

BOHDAN ZABAVSKY**August 19, 1957 – August 1, 2020**

On August 1, 2020, the heart of the famous Ukrainian scientist and pedagogue, Honored Professor of the Ivan Franko Lviv National University, Doctor of Physics and Mathematics, Head of the Department of Algebra and Logic, member of the editorial board of the journal “Mathematychni Studii” Bohdan Zabavsky stopped beating.



B.V. Zabavsky was born on August 19, 1957 in the village of Pidlisne, Nesterovsky district (now the village of Zibolky, Zhovkva district), Lviv region. After graduating from high school in 1974, he entered the Faculty of Mechanics and Mathematics of the Ivan Franko Lviv State University, graduating in 1979. Since then, from 1979 to 1986, B.V. Zabavsky worked in the department of algebra of the Institute of Applied Problems of Mechanics and Mathematics of the USSR Academy of Sciences, while studying at the graduate school of the same institute. During his post-graduate studies he underwent an internship at the Novosibirsk Research Center of the USSR Academy of Sciences. In 1987 he defended Ph.D. (Candidate of Sciences) dissertation “On the elementary divisor rings” at the Institute of Mathematics with computer center in Chisinau (Moldova).

Since 1987, his professional life has been inextricably linked with the Lviv University, where he advanced from an Assistant Professor to an Honored Professor of the Ivan Franko Lviv National University.

In 1986-1993, Bohdan Zabavsky worked as an Assistant Professor at the Department of Algebra and Topology of the Lviv State University. From 1993 to 2003 he worked as an Associate Professor at the Department of Algebra and Topology, and from 2003 to 2006 at the Department of Algebra and Logic. In 2005, Zabavsky defended his doctoral (Doctor of Sciences) dissertation “Diagonal reduction of matrices over rings” at the Taras Shevchenko National University of Kyiv and in 2006 received the academic title of Professor. Since then, Bohdan Zabavsky has worked as a professor at the Department of Algebra and Logic, which he headed in 2016. In 2018 he was awarded the title of Honored Professor of the Ivan Franko National University of Lviv.

A wide range of Zabavsky’s scientific interests allowed him to be constantly on the cutting edge of modern scientific research. His study of rings over which each matrix is reduced to a canonical diagonal form by elementary transformations, in particular, and equivalent transformations in general, led him to finding the necessary and sufficient conditions under which certain classes of Bézout rings belong to elementary divisor rings. He also singled out a class of rings with elementary reduction of matrices, investigated and established their

properties. He deserved recognition for solving a number of Henriksen's well-known problems in both commutative and noncommutative rings. His latest scientific results of research on the border of the theory of rings and modules and algebraic K-theory have identified a new direction in solving many known problems of the theory of elementary divisor rings.

Bohdan Zabavsky always shared scientific ideas with students and colleagues. He was the co-leader of the Lviv Algebraic Seminar, the founder, leader and systematic speaker of the scientific seminar on the problems of elementary divisor rings. He maintained and developed scientific contacts with many famous algebraists of the world, was a co-organizer of many international algebraic conferences. There are numerous citations of his results in scientific journals.

B.V. Zabavsky was a member of the editorial boards of scientific mathematical journals, in particular, "Mathematychni Studii", "Applied Problems of Mechanics and Mathematics", "Visnyk of the Lviv University. Mathematics and Mechanics".

Professor Bohdan Zabavsky is the author of more than 100 scientific papers, many scientific and methodological works, including textbooks on linear, general and applied algebra, number theory, coding theory, and cryptology.

*O. D. Artemovych, T. O. Banakh, L. Ye. Bazylevych, M. M. Bokalo,
I. E. Chyzhykov, N. S. Dzhalyuk, V. M. Fedorchuk, A. I. Gatalevych,
I. Yo. Guran, O. V. Gutik, Yu. B. Ishchuk, B. I. Kopytko, M. I. Kuchma,
M. O. Maloid-Glebova, I. O. Melnyk, V. M. Petrychkovych, A. M. Romaniv,
O. M. Romaniv, A. V. Sagan, B. Z. Shavarovskiyi, M. M. Sheremeta,
V. P. Shchedryk, O. B. Skaskiv, O. G. Storozh, M. V. Zabolotskiyi,
M. M. Zarichnyi, V. R. Zelisko*