ANNIVERSARIES

Professor Yeshkeyev's Life in Science and Logic: Celebrating the Scholar's 70th Anniversary

In the age of digitalisation and rapid technological progress, it is easy to forget that every computer program, every algorithm, and the very structure of our thinking are founded on mathematical logic. In this abstract yet vitally important field, Kazakhstan has its own recognised authority.

In May 2026, Aibat Rafhatovich Yeshkeyev marks his 70th birthday. He is a Doctor of Physical and Mathematical Sciences, Professor, and Professor-Researcher at the Karaganda National Research University named after academician Ye.A. Buketov, a man whose work in model theory has built a bridge between Kazakhstani science and the international academic community.

Born in Karaganda on 17 May 1956, Aibat Rafhatovich has devoted his life to the pursuit of truth through rigorous mathematical reasoning. His academic path is an example of dedication to his vocation and to his alma mater.

A graduate of Karaganda State University in 1978, he quickly moved from teaching to serious research.

A crucial stage was his postgraduate and doctoral studies at the Institute of Mathematics of the Siberian Branch of the Russian Academy of Sciences in Novosibirsk's Akademgorodok, one of the major centres of mathematical thought.

In 1995, he defended his Candidate of Sciences thesis on "Jonsson Theories" at the Institute of Theoretical and Applied Mathematics of the National Academy of Sciences of the Republic of Kazakhstan (Almaty). His supervisor was Professor T. G. Mustafin. In 2010, he defended his doctoral thesis on "The Structure of Perfect Positive Jonsson Theories" at Eurasian National University.

Mathematics is an international science, yet it also includes some of the most demanding and elite areas of research. Model theory, in which Professor Yeshkeyev specialises, is considered one of the most complex and intellectually demanding disciplines. Jonsson theories occupy a special place in his research. Professor Yeshkeyev is a recognised expert on Jonsson theories. His research on the structure of perfect positive theories has become a classic in modern logic.

Aibat Rafhatovich has succeeded in developing and enriching this field by proposing new approaches to the classification of models and the study of their properties.

His international recognition is not merely formal. It is grounded in publications in high-impact journals and presentations at scientific symposia, where his ideas are evaluated by leading experts in the field. He has published over 300 scientific papers, including articles in international peer-reviewed journals indexed in the Web of Science and Scopus databases. His h-index is 14 in Web of Science and 12 in Scopus.

A.R. Yeshkeyev is actively involved in international scientific activities. The results of his research have been presented at scientific conferences and seminars in a number of countries, including France, the United Kingdom, Germany, the Czech Republic, China, South Korea, Turkey, Italy and others. He has delivered plenary lectures at international conferences dedicated to topical issues in model theory.

A.R. Yeshkeyev has led and participated in a number of research and grant-funded projects supported by the Ministry of Education and Science of the Republic of Kazakhstan. He is currently leading a research project dedicated to the study of fragments of definable closures in semantic models of Jonsson theories.

A.R. Yeshkeyev is a member of the Association for Symbolic Logic. He is actively involved in research and teaching, supervising undergraduate, master's, and doctoral theses.

Among international colleagues, the name Yeshkeyev is firmly associated with the "Karaganda School of Logic".

Aibat Rafhatovich's entire professional life has been inextricably linked with Karaganda National Research University. Here, he rose from a young researcher to a professor, becoming a living legend of the faculty.

For the university, he is not merely a theoretical scholar, but also a powerful source of ideas.

Under his leadership, a research school has taken shape, focusing on current issues in model theory and algebraic systems. More than 30 master's theses and 11 PhD dissertations have been completed under his supervision, and the university has strengthened its position as one of the leading centres of mathematical education in Central Asia.

For his contribution to the development of science and education, he has been awarded a number of state and departmental honours, including the badge "For Merit in the Development of Science of the Republic of Kazakhstan", the title "Best University Lecturer" (2016), as well as commemorative medals marking the independence of the Republic of Kazakhstan.

Professor Yeshkeyev's students know that his exam is a serious intellectual test. But behind his outward strictness lies a sincere desire to teach young people the most important thing: a culture of thought. Aibat Rafhatovich is convinced that a mathematician is not merely someone who performs calculations, but someone who performs construct flawless logical chains and see beauty in the rigour of proofs.

At the age of 70, Aibat Rafhatovich retains an enviable capacity for work and a sharp mind. He continues to publish actively, review his colleagues' work, and participate in the life of the scientific community. His life journey is an example of how dedication to a single idea and a single science allows one to reach heights recognised far beyond the borders of one's country.

His anniversary is a celebration not only for his family and colleagues, but for the entire scientific community of Kazakhstan. For as long as scholars of such calibre continue to teach at our universities, we can be confident that the intellectual potential of the country remains in reliable hands.

The staff of the Faculty of Mathematics and Information Technologies
of the Karaganda National Research University named after Academician Ye.A. Buketov
and the editorial board of the journal
"Bulletin of the Karaganda University. Mathematics Series"