## **UNISON-Japan**

Japan

Yuta Kusano<sup>1</sup>, Xiao Ma<sup>2</sup>, Yusuke Tajima<sup>3</sup>

<sup>1</sup>Tokai University, Japan; <sup>2</sup>University of Tsukuba, Japan;

<sup>3</sup>The University of Electro-Communications, Japan

Point of Contact: Mengu Cho 3bmjm008@mail.tokai-u.jp

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UNISON-Japan, established in 2003, is a Japanese student organization and is dedicated to space development activities. Some of the major activities in 2014 are Noshiro Space Event in August, ARLISS in September and Workshop in December. Noshiro Space Event, held in every August since 2004, is the largest hands-on event in Japan. In this event, we experiment on launching rocket and CanSat in self-contained control. ARLISS, held in every September since 1999, is the international competition for CanSat. UNISON-Japan has played important roles as both operator and player. Japanese team has been winning the first prize in the past few years. In addition, we are continuously operating six Working Groups (WGs): Satellite, Rocket, CanSat, Outreach and Exchange Meeting. These WGs have their own activities in 2014. As shown in Figure.1, twenty teams develop or operate their own micro-satellite in Japan and Satellite WG supports them.

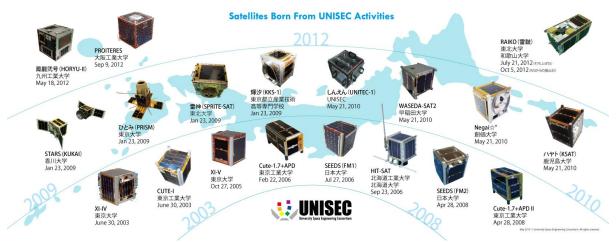


Figure 1.Satellites born from UNISEC activities

Rocket WG supports launching experiments of "hybrid rocket" and "cold gas rocket". Figure.2 shows an experiment in Noshiro Space Event in 2013.



Figure 2. A launching experiment in Noshiro Space Event in 2013

Furthermore, some students have started an advanced project beyond the scope of these WGs. Their final goal is "Launching student's satellites by using student's rockets." Some of the satellites made by the Japanese students will be carried to space on board by rockets. As to the rocket development, they established a project to renew the highest altitude record made by Japanese student. The present project will be finished on August 2014. In the 2nd UNISEC-Global Meeting, we will report the result of such project. In conclusion, UNISON-Japan has been engaged in variety of activities since 2003. Our experience and vision might be helpful for other countries. We will also report the details of these activities at the next meeting and we are more than willing to support other countries to establish their UNISON.