

Professor Ye. M. Khabakhpasheva on her 60th birthday



ON 20 FEBRUARY 1985, Professor and Doctor of Technical Sciences, well-known scientist-thermophysicist, Head of Laboratory, Honoured Scientist of the R.S.F.S.R., Yevgeniya Moiseevna Khabakhpasheva, celebrated her 60th birthday.

After graduating in 1949 from the Moscow Power Engineering Institute, Ye. M. Khabakhpasheva joined the Moscow Institute of Engineering Physics where, up to 1962, her scientific and teaching activity was connected with the Chair of Thermophysics. Here she worked her way up from post-graduate student to Assistant Head of the Chair. In 1955 she defended a thesis for the scientific degree of the candidate of technical sciences.

During these years Ye. M. Khabakhpasheva actively participated in investigations of heat transfer to liquid metals. These works revealed the nature of thermal contact resistance and some ways of heat transfer intensification. The results of the investigations were used to develop thermal methods of calculation of liquid-metal-cooled reactors.

Since 1962 Ye. M. Khabakhpasheva has been working at the Institute of Thermophysics of the

Siberian branch of the U.S.S.R. Academy of Sciences as Head of the Laboratory. Here under her guidance investigations have been undertaken on the general laws governing the flow and heat transfer in Newtonian and non-Newtonian (structural-viscous and viscoelastic) liquids.

The experimental methods developed at the Laboratory enabled Professor Khabakhpasheva and her collaborators to thoroughly investigate, for the first time, the structure of turbulent incompressible liquid flows over the thickness of a viscous sublayer and within the maximum density range of turbulent-energy generation. In the course of these investigations new fundamental results were obtained.

These complex experiments, in which the friction and heat transfer coefficients, mean velocity and temperature fields and pulsation characteristics were measured simultaneously, made it possible to find out the reasons for, and the scales of, decreasing the heat transfer intensity in water flows with small additions of high-polymer substances.

Ye. M. Khabakhpasheva has authored and co-authored more than 90 papers and one monograph. In

1971 she defended a thesis for the scientific degree of the Doctor of Technical Sciences. In 1977 she was given the rank of professor.

Professor Khabakhpasheva constantly takes an active part in public activities and does immense scientific and organizing work. She is on the Co-ordination Council of the U.S.S.R. Academy of Sciences responsible for the complex problem 'Thermophysics and Thermoenergetics' and is a member of the Rheology Section Bureau of the Mendeleev All-Union Chemical Society.

Professor Khabakhpasheva is a member of the I.C.H.M.T. Executive Committee, a member of the National Committee for Heat and Mass Transfer of the U.S.S.R. Academy of Sciences and a member of the Soviet Advisory Editorial Board of the journal *Heat Transfer—Soviet Research*.

As a professor, Ye. M. Khabakhpasheva is adviser to a number of post-graduate students at the Novosibirsk State University and at the Institute of Thermophysics, constantly working directly in the training of scientific personnel.

Professor Khabakhpasheva, as a scientist and a personality, has immense authority with specialists in the field of thermophysics and physical hydrodynamics. She is celebrating her 60th birthday in the prime of her creative life.

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