On the anniversary of Professor Vasily Ivanovich Vasiliev

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On 2 April 2024, Vasily Ivanovich Vasiliev, Head of the Department of Computational Technologies at the Institute of Mathematics and Informatics of the M.K. Ammosov North-Eastern Federal University, Doctor of Physical and Mathematical Sciences, Professor, turned 75 years old.

After graduating from Yakutsk State University in 1973, Vasily Ivanovich was sent to Novosibirsk State University for a one-year internship. From 1974 to 1980 he worked at the Department of Physics and Mathematics, then at the Department of Mathematics at YSU as an assistant, mathematical programmer, and director of the student computing centre.

From April 1980 to 1991, he worked at the IPTPN SB RAS, where he made his way from junior to leading researcher and member of the Scientific Council of the Institute. In 1983, at the Institute of Mathematics of the AS BSSR he defended his candidate degree thesis on 'Numerical study of non-classical problems of underground gas dynamics'. In April 1992, he returned to the Faculty of Mathematics of YSU. He participated in the establishment of the Research Institute of Applied Mathematics and Informatics at YSU, and until his election as Director of IMIS, he worked part-time as Deputy Director for Scientific Work at RIAMI. In the same year of 1993, a dissertation council for the defence of candidate theses was established at YSU, and V.I. Vasiliev was appointed as its Scientific Secretary.

In 1995, Vasily Ivanovich defended his thesis for the degree of Doctor of Physical and Mathematical Sciences in the speciality 05.13.16 on 'Numerical modelling of heat and mass transfer processes in the cryolithozone' in the AC of SB RAS.

In October 1995, V.I. Vasiliev was elected Dean of the Faculty of Mathematics, in 1996-2014, he headed the Department of Applied Mathematics. In 1999, V.I. Vasiliev was elected Director of the Institute of Mathematics and Informatics of YSU, which was established on the basis of the Faculty of Mathematics on the suggestion of the First President of the Republic of Sakha (Yakutia) M.E. Nikolaev.

In 2003, on the initiative of Vasily Ivanovich, a Dissertation Council for doctoral and candidate dissertations on the speciality 05.13.18 Mathematical Modelling, Numerical Methods and Program Complexes in Physical, Mathematical and Technical Sciences was established at YSU, which has been functioning for more than 20 years.

In May 2004, V.I. Vasiliev was appointed First Vice-Rector of YSU and served in this position until 2010. In 2004-2010, 11 doctoral councils were established at YSU. Many scientific and educational workers were awarded the title "Honoured Worker of Higher Professional Education of the Russian Federation". In 2006, Yakutsk State University celebrated its 50th anniversary in Yakutsk and Moscow. The merits of the university staff were highly appreciated by the President of the Russian Federation V.V. Putin, 18 leading professors and associate professors of the university were awarded state honours. In honour of the University's anniversary, on the initiative of V.I. Vasiliev, up to 50 textbooks and teaching aids of the University's leading professors were published and distributed free of charge to Russian universities by the publishing house "Vuzovskaya Kniga".

In 2006-2007, YSU was one of the forty winners of the federal competition for universities introducing innovative educational programmes. The head of the university commission for project preparation was V.I. Vasiliev. The republican commission was headed by Vice-President E.I. Mikhailova and her team.

In 2009, a republican commission was established to prepare for the reorganisation of YSU into a Federal University and to develop the main competition document - the Development Programme for the Federal University to be created - under the leadership of Vice-President of the RS(Y) E.I. Mikhailova. Vasily Ivanovich was one of the members of this commission. On 2 April 2010, the Russian Government issued a decree on the opening of the M.K. Ammosov North-Eastern Federal University. Vasily Ivanovich was appointed First Vice-Rector for Strategic Direction and Scientific and Innovative Work and as First Vice-Rector he made a certain contribution to the establishment and development of the Federal University.

Vasily Ivanovich Vasiliev is a well-known expert in computational mathematics, mathematical modelling of thermomechanical interaction of engineering structures and buildings with the surrounding environment in the cryolithozone, natural gas field development processes, numerical methods for solving inverse problems. He has published 178 articles, scientific and scientific-methodical works, including 5 monographs, 4 textbooks, supervises postgraduate students.

In 2016, together with Professor of Texas A&M University Yalchin Efendiev, the Department of Computational Technologies of NEFU won a Megagrant of the Government of the Russian Federation in NEFU with the project 'Multiscale model reduction', which was funded for 5 years. Since 2017, thanks to the megagrant, the department has attracted a whole pleiad of leading scientists. The research laboratory created on the basis of the megagrant with the participation of young people, yesterday's graduates and young scientists, has made a great scientific breakthrough in NEFU: 12 dissertations for the degree of Candidate of Physical and Mathematical Sciences have been defended; over 250 articles have been published in scientific editions indexed in Web of Science and Scopus, including over 100 in mathematics. including more than 100 in mathematical journals of the 1st and 2nd quartiles; 10 RSF grants were won, 6 of them were collective grants; 15 international scientific conferences were held in Yakutsk, Moscow, Vladivostok and Sochi. Five young scientists received the State Prize of the Republic of Sakha (Yakutia) for Science and Technology and two prizes for Science and Technology of the State Assembly (Il Tumen) of the Republic of Sakha (Yakutia); young employees of the laboratory spoke at conferences of the leading mathematical centres of the country, in universities of North America, Europe and Asia; 2 young scientists were awarded the grant of the President of the Russian Federation, 3 - the grant of Il Darkhan; four employees of the department are preparing doctoral dissertations. Strong scientific ties with Chinese universities have been established, so under the scientific guidance of Professor V.I. Vasiliev, postgraduate student Sung Linde defended his thesis, in 2024-2025, 3 postgraduate students will complete their postgraduate studies.

Vasily Ivanovich made a great personal contribution to the development of higher school and science in the Republic of Sakha (Yakutia), to the establishment of the Federal University, to the training of specialists with higher education, scientific and scientific-pedagogical personnel of higher qualification.

In 2002 Vasily Ivanovich became a laureate of the State Prize of the Republic of Sakha (Yakutia) in the field of science and technology, in 2006 he was awarded the honorary title 'Honoured Worker of Higher Education of the Russian Federation', in 2013. - 'Honoured Worker of Science of the Republic of Sakha (Yakutia)', he is a holder of the Order of Friendship, awarded the medal of the Ministry of Education and Science of the Russian Federation 'For Irreproachable Labour and Distinction' of the 3rd degree. Vasily Ivanovich also holds the badges 'Honoured Worker of Higher Professional Education of the Russian Federation', 'For Outstanding Contribution to Science of the Republic', and the medal of Academician N.V. Chersky.

On behalf of numerous friends, colleagues, and students, we congratulate Vasily Ivanovich on his 75th birthday and wish him good health, vigour, further success in his work, great scientific achievements, active longevity, and happiness!