

Zinaida Chervanyova

An extended abstract of the paper on the subject of:
**“Development of preparing of make-concurrenting
specialists in the technical university”**

Formulation of the problem. *The acceleration of technological progress and carrying out the reforms are impossible without highly qualified personnel, who must have high knowledge in the chosen specialty, organizational skills, initiative and creativity etc. These qualities are intended to form the Graduate School. The scope and depth of past and future scientific and technological changes make us seriously think about changing priorities of training an engineering personnel in a technical college.*

The purpose of this article is to analyze the trends and direction of training of future technical specialists (engineers), who are designed to carry out new functions in modern industry that both education and specialists become competitive and in demand.

An analysis of previous researches. *Many scientists search the solution of preparation of the competitive expert, who combines deep professional and socio-economic knowledge, in Ukraine. Among them there is well-known methodologist of higher education I.Prokopenko (he considered the national doctrine of modernization of education in Ukraine), A. Romanovsky (he created the concept of preparing a new type of specialist, or the new generation - the engineer as production leader), G. Shchekin (he thinks that dominant educational process of future specialists is humanitarian, humanistic, cultural training). A.Kirsanov (he works on the establishment of the concept of engineering pedagogy and on the drawing an appropriate glossary of terms), Z Chervaneva (she is considering the different aspects of psycho-pedagogical training of future specialists). In the scientific literature, many of the issues, that related to the preparation of the competitive expert, are reviewed, but much remain to be explored, especially in the specific conditions of Technical University.*

The presentation material. *For the preparation of the competitive expert is necessary to improve the education system, including technical education. It should be based on the most advanced technical facilities. Instead of learning using "dead" technique - learning interaction in the system "man-machine-social progress" - education should be flexible, sufficiently multipurpose and be continuously updated.*

Training in a technical college involves clarifying the objectives, contents, methods and forms of education. We need active forms and methods of teaching, the decisive transition from memory school to school thinking - art school, school of high professionalism. These may be exercises, debates, heuristic conversation, workshops, discussions and so on.

Training in a technical college is carried out both in theoretical and in practical terms and in formation professional skills. Practical professional training should be closely linked to science and the very latest production, it should have an innovative character.

The degree of functional improvement of specialists essentially depends on how organically knowledge of technocratic and humanitarian character are connected. It is known that the humanities promote the comprehensive development of the student as an individual, the formation of his world view, they make it possible to determine the priorities in student's life, to form his own value system and to find his place in life.

Conclusions and offers *1. Modern production and society need new technical specialists, who would fit into a system of "specialist- technician -social progress", who is able to bring development to the state of the innovative product that satisfies a certain demand on the market for goods and services. 2. In accordance with this new challenge the way of training of future specialists, who had already formed in particular, in NTU "KPI", is changing. It is in organic switching cycles of humanitarian and economic disciplines to outline the formation of a technician, while the traditional polytechnic university level of professionalism is maintaining.*

3. Nowadays, our engineering students - experts of tomorrow - should be equally armed with the latest knowledge, to master advanced techniques and technology, have high scientific and human culture, a new type of economic thinking, initiative and enterprise to take its rightful place in the labor market.