

## OBITUARY

VALENTIN SEMENOVICH ZHUKOVSKII

M. A. Styrikovich, V. M. Borishanskii, M. D. Vaisman,  
A. A. Gukhman, M. E. Deich, S. S. Zabrodskii,  
L. M. Zysina, S. S. Kutateladze, L. G. Loitsyanskii,  
G. A. Mikhailovskii, D. F. Peterson, K. I. Reznikovich,  
B. M. Smol'skii, V. V. Fisenko, and A. G. Shashkov



Valentin Semenovich Zhukovskii died on July 30, 1975, after a serious illness; he was a leading Soviet scientist, professor, and Doctor of Technical Sciences.

He was born on October 5, 1902, and in 1926 he graduated from the Leningrad Polytechnic Institute and was directed to teaching work. At the same time, he worked as a member of the scientific staff in the Division of Heat Engineering at the Leningrad Technical Physics Laboratory (afterwards the Polzunov Central Boiler and Turbine Institute). The basis of Soviet physical heat engineering was being laid at that time, and he took a very active part in it. In 1941, while retaining his links with the Polzunov Institute, he transferred from Leningrad Polytechnic Institute to the Dzerzhinskii Higher Naval-Engineering College, where for more than 30 years he headed the Department of the Theoretical Principles of Heat Engineering.

His scientific researches dealt with a wide range of problems in heat engineering, and these involved not only a deep insight into the physical essence of the phenomena but also characteristic care in formulating experiments and making early use of the latest experimental methods. Major studies of industrial significance made with his active participation involved the flow elements in turbines, and these were carried out after the war in the Technical Physics Division of the Polzunov Institute under his direction. His experience led him to organize many major researches, while his detailed understanding of the limitations of even the best techniques and his extensive reading meant that these researches had exceptional scientific and practical value.

From the time when he graduated from the Institute, he had always taught in higher teaching institutions. His book "The Physical Principles of Heat Transfer" became extremely popular and was published in two editions in 1960 and 1969. A particular place in his teach-

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ing activities was taken by engineering thermodynamics, to which he devoted many years of effort. The first edition of his textbook on this subject appeared in 1934, with the second in 1940 and the third in 1954. The book has been widely utilized and made him famous.

He also devoted much time and effort to training scientific workers; many PhD and DSc theses were presented under his direction.

In addition, he devoted much effort to organizing and directing the standing Leningrad and Intercollegiate Seminar on the Theoretical Principles of Heat Engineering, while, in addition, he was a member of the organizing committees of many All-Union Conferences and seminars on heat transfer.

His activities were highly valued by the Soviet Government, and he was awarded the Order of Lenin, a medal for meritorious labor, and so on.

As an outstanding scientist and teacher, he left an exceptional impression on all who knew him. His cordiality and helpfulness were, however, always accompanied by strict adherence to scientific principle.

Everyone who knew Professor Zhukovskii will long remember him as an outstanding colleague and friend.