

## OBITUARY

### VLADIMIR NIKOLAEVICH LOMBARDO

Vladimir Nikolaevich Lombardo, talented scientist, prominent specialist in the area of theoretical investigations of hydraulic structures, doctor of technical sciences, director of the laboratory of limit states of structures of the research department of All-Union Planning, Surveying, and Scientific-Research Institute (Gidroproekt), died suddenly on October 25, 1987 at the peak of his creative abilities.

V. N. Lombardo was born on April 16, 1934 in Moscow. Having been graduated with honors from the Semipalatinsk Hydrotechnical Amelioration Secondary School and then the Moscow Civil Engineering Institute (MISI), in 1959 he went to the construction site of the Bratsk hydroelectric station, where he covered the path from senior technician to group leader. Beginning in 1962 he studied for his candidate degree and worked at the department of hydraulic structures of MISI. After defending his candidate dissertation in 1967 and until the last days of his life Vladimir Nikolaevich worked in the research department of Gidroproekt.

The scientific activities of V. N. Lombardo at the research department of Gidroproekt were related to the development of methods of theoretical investigations of concrete and earth structures of hydro developments. Vladimir Nikolaevich discovered new directions in the field of mathematical modeling of the stress-strain state and stability of structures with consideration of the real geomechanical properties of materials and opening of section and block joints under conditions of the elastic and plastic states of such structures as dams, embankments, and locks.

The methods of calculation and algorithms developed by him are distinguished by the breadth of consideration of real physical processes occurring in hydropower structure during the construction and operating periods and do not have equals in world practice. Substantiation of the designs of the largest Soviet and foreign hydro developments (Toktogul, Kurpsai, Chirkey, Inguri, Nurek, Rogun, Katun, Hoa-Binh, etc.) being constructed in seismically active regions was given on their basis.

Vladimir Nikolaevich is the author of two monographs and 65 scientific articles, his papers have been repeatedly published in the proceedings of international congresses and symposia. He was a regular author of our journal. The scientific achievements of Vladimir Nikolaevich actively serve and will serve for many more years the development of hydrotechnical construction.

Vladimir Nikolaevich was an active member of the academic council of the research department of Gidroproekt and headed the section of concrete hydraulic structures and designs of this council, was a member of the permanent commission on earthquake engineering of the Interdepartment Council on Seismology and Aseismic Construction of the Academy of Sciences of the USSR, and a member of the specialized council on awarding the academic degree of candidate of technical sciences in the specialty "hydraulic structures" at the All-Union Scientific-Research Institute of Water Supply, Sewerage, Hydraulic Structures, and Engineering Hydrogeology. In 1984 he was conferred the title of laureate of the prize of the USSR Council of Ministers for developing the theoretical principles of designing hydraulic structures in seismically active regions.

The great talent, high capacity of work, profound knowledge, modesty, responsiveness, benevolence, and kindness of Vladimir Nikolaevich Lombardo won him the deserved authority and love of colleagues.

The bright memory of Vladimir Nikolaevich Lombardo will remain forever in our hearts.