

Alexandr Ivanovich Leontiyev on his 65th birthday



PROFESSOR A. I. Leontiyev, Academician of the Russian Academy of Sciences, doctor of engineering sciences, scholar and researcher, celebrated his 65th birthday in 1992.

The scientific activity of Professor A. I. Leontiyev began in 1950 when, after graduation from the Moscow Aviation Institute, he joined the Krzhizhanskiy Power Engineering Institute. A short time later he completed and defended his candidate thesis. In 1959 A. I. Leontiyev continued his professional career at the Institute for Thermal Physics of the Siberian Branch of the USSR Academy of Sciences where he was elected Head of the Laboratory of Thermogasdynamics, and where in 1962 he defended his doctoral thesis. In 1968 A. I. Leontiyev took charge of the Laboratory for Analytical Methods of Calculating Mass Transfer at the Institute for High Temperatures of the USSR Academy of Sciences. In 1975 A. I. Leontiyev became Professor at the Department of Thermodynamics and Heat Conduction of the Moscow State Technical University and in 1979 headed the Department of Thermogasdynamics and Gas Turbine Engines at the same University. Numerous studies carried out by A. I. Leontiyev in various fields of heat and mass transfer have been recognized both in the Soviet Union and elsewhere. He was the first to discover a significant enhancement of heat transfer in the region of interaction between a compression shock and a boundary layer, to obtain the data concerning the effect of oscillations on heat transfer in the region of a gas curtain and film cooling and to study the effects of turbulent boundary layer laminarization in the region of the nozzle throat.

In cooperation with S. S. Kutateladze, Professor A. I. Leontiyev developed the asymptotic theory of a turbulent boundary layer on the basis of which he suggested the effective techniques for calculating turbulent heat transfer later confirmed experimentally. In subsequent years A. I. Leontiyev extended the boundary layer theory methods to the analysis of heat transfer processes in the channels of MHD installations, steam generating channels, condensers of nuclear power plants, and in heat transfer equipment.

The results obtained by A. I. Leontiyev and his pupils in the field of natural convection and liquid boiling heat transfer are widely quoted. Professor A. I. Leontiyev authored more than 150 papers, four original monographs and five manuals. The monograph *Heat and Mass Transfer in a Turbulent Boundary Layer*, written together with S. S. Kutateladze, has become world-famed.

The distinguished features of Professor Leontiyev's work have always been his striving to employ wide generalizations, set new problems, and to gain a deep insight into the scientific problem.

A. I. Leontiyev is known as an excellent teacher and scientific supervisor. He never forces his ideas and viewpoints on his students, but to the contrary, in every possible way supports original and independent ways of thinking in his pupils. Willingly and generously sharing his rich knowledge and experience with young scientific workers, Professor Leontiyev attracts their attention to the solution of the most typical problems that offer new challenges in science and technology. He has been scientific advisor for 100 completed candidate and 15 doctoral theses. His

outstanding achievements in the field of heat transfer found recognition in his election in 1987 as Corresponding Member, and in 1991 a Full Member, of the Russian Academy of Sciences.

A. I. Leontiyev successfully combines his strenuous service to science with fruitful teaching activity. From 1953 up to 1959 he was an Assistant Professor of the Heat Engineering Department at the Moscow Wood Technology Institute, from 1959 an Assistant Professor and from 1963 a Professor and Head of the Heat Engineering Department at the Novosibirsk University. From 1975 A. I. Leontiyev has been Professor of the Moscow State Technical University.

Professor A. I. Leontiyev has been very active in scientific administrative work. He is Chairman of the Heat and Mass Transfer Section of the Scientific Council of the Russian Academy of Sciences for the

complex problem "Thermophysics", Deputy Chairman of the Russian National Committee for Heat and Mass Transfer, a member of the Executive Committee of the International Centre for Heat and Mass Transfer, Editorial Board Member of a number of international journals, one of the founders of the International Heat and Mass Transfer Centre, an unfailing participant of numerous international conferences. While attending to all of these important duties, A. I. Leontiyev has always been a man of principle, exacting, but very benevolent.

On the occasion of his 65th birthday, we sincerely and cordially wish him good health, happiness and more years of successful creative accomplishments.

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