

Recent status of CubeSat development as the UNISEC-Global activity: Korea

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Here, current status of CubeSat development in Korea will be summarized and introduced. Two 3U CubeSat developed by KyungHee University, CINEMA, have been orbiting and operating their missions. Followed by CubeSat competition supported by KARI (Korea Aerospace Research Institute), 6 other missions have been awarded to KAIST, Korea Aviation University, Yonsei University in 2013, and KyungHee University, ChungNam University, Chosun University in 2014.

On the other effort, Seoul National University supported by NRF (National Research Foundation, Korea) with the link to EU-FP, has been working on QB50 mission as same as KAIST. In presentation, all the details of each mission, which until now 10 CubeSat activities have been accumulated, will be orally delivered and discussions related with each mission can be made.

Most of missions have been finalized their CDR procedures, and moved to the engineering model development, and initial test, validation, acceptance. Launch campaign would be one year period from December 2015 until November 2016 by Cyclone in Brazil for the case of Seoul National University as the general schedule of QB50 project, while other 6 missions would have same period of proposed launch campaign. This launch opportunity has been now open for the bid to the proposed launch service agencies, and selection would be announced by the end of this year.

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.