

OBITUARY

YUVENALII ANEMPODISTOVICH KIRICHENKO



On March 17, 1991, famous Soviet thermal physicist and Laureate of the State Prize, Doctor of Technical Sciences Yuvenalii Anempodistovich Kirichenko died after a serious illness at age of 62.

After graduating in 1954 from Khar'kov State University Yu. A. Kirichenko began work at the Khar'kov Institute of Measurements and Measuring Instruments in 1956-1962 he worked at the All-Union Scientific Research Institute of Metrology in Leningrad. There he developed a new method and instruments for high-accuracy measurement of thermal conductivity of solids in a wide temperature range. His Candidate's dissertation, which he defended in 1962, was based on these developments.

From 1962 and for the rest of his life Yu. A. Kirichenko worked as a department head at the Physicotechnical Institute of Low Temperatures of the Ukrainian Academy of Sciences in Khar'kov. He initiated a new scientific movement in the USSR - heat exchange in cryogenic solutions under mass forces of different intensities. Yu. A. Kirichenko developed an original zero-gravity simulator for laboratory study of boiling and for the first time completed an investigation of the influence of lowered gravity on the dynamics of steam and gas bubbles and heat exchange characteristics. The results of these works were collected into his Doctoral dissertation defended in 1974.

Under Yu. A. Kirichenko's guidance original experiments in heat exchange under high centrifugal forces were conducted and research in thermal processes of cooling high temperature superconductors (HTSC) using cryogenic solutions was completed. Yuvenalii Anempodistovich headed three successfully completed State projects on HTSC. They were the first to obtain results on heat exchange between HTSC and cryogenes. These results are very valuable for the development of the superconductor industry.

Important scientific achievements were attained under Yu. A. Kirichenko's guidance in the fields of physics of boiling, heat exchange in boiling cryogenic solutions in free and forced motion, and also heat exchange in cryogenic solutions stored in sealed containers.

Wide scientific horizons and investigative intuition allowed Yuvenalii Anempodistovich to become so successful in the new fields of thermophysics and thermotechnics. His scientific works are contained in four monographs and numerous publications. He authored 13 inventions.

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Yu. A. Kirichenko established the scientific school of cryogenic heat exchange in the Ukraine. There are 12 candidates among his students. In 1985 for complex research in thermal processes under specific conditions he won the State Prize. For his scientific and social activities he was awarded the order "Badge of Honor".

Being a prominent specialist, man of high culture, modesty, and kindness, he gained great respect and authority. The bright memory of Yuvenalii Anempodistovich Kirichenko will remain forever in the hearts of his students and colleagues.

Editorial Board