## ANNIVERSARIES

## 70th anniversary of Doctor of Physical and Mathematical Sciences, Professor Baltabek Kanguzhin



Baltabek Esmatovich Kanguzhin was born on August 22, 1953, in the village of Shukurkol, North Kazakhstan region. He graduated in 1975 from the Faculty of Applied Mathematics of the Kazakh State University named after S.M. Kirov and has been working at the Mechanics and Mathematics Faculty of the Al-Farabi Kazakh National University since then.

From 1979 to 1982, he was a full-time postgraduate student at the Department of Mathematics of the Moscow State University named after M.V. Lomonosov. In 1983, under the supervision of Academician V.A. Sadovnichy, he defended his PhD thesis on "Inverse Problems of Spectral Analysis of Differential Operators" at the Dissertation Council at Moscow State University. In 2005, he defended his Doctoral thesis in "01.01.02 – Differential Equations and Mathematical Physics" at the Al-Farabi Kazakh National University.

Professor Kanguzhin's scientific interests are diverse: transformation formulas and spectral properties of higher-order differential operators on intervals, stochastic analysis. His primary applied research is associated with problems of internal boundary tasks using the methods of function theory. The main courses he teaches include mathematical analysis, geometric methods of mathematical physics, mathematical models of theoretical physics and their analysis, stochastic analysis. One of his main talents is the desire to understand the essence of ideas deeply.

Professor B.E. Kanguzhin established a scientific school in Kazakhstan on the spectral theory of differential operators and its applications. Under his guidance, 13 candidates in physical and mathematical sciences, 3 doctors of physical and mathematical sciences, and 10 PhDs have been defended. He is the chairman of the Dissertation Council in specialties: 6D060100, 8D05401 – Mathematics, 6D070500, 8D06104 – Mathematical and Computer Modeling at the Al-Farabi KazNU.

Over the last ten years, he has been and continues to be the scientific leader of more than 5 international and national funded projects, including those for the identification of defects in mechanical, pipeline, and electrical systems.

Professor Kanguzhin's fundamental research results in spectral theory of differential operators, theory of inverse problems of spectral analysis, main issues of approximation theory, generated from internal boundary tasks in multiply connected areas, theory of pseudodifferential operators, and main methods of complex variable function theory and its applications to solving fundamental mathematical problems have been published in more than 150 scientific works, most of which are in high-ranking international journals. He is the author of two monographs and six excellent textbooks, four of which

are in Russian and two in Kazakh. He is an active member of the editorial board of several scientific publications, such as: Journal of Mathematics, Mechanics and Computer Science, International Journal of Mathematics and Physics, Ufa Mathematical Journal, etc.

In 2002, he was awarded the International Soros-Kazakhstan Prize.

Professor B.E. Kanguzhin successfully combines scientific activity with teaching. He has led the Department of Mathematical Analysis and the Department of Fundamental Mathematics of the Mechanics and Mathematics Faculty of the Al-Farabi KazNU, which was established to strengthen leading mathematical departments such as mathematical analysis, probability theory and functional analysis, as well as geometry, algebra, and mathematical logic. He twice received the state grant "Best University Teacher" of the Republic of Kazakhstan in 2005 and 2012, the chest badge "For Merits in the Development of Science in the Republic of Kazakhstan" of the Ministry of Education and Science of the Republic of Kazakhstan in 2009, and the Y. Altynsarina badge in 2013, which also speaks of his active and fruitful pedagogical activity.

B.E. Kanguzhin has a particular affinity for the academician V.I. Arnold, which is probably why he adheres to his aphorism in working with his students: "A student is not a sack to be filled but a torch to be lit". He has "lit" many young students such as D. Suragan, N. Tokmagambetov, etc., who are now making significant contributions to mathematics.

His numerous friends and colleagues know him as a talented scientist, a respected and responsible employee, a good, reliable friend, and a wonderful family man.

We congratulate Professor Baltabek Esmatovich Kanguzhin on his 70th birthday and wish him further creative achievements, the preservation of activity and inspiration in science and education.

Editorial board of the journal «Bulletin of the Karaganda University. Mathematics series»