The experience and teaching innovations in education at the Universities of Siberia

Victor V. Pokasov
Physical-Technical Faculty, Novosibirsk State Technical University, K. Marks 20, Novosibirsk, 630092 Russia
telephone: +7(3832)460835; fax: +7(3832)301441; e-mail: vpokasov@ngs.ru

Abstract: The experience and teaching innovations of the education and preparation young specialists for science and industrial enterprises is generalized in this report as a results of joint work of Tomsk's and Novosibirsk's universities and academy institutes. The problem of quality of education is considered by us a major one.

©2003 Optical Society of America

OCIS codes: (000.2060) Education; (140.3460) Lasers

Summary

Concept the quality of education certainly should include not only formal parameters of mastering of educational subjects, but also such aspects, which concern to quality of life of the man as social individual.

The qualitative education should promote comfortable existence of the peoples in a society. The first productive attempt to estimate quality of education in Novosibirsk Technical University (NSTU) was made in 1999.

In the Soviet period in Russia the youth had advanced motivation to professional training on directions of engineering and scientific work. For reception of practical skills the students of the senior rates were directed on industrial practice to institutes of the Academy of sciences and on the industrial enterprises. Scientists willingly participated in professional training of the students. Here there were problems and successful decisions.

Now motivation at youth to professional orientation to physical-technical directions sharply has decreased.

The new decision was found on ways of integration of potential both academic institutes and universities. The branches of faculties of university are open in the academic institutes.

For the first time in Russia was open Novosibirsk SPIE Student Chapter.

Training centre of Laser systems and technologies headed by the author, has united on integration principles four profile faculties of university and laboratory of eight academic institutes of the Siberian branch of Russian Akademy of science. It has given new quality to all cycle of training of the students and preparation of the specialists of high qualification.

In this time really importantly to have closer international cooperation in sphere of education. Such opportunities we would like to discuss at the conference.