

## **From the editorial board.**

In the situation that occurs in Ukraine in many spheres of scientific life and the organization of the educational process in the system of national education in the high school, in the system of training specialists in the field of fundamental and applied sciences, the teaching of the history of science and technology becomes problematic. At the same time, Ukraine has a valuable experience in teaching and organizing scientific research on the history of science and technology in higher education institutions. Continuing the course adopted by the editorial board on the publication (at the invitation of the editorial board) of the articles of famous scientists on the actual problems of the history of science and technology and its teaching, we present the article of the Doctor of Historical Sciences, Professor Leonid Mikhailovich Bysov, the first head first in the history of independent Ukraine of the Department of History of Science and Technology of the National Technical University of Ukraine, "Kharkiv Polytechnic Institute", dedicated to the mentioned problem.

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### **HUMANITARIAN COMPONENT OF TRAINING SPECIALISTS IN HIGHER TECHNICAL INSTITUTIONS (the experience of the National Technical University «Kharkiv Polytechnic Institute»)**

#### **Abstract**

The aim of the article is to disclose the role of the humanitarian component of training a specialist in a higher education institution of a technical profile. This goal is realized through the disclosure of a number of courses of historical, technical and historical-scientific orientation in the educational process of the National Technical University "Kharkiv Polytechnic Institute".

Implementation of such a program in NTU "KhPI" began more than a quarter of a century ago. The training program was formed in such a way that, on the one hand, it would give the future engineer advanced specialized knowledge, integrating the content of the course into basic and applied sciences, and promoting the introduction of any specialty into the system of world culture. On the other - in a certain way influence the humanitarian content of the activities of the future specialist.

The vice-rector for academic work, then the rector of NTU "KhPI", Doctor of Technical Sciences, Professor, Honored Worker of Science and Technology, now a Corresponding Member of the National Academy of Sciences of Ukraine, L. L. Tovazhnyansky was an innovator of this process in NTU "KHPI"

This process developed systematically. The Department of the History of Science and Technology was established - the only one in Ukraine. Postgraduate and doctoral studies were opened in the specialty "History of Science and Technology", a council for the protection of candidate and doctoral dissertations, a specialized journal on the history of science and technology was created. A number of relevant textbooks and teaching aids were created and published, a set of curricula was developed.

Creative cooperation (training of highly qualified personnel, organization of scientific conferences, participation of staff in the work of specialized councils, implementation of planned research topics, etc.) was most fruitfully manifested in cooperation with Center for the Study of Potential and History of Science name of the G. M. Dobrov of the NAS of Ukraine, with Department "Innovative Research Potential" IPMash them. FM Podgorny National Academy of Sciences of Ukraine, VN Karazin Kharkiv National University, Oles Honchar Dnepropetrovsk National University, National University "Lviv Polytechnic", National Agricultural Library of the Ministry of Agrarian Policy of Ukraine. The experience of the organization of teaching and research work in the field of the history of science and technology was summarized in 2007 in the report of L. L. Tovazhnyansky at the plenary session of the International Association of Academies of Sciences of the CIS countries.

The Department of the History of Science and Technology, together with the Departments of Philosophy, Culturology, Sociology and Law, developed educational programs of the educational and qualification level "Master" in the specialty "History of Science and Technology". There was training for licensing this specialty. The complex of prepared programs in 2009 included: "World History"; "Science and technology in the history of society"; "History of Europe: an educational and scientific space"; "History of Ukrainian science"; "Scientific schools and centers"; "Concepts of modern natural science"; "History of Informatics"; "History of Mechanics"; "History of Chemistry"; "The logic of technology"; "Sociology of knowledge and science"; "Fundamentals of scientific research."

However, the further development of events in the system of higher national education testifies: in recent years a course has been taken to curtail this direction. In a number of Ukrainian universities, the course of the history of science and technology is excluded from training programs. The number of specialized councils for defending dissertations of this direction has been reduced. The training of highly qualified personnel, etc., is curtailing.

The history of science and technology in the national higher school should remain an important component of the training of highly skilled specialists in science and technology. In addition to many important functions for her, her forms the realization that all the discoveries of the present are based on the foundation erected by many generations of scientists and engineers. The history of science and technology can enrich the discipline "History of Ukraine", the content of which is revised according to the development of the political realities of today.

**Keywords:**

history, science, technology, academic discipline, humanization, research work.

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