

Recent Space Weather Activities in Korea

Dr Young-deuk Park

July 2016

1. Charter for the KASI-NASA Heliophysics Working Group

Korea Astronomy and Space Science Institute (KASI) and National Aeronautics and Space Administration (NASA) have signed a Charter for the KASI-NASA Heliophysics Working Group in May 2016. Under the charter, the established working group will meet regularly to enhance the cooperation between the two agencies in the exploration of the Sun, the Sun-Earth system, and the heliosphere. The scope of its activity includes jointly planning future missions to address the heliophysics system science. Currently, a coronagraph on the International Space Station and nanosatellites for ionosphere / magnetosphere observation are in the line to be discussed for the first potential joint mission. The kick-off meeting at NASA headquarters is scheduled in September 2016.

2. The 4th AOSWA Workshop, 24-27 October 2016

The 4th Asia Oceania Space Weather Alliance (AOSWA) Workshop will be held on October 24-27 2016 in Jeju Island, Korea. Established in 2010, AOSWA holds annual workshop to encourage cooperation and share information among institutes in Asia-Oceania region concerned with and interested in space weather. The 4th annual workshop is organized by the Korean Space Weather Center of the National Radio Research Agency that is the Korean government command module for space weather forecasts and alerts and space weather risks. Under the banner of "**The risk of space weather – Regional action**", the workshop will consist of:

- Special sessions where participating countries will present their plans to respond to space weather risks and relevant policies;
- Sessions designed to vitalize international exchanges and cooperation in each area of space weather; and
- General sessions where participating countries and individuals will present their research orientations and outcomes in the field of space weather.

We encourage participation of all those interested in space weather not only in Asia and Oceania but also from all over the world.

The abstract may be submitted through the workshop homepage (<http://aoswa4.spaceweather.org>) until July 31, 2016.

3. The 3rd COSPAR Symposium, 18-22 September 2017

COSPAR will hold its third Symposium in Jeju Island, Korea, 18-22 September 2017 hosted by the Korea Astronomy and Space Science Institute (KASI). Theme of this Symposium is "**Small Satellites for Space Research.**" Small satellites known as CubeSat, MicroSat and SmallSat are moving from being experimental kit to delivering useful scientific data for space research. While many of space phenomena include wide range of temporal and/or spatial behaviors in vastly different areas, they can be studies with similar coordinated experiments at a group of satellites. This Symposium will allow various communities to share stimulating discussions and near-future plans among scientist using these types of satellites, which would be a quantum leap in the field of space science. The Symposium will feature plenary lectures as well as parallel sessions and poster sessions. The keynote, plenary, and interdisciplinary talks will give the insight of space research with small satellite platform and the three parallel sessions are designed for the several scientific and technical sessions:

- New idea for upper atmosphere research with micro- and nano-satellites
- Interaction of solar wind and Earth's bow shock: Recent progresses in observations and modeling
- Dynamics of magnetospheric process through coordinated experiment and modeling
- Advances in astrophysical research with small satellites
- Planetary exploration of the solar system
- Enabling technologies

Just before the symposium, the capacity building workshop tentatively titled with "Conceptual Design for Nano and Micro Satellites Missions" is planned to be held in Daejeon for one week.