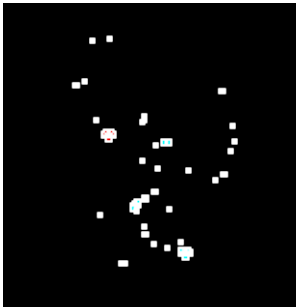


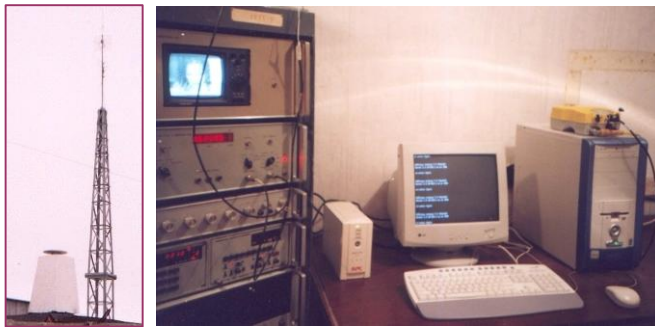
Network of laser-location stations of the Ministry of education and science of Ukraine for observing the man-made Earth satellites



SMC “ORION” is a state organization of academic function which is a separate scientific department of DonSTU.

Center has multi-years experience of carrying out scientific researches and performing the developments in the field of radio-physics, quantum electronics, laser technic, electronics. Great attention is paid to the investigations and researches of laser location of space objects, as well as GPS technologies.

On the proposition and under the scientific leadership of SMC “ORION” during the period 1992 – 2001 on Ukraine’s territory it was created the network of laser-location stations (LLS), which includes three centers, situated in astronomical observations of Lvov and Uzhgorod National Universities, as well as SMC “ORION” of DonSTU. These centers are integrated into global geodesy system WGS-84.



In 2003 at the astronomical observatory SMC “ORION” due to Ukrgeodeskartographia and NKAU it was created the permanent GPS-station. This station is included into State system for monitoring of global navigation satellite systems, created on the order of Cabinet of Ministers of Ukraine № 486 from 7 April 2003. Network of such stations allow significantly increase the accuracy of

determining the coordinates of stationary and moving objects on Ukraine’s territory.

Astronomical observatory SMC “ORION”, which is equipped with two modern systems for coordinate-timely support for state bodies of executive power, concerned institutions is the basic center of null accuracy class of a new permanent geodesy network of Ukraine, the unique in Donbass region. To this center are tied 29 centers of the first class in Lugansk region.

For the present day the observatory is a unique scientific institution for performing the investigations on astronomy, geophysics, satellite geodesy, space navigation, quantum electronics, radio physics.

Considering the great importance of astronomic observatory SMC “ORION” for solving basic and applied scientific problems it was given the status of “National Heritage of Ukraine” according to the order of Cabinet of Ministries of Ukraine № 73-p from 11 February 2004, as the object named «Alchevsk scientific laser observation station for manmade Earth satellites (ASLOS)».

The director of SMC “ORION” DonSTU is a doctor of technical science, professor, academician of International Academy of Ecology and Life safety, member of International astronomic union DENISCHIK Yuriy Sergeyeovich. The vice-director of SMC “ORION” is the head of chair of radio physics, PhD., ass. prof. MURGAValeriy Vladimirovich.

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