

Traditions of development and modern problems of technical sciences

Dmitry Ivanov VLADIMIROVICH, The Volga State University of Technology,
Moscow, Russian Federation

WFEO

The entire technical and technological progress of the last century and the rapid change of the life of society are based on the use of scientific achievements and engineering developments.

Engineering sciences together with education and production are the drivers of the socio-economic development of civilization.

Russia has deep and bright traditions in engineering.

The Russian Technical Society, the 150th anniversary of which the Russian Union of Scientific and Engineering Associations (RUSEA) solemnly celebrated in 2016, had a significant impact on the development of technology, industry and technical education in Russia.

Scientific and technical societies engaged in the promotion of science and technology, assisted engineers and workers in improving their scientific and technical knowledge, strengthened communication with the Academy of Sciences.

Academician A.Yu. Ishlinsky, being the Chairman of the RUSEA, for 5 years headed the WFEO.

Russia is historically one of the world's scientific powers: domestic scientific and engineering schools effectively solved the tasks of socio-economic development and security of the country, made a significant contribution to the accumulation of scientific knowledge and the creation of advanced technologies by mankind.

Engineers should develop such technologies, the introduction of which will not cause a degradation of nature or an increase in the poverty of the population, will not increase the level of danger of a city, country, or civilization. In their activities, they should be guided by the following goals: improving the quality of life; energy savings; equal opportunity for all people to enjoy the benefits of the environment; equitable access of the entire population to limited resources; biodiversity conservation, which is correlated with the UN adopted action plan to achieve 17 sustainable development goals for the period up to 2030.

RUSEA also widely involves young and already accomplished scientists and specialists in the process of innovative development of the country.