

MEN OF SOVIET SCIENCE

S. S. KUTATELADZE — WINNER OF THE MAX JACOB INTERNATIONAL AWARD



The Max Jacob International Award has been presented to Samson Semenovich Kutateladze, who is a Corresponding Member of the Academy of Sciences of the USSR and the Director of the Institute of Thermal Physics of the Siberian Branch of the Academy of Sciences of the USSR. The Max Jacob Award is given for distinguished contributions to the theory of heat. It was established in 1961 by the American Society of Mechanical Engineers and the American Institute of Chemical Engineers, and is presented annually to one scientist.

The Award was presented on August 31, 1970, at a plenary session of the Fourth International Conference on Heat Transfer in Paris.

Samson Semenovich Kutateladze is a world-famous figure. He has made important contributions to the development of the theory of heat transfer during changes in the aggregate state of matter, to the hydraulics of gas-liquid systems, to the study of liquid metal coolants, and to the theory of turbulent boundary layers.

During 1946-1959 he developed the hydrodynamics of heat-transfer crises in boiling liquids, and considered a number of problems in the hydrodynamics of two-phase flows.

Between 1950 and 1964 S. S. Kutateladze developed a theory of the turbulent boundary layer with vanishing viscosity, which had led to new results on the effect of the pressure gradient, diffusion, and compressibility on friction and heat transfer.

The chief results of these studies were generalized in the monographs "Heat Transfer during Changes in the Aggregate State of Materials" (1939), "Heat Transfer during Condensation and Boiling" (1949, 1952),

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"Fundamentals of the Theory of Heat Transfer" (1954, 1957, 1962, 1970), "Liquid-Metal Coolants" (1958, 1967), "Hydraulics of Gas-Liquid Systems" (1958), "The Turbulent Boundary Layer of a Compressed Gas" (1962), "Lectures on Wall Turbulence" (1970), and so on. Some of these monographs have been translated and published in the USA, England, France, Yugoslavia, and Japan.

S. S. Kutateladze played an important role in the setting up of the Institute of Thermal Physics of the Siberian Branch of the Academy of Sciences of the USSR. He has carried out major teaching and editorial work and is in charge of the Department of Thermal Physics of the Novosibirsk State University. He has directed the work of more than 50 doctoral and other postgraduate candidates.

S. S. Kutateladze is a member of the editorial board of "Prikladaya Mekhanika i Tekhnicheskaya Fizika," "Inzhenerno-Fizicheskii Zhurnal," "Teoreticheskie Osnovy Khimicheskoi Tekhnologii," and of the international journal, "Heat and Mass Transfer."

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