

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)

Enabling The Future – Developing the Project Management and the Technical Space Workforce (3)

Author: Mr. A.V. Novikov
Yuzhnoye State Design Office, Ukraine

Dr. Oleg Ventskovsky
Yuzhnoye SDO European Representation, Belgium
Mr. Alexander Degtyarev
Yuzhnoye SDO European Representation, Ukraine
Prof. Olexandr Petrenko
Dniepropetrovsk National University, Ukraine
Dr. Arnold Sterenharz
ECM, Germany

EXPERIENCE AND FUTURE PROSPECTS FOR INTERNATIONAL COOPERATION OF
UNIVERSITIES WITH INDUSTRIAL ORGANIZATIONS AIMED TO AEROSPACE EDUCATION
DEVELOPMENT UNDER TEMPUS EUROPEAN PROGRAM

Abstract

The number of countries making their contribution to space technologies development is increasing. Taking into consideration achievements in various fields of knowledge, new approaches to development, design, production, and testing of space systems are created. To ensure an up-to-date educational level of experts engaged in space industry, it is necessary to pay a continuative attention to development of the aerospace educational system, notably to create new specialties, to launch new educational programs and to work out study guides, as well as to modernize equipment for university laboratories etc. The long-term cooperation of Yuzhnoye with Dnepropetrovsk National University (DNU) aimed to training of experts is a successful example of integration of science, industry and education, while leading scientists and industry experts actively participate in training process, and teachers and students of the university are involved in solving topical scientific and technical problems. The report represents analysis of experience and results of Yuzhnoye and DNU cooperation. The other good example of aerospace education development, which is worth studying and distribution, is cooperation of 11 leading universities of Ukraine, Russia, Kazakhstan, Germany, Belgium, and the Netherlands under Tempus European program (2009-2011). The project is intended for implementation of newly developed curricula, focusing on microsatellites development (on the basis of the advanced technologies of Berlin Technical University) and aerospace management, in the universities of Ukraine, Russia, and Kazakhstan. The report presents analysis of the results and prospects for future cooperation of Ukrainian, Russian, Kazakh and European universities.