

The U.S.S.R. has mobilized science for the state and its purposes with the terrible objective of ultimate domination of all mankind. In the economic field it is engaged in an industrial revolution which aspires in six more years to equal the industrial production of the United States. Education is subordinated to the will of the state, and to that end the universities of the U.S.S.R. are directing their course to a maximum and mass production of graduates in engineering and applied science. We are told that the numbers graduated in the U.S.S.R. this year in these fields will exceed those in all the universities of the Free World.

Not only are the Soviets turning out the scientists but technicians as well who are so important and who must have played a large part in the launching of the artificial moon. According to an American authority who has made a close study of Russian education, there are 2000 "techikums" in the Soviet Union scientific vocational training colleges where two and a half and four-year courses are given to 2,500,000 students.

Can free men not achieve as much? What has been achieved by the U.S.S.R. has been brought about by a frightful subordination of scientific study to state purposes which only a totalitarian state would undertake. The Free World must not copy the Russian methods but must realize that what is taking place is a challenge to the Free World which dare not fall behind in the race for technological supremacy.

While the universities of the Western World should not make materialism their guiding principle, they must plan to make provision for the encouragement of a material increase in the numbers of undergraduates who, having the ability, will enter engineering and applied science courses. Survival demands planning to that end without delay.

I mentioned earlier that the achievement of the space satellite is a challenge to universities. It is far more than that. In the Soviet Union all the resources of the state, both human and material, are used by the state for the purpose of the state. The sky is the limit for expenditure on such objectives which the Kremlin determines on as of primary importance regardless of the effect on the living standards of the people. While the Free World dare not adopt these principles I believe that the leaders of the free nations must co-operate in making available to scientists larger financial resources so that scientists of the Free World will not be fettered by improvident considerations of false economy when weighed on the scales of survival.

An increase in the number of graduates in science and engineering should not be attained by the sacrifice in any way of the social studies which contribute to a full, meaningful, and responsible life.