

U.D.C. 001.89:378;057.4



GUTNYK

Maryna V.,

PhD in History,

Associate Professor, Associate Professor
of History of Science and Technology of
National Technical University “Kharkiv
Polytechnic Institute”

gutnyk_m@ukr.net

(Kharkiv)

**STARTING OF SCIENTIFIC STUDIES IN TECHNICAL SCIENCES AT
THE KHARKOV PRACTICAL TECHNOLOGICAL INSTITUTE (BY THE
EXAMPLE OF SCIENTIFIC ACHIEVEMENTS OF P. MUKHACHOV)**

Summary

Scientific, educational and organizational work by Peter Mukhachov – one of the leading scientists in the late XIX – at the beginning of XX centuries, which made a significant contribution to the establishment of new scientific studies at the Kharkov practical Institute of Technology are considered. The purpose of the article is to clarify some data from the biography of the scientist. Accents on the personal qualities of the scientist and innovator that will help to form an integral view of the scientifically-pedagogical and organizational achievements by P. Muhachov are placed.

The paper describes the family of the future scientist and his childhood. It is shown becoming of P. Muhachov as a specialist in engineering. In particular, facts about his work as mechanic at factories in Nizhny Tagil are presented. The attention on his first trying of teaching is focused.

New stage of P. Muhachov’s various works began at the Kharkov practical Institute of Technology (from 1898 KhTI). At this higher technical institution, he not only taught basic subjects, but also he has developed and published several own courses and monographs. In particular, he published the unique work “Theory and design of locomotives for conventional broad-ways” (1895). The results of his scientific research became the basis for writing several books from equipment of factories, including “Blower machines and ventilators” and “Machines of

metallurgical industries” (1899). Exactly in this period he was admitted as a leading expert in the field of locomotive building.

Foreign experience of P. Muhachov is considered. The list of countries in which the Professor was on mission with academic tasks is presented. Due to detailed reporting that was given after business trips, it is shown, how work in industrial plants abroad was organized, and comparative analysis of the companies of that time Russian empire was made.

In addition, the article highlights the organizational activities by Professor P. Muhachov, including as secretary of the Educational Committee and the first elected director of KhTI. Difficulties with which he was to clash as a new director are shown, and also the information about the personal tragedy in the family of Mukhachev is given.

Based on the introduction of archival documents, that have not previously been published, to the scientific use the biography of leading scientist and engineer was specified. The information in relation to the maintenance of memory about P. Muhachov also is presented.

Keywords: *Kharkiv Practical Technological Institute, P. Mukhachov, director of KhTI, engineering sciences, steam-locomotive building in Ukraine.*