

O. A. Chaplits

Oles Honchar Dnepropetrovsk National University

**EDUCATIONAL AND RESEARCH LINK OF
V. M. KOVTUNENKO' SCHOOL IN DNEPROPETROVSK UNIVERSITY**

To the 45th anniversary of the department of aerohydrodynamics (AGM)

Abstract

The author in the article introduces the period of activity of the outstanding scientist and designer of rocket and space technology V. M. Kovtunenکو in Dnepropetrovsk State University from 1953 to 1977.

The collective representing the *educational-research link* of the V. M. Kovtunenکو' school was described, the problems of its research were considered. V. M. Kovtunenکو created a collective in Dnepropetrovsk University, in which, under his leadership, the educational and scientific direction «Aerodynamics of high-speed aircraft» was formed.

This collective has become an important component of the scientific and design school of an outstanding scientist and designer. A characteristic feature of V. M. Kovtunenکو was the breadth of his scientific interests. V. M. Kovtunenکو was the first of domestic scientists to solve the problem of the shape of an axisymmetric body of minimum resistance at supersonic speeds. The shape of the forming body of the minimum resistance turned out to be close to a blunted cone, which became a classical form of the payload units later. By this, the scientist founded a new scientific direction to determine the optimal forms of bodies in the flow of liquid and gas.

In 1969, he created and headed the department of aerohydrodynamics (AGM), where the collective worked created by him. Here Vyacheslav Mikhailovich brought a high level of exactingness and strictness to scientific products and at the same time a style of exceptional kindness and decency in the relationship, which is preserved at the department now. Under the guidance of V. M. Kovtunenکو, research work at the department developed mainly in the direction of research of complex aerodynamics of the long-range missile' payload units, studying the payload unit as the main aerodynamic structure of the aircraft.

The article described the main directions of scientific research of the AGM department, as well as the peculiarities and methods of V. M. Kovtunenکو's work with his colleagues and teachers.

The article also told about the work of the AGM department after V. M. Kovtunenکو' departure in the NPO Lavochkin, about those projects that were carried out jointly by the department and NPO Lavochkin at that time.

Representatives of the V. M. Kovtunenکو School were identified at Dnepropetrovsk University, it was briefly told about the activities of some of them.

It is shown what areas of activity laid by V. M. Kovtunenکو at the department continue to develop now, and who of his followers and disciples works in what area of knowledge.

In the end the conclusions are drawn that the educational and research unit of the scientific and design school of V. M. Kovtunenکو continues to develop, changing the areas of research in accordance with the requirements of the time.

Keywords: V. M. Kovtunenکو, Dnepropetrovsk University, Department of aerohydrodynamics, aerodynamics, aircraft, space.

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