behind for all the employees of the Institute for many years. His special friend was Dmitrii Karagenov. They have carried their friendship through decades. His close friend and colleague Dmitrii Karagenov shared his memories of their friendship.

We have known Efim Zasavitskii since 1984. In those years, he was a young postgraduate student; he began his career in the scientific and experimental laboratory for studying the properties of semiconductor compounds in the field of ultralow temperatures at Institute of Applied Physics of the Academy of Sciences of the MSSR. In his research work, he proved himself to be a scrupulous and thoughtful researcher with an excellent university theoretical background, who deeply understood the subject of the study.

In solving a problem, Efim Zasavitskii found extraordinary solutions using the latest scientific achievements in the field of semiconductor compounds. His special personal characteristic was the ability to listen to an alternative opinion of his colleagues, quietly discuss everything, and make a right decision. In personal relationships and in everyday life, he always acted honestly and decently.

In my memory, he remains a good comrade and true friend.

He behaved inconspicuously and never showed off. He wholeheartedly shared his experience and knowledge with his friends and unobtrusively rendered his opinion.

The staff of our Institute and the staff of the Special Service for Active Influences on Hydrometeorological Processes of the Republic of Moldova believe that the continuation of activities of the specialized laboratory in the organization of which Efim Zasavitskii took an active part will be the best memory of Efim Alekseevich.

Cherished memory to dear friend, scientist, and excellent person!

Tatiana Gutul¹,
Vladimir Feodorov¹

¹*Ghitu Institute of Electronic Engineering and Nanotechnologies, Chisinau, MD-2028 Republic
of Moldova*