

IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)
New Worlds - Non-Traditional Space Education and Outreach (7)

Author: Mr. Sergey Samburov
Rocket-Space Corporation Energia, Russian Federation

Mr. Oleg Artemyev
Yu.A. Gagarin Research and Test Cosmonaut Training Center, Russian Federation

Mr. Sergey Emelianov
University, Russian Federation

Mrs. Tatiana Kolmykova
University, Russian Federation

THE EXPERIMENTS FOR YOUTH SPACE EDUCATION ABOARD ISS RS

Abstract

Necessity to educate young people in space area worldwide is obvious. There is a various kinds of training. To educate young generation by involving the crew members aboard ISS is the most interesting and significant one. ISS program includes the space education project for youth. It consists of a number of space experiments and the ISS crew dialogue with the students and schoolchildren via ham radio. Some extracts of the lessons are available at WWW.RS0ISS.RU. The ham radio frequencies allow to held communication sessions and the real time experiments directly from university or school. The section Education and popularization of space researches was established within the frames of the ROSCOSMOS research program. Space education for youth foresees the students and schoolchildren participation in space experiments such as RADIOSKAF, About Gagarin from Space, INTER MAI-75, MGTU-PARUS and etc. All experiments are of great interest for the youth education. The young people worldwide can take part in most experiments directly. The most interesting experiments are covered by this report: 1. RADIOSKAF deals with the small satellite designing, manufacturing and launch during EVA under the program of space education for youth. I mean KEDR (The KEDR experiment was reported at IAC in 2012), Russian-Peruvian satellite CHASKI, SUIT-SAT, Tomsk-TPU, TANUSHA-SWSU and etc. 2. About Gagarin from Space deals with transmission of textual, voice data transmission as well as digital images via ham radio to promote the space achievements and the astronautics popularization. 3. INTER MAI-75 deals with study of the real time video data transmission/receiving via ham radio, including digital images, by the public user terminals as well as the different users of aerospace education system. The experiment video is available at <http://www.amsat.org/amsat/ariss/SSTV> 4. MGTU-PARUS deals with deployment of frameless thin filmed structure from super small spacecraft. 5. The great beginning 6. Physics and education 7. Chemistry and education 8. Ecology and education