

Current plans for the UNISEC-Global activity: Korea

Korea/Seoul

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Since the first UNISEC-Global meeting, Seoul National University satellite team members have gathered around to start off a project that will promote Nano-Satellite activities. SNU satellite team is currently active in both CanSat and CubeSat activities. Two groups of undergraduate students are participating in the CanSat competition and ARISS. Although CanSat is not an actual space launching program, SNU utilizes such programs to teach and give an opportunity to undergraduate and graduate students an on-hand experience on a similar system that resembles a Nano-Satellite. Regarding the CubeSat activity, Seoul National University is developing a 2U CubeSat as part of the QB50 project. The participating students get a chance to learn about the systems engineering and CubeSat development and operation procedures.

Regarding activities related to UNISEC-Global, Seoul National University satellite team has been granted funding from College of Engineering for hosting Nano-Satellite colloquium. The colloquium is not only intended to gather professors from Seoul National University, but will be held for a meet-up for professors from other universities within Korea who are interested in Nano-Satellites. Colloquium discussions are focused on ideas for future nano-satellite missions, collaboration, and ways of participating in CanSat and/or CubeSat activities. The colloquium will be held throughout the year.

Some of the future project plans in Seoul National University satellite team include continuous participation in CanSat and CubeSat activities, and development of an educational CubeSat kit. Although Seoul National University has been active in CanSat activities since 2006, a systematic course does not exist. Thus, one of the future plans are to develop a systematic course and/or methods that will give students motivation in continuously finding their way into space projects, and share the idea with other universities. The educational CubeSat kit will be developed in order to teach and give hands-on experience not only to university students, but also to K-12 students. The kit will enable the students to take interest in and understand the basic concepts of aerospace engineering, and also let them learn where and how the education they are receiving is applied. Regarding future CubeSat plans, Seoul National University is planning a joint scientific mission including astrobiology.