

Academician: Vladimir Nakoryakov

The 70th Anniversary of Vladimir Nakoryakov, a prominent Russian scientist in the field of thermophysics and a Full Member of the Russian Academy of Sciences, was celebrated on July 26, 2005.

Academician V.E. Nakoryakov has made great contributions to the development of gas–liquid fluid dynamics, electro diffusion diagnostics for two-phase flows, wavy dynamics of two-phase media, unsteady processes in multiphase systems, convective heat and mass transfer in porous media, non-stationary two-phase filtration, boiling and condensation in porous media, combustion and heat and mass transfer in acoustic fields, theory of high-temperature alkaline and low-temperature proton-exchange fuel cells. He is a co-founder of a discovery of rarefaction shock waves in homogeneous medium.

Dr. Nakoryakov combines his broad knowledge of many scientific disciplines with an unending pursuit of new knowledge, and his powerful intuition to formulate absolutely new problems and initiate new research areas. This approach has produced novel scientific results in different branches of science and technology.

He is the founder of the theory for absorption heat pumps and initiator of environmentally friendly power engineering, energy-saving technologies and hydrogen power engineering. At present, Dr. Nakoryakov leads the scientific community on heat and mass transfer problems as applied to modern thermal equipment and hydrogen power stations. He supervises research on heat pumps, fuel cells and their applications, as well as develops original models of macroeconomic growth and technology.

Dr. Nakoryakov is the author of 440 scientific publications, 11 monographs, including the books “Heat Transfer in Acoustic Field”, “Wave Dynamics in Gas–Vapor–Liquid Medium”, “Wavy Flow of Liquid Films”, “Heat and Mass Transfer in Two-Phase Systems”. He is a co-author of invention together with academicians Ya. Zeldovich and S. Kutateladze. He was awarded by the State Prize and the Prize of the Council of Ministers of the USSR. His achievements were honored by many medals and awards. In 1999 Nakoryakov was awarded with “For Merits to Motherland” Insignia of IV rank.

Vladimir Nakoryakov became a Corresponding member of the Academy of Sciences in Mechanics in 1981. He was elected as a Full Member of the Academy in Power Engineering in 1987. Forty doctors of Science and two hundred PhDs are among his disciples. For a few years, he served on the Nobel Committee for nomination in physics. He was the head of chairs at the Novosibirsk State University and Novosibirsk Technical University. For many years he was the Chancellor of the Novosibirsk State University, Director of the Institute of Thermophysics (Siberian Branch of RAS), Vice-President of the Siberian Branch of RAS. Today he is Director of the Institute for Innovative Studies. Dr. Nakoryakov is a member of editorial boards for several Russian and international journals, the Chief Editor of international “Journal of Engineering Thermophysics”, and a member of five international scientific committees. He has published many articles in the local and federal press devoted to the problems of contemporary science, economics, and society.

On behalf of numerous friends and colleagues, we wish Vladimir Nakoryakov good health and many more successes in his creative activities.