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SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)
On Track - Undergraduate Space Education (3)

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SPACE RESEARCH EDUCATION ACTIVITIES IN THE SPACE DOSIMETRY GROUP OF THE
MTA CENTRE FOR ENERGY RESEARCH

Abstract

The Space Dosimetry Group of the MTA Centre for Energy Research has a long heritage in Hungary in designing and developing cosmic radiation and space dosimetry instruments. In the last few years the research group started to organize lectures and special education courses on space research activities and cosmic radiation for university students. It is generally a problem in Hungary that only a few space research related courses are available at the universities no aerospace related qualification can be obtained in the country. The Space Dosimetry Group in collaboration with the Education Office of the European Space Agency (ESA) supports Hungarian university student teams to participate in the educational projects of the ESA, such as the REXUS/BEXUS (Rocket and Balloon Experiments for University Students) and ESEO (European Student Earth Orbiter). In the frame of this cooperation two successful experiments have been already carried out on BEXUS stratospheric student balloons (the CoCoRAD on board BEXUS-12 in 2011 and the TECHDOSE experiment on board BEXUS-14 in 2012). The REM-RED experiment for the REXUS-17 sounding rocket has been also finished; launch is expected in March 2015. The students are participating also in the ESEO student satellite project to design and develop a satellite version of the silicon detector telescope system TRITEL. The present paper addresses the general overview of these student-made projects and provides a brief description of the space related educational activities at the MTA Centre for Energy Research.