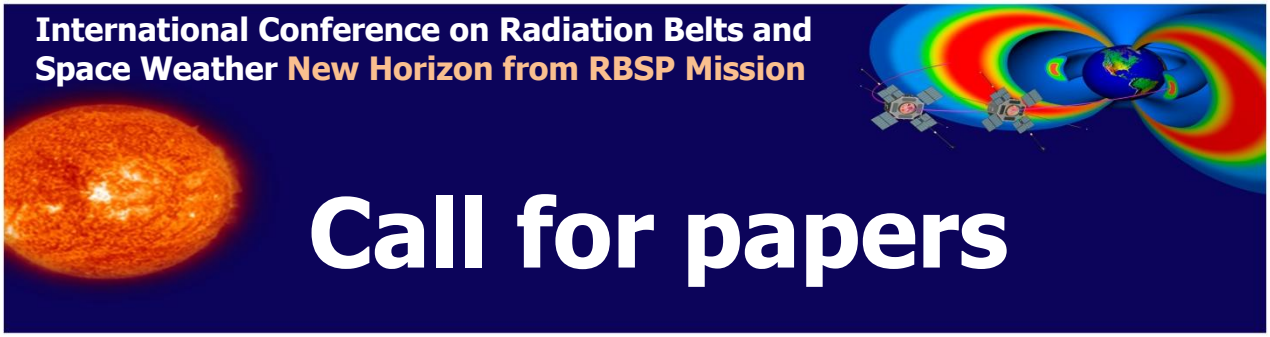

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International Conference on Radiation Belts and Space Weather

May 29~June 1, 2012 / Hotel INTERCITI, Daejeon, Korea

Welcome Message

On behalf of the conference committee, it is my great honor and pleasure to invite you to the **International Conference on Radiation Belts and Space Weather** to be held in **Daejeon, Korea in May 2012**.

The aim of this conference with theme 'New Horizon from RBSP' is to discuss and review scientific issues in magnetospheric physics and the technical information related to the RBSP (Radiation Belt Storm Probes) Mission.

This conference is indeed a fundamental ground for exchanging expected research outputs for the RBSP and its related areas. I do believe that this will be a fabulous chance for both researchers and practitioners to come together from divergent fields and share the outstanding findings and results.

We, the members of the Organizing Committee, are making all efforts to meet your expectations and to ensure a successful conference. We hope to create an opportunity for old friends and colleagues to get together and, more importantly, to become acquainted with new peers from this field.

We truly hope that you will take this chance to join us in Daejeon, to benefit from this grand event, and to lavish in the wonders of the traditional cultures and customs in this hidden jewel of Asia. Great weather and delicious delicacies mixed with friendly faces and warm welcomes await you.

We would like to thank you in advance for your participation and valuable contributions and look forward to seeing you in Daejeon, Korea in May 2012.

Yours truly,

Young-Deuk Park
Conference Chair of
International conference on radiation belts and space weather
Korea Astronomy and Space Science Institute

Invited Speakers

- **Dr. Barbara Giles** (NASA HQ)
- **Dr. David Sibeck** (NASA GSFC)
- **Prof. Kanako Seki** (Nagoya University)
- **Dr. Barry Mauk** (JHU/APL)
- **Dr. Bruce Tsurutani** (NASA/JPL-Caltech)
- **Prof. Danny Summers** (Kyung Hee University, University of Newfoundland)
- **Dr. Kunihiro Keika** (NJIT)
- **Prof. Ensang Lee** (Kyung Hee University)
- **Dr. Jeongwoo Lee** (NJIT)
- **Prof. George Parks** (UC Berkeley)
- **Dr. John Lee** (NASA HQ)
- **Prof. Yoshizumi Miyoshi** (Nagoya University)
- **Dr. Yuri Shprits** (UCLA)
- **Prof. Craig Kletzing** (University of Iowa)
- **Dr. Kazue Takahashi** (JHU/APL)
- **Dr. Ramona Kessel** (NASA HQ)
- **Dr. Geoff Reeves** (LANL)
- **Prof. Dae-Young Lee** (Chungbuk National University)
- **Prof. Robert Lin** (UC Berkeley/Kyung Hee University)
- **Dr. Michael Schulz** (Lockheed Martin Retiree)

Important Dates

- Abstract Submission: March 1(Thu.) ~ ~~March 30(Fri.)~~ April 14(Fri.), 2012

- Registration: March 1(Thu.) ~ April 30(Mon.), 2012

Scope

• Science topics associated with RBSP mission

RBSP is being designed to help us understand the Sun's influence on the Earth and near-Earth space by studying the planet's radiation belts. KASI will complete the RBSP receiving antenna system until this April. For commemorating this work, we hold the RBSP science workshop. So in this workshop we want many people being related to RBSP come to join us. And we hope many possible science topics associated with RBSP mission will be discussed here, in Daejeon.

• Modeling, simulation, and theory of radiation belt

To understand which processes accelerate and transport radiation belt electrons and ions and under what conditions, we need various theoretical and simulation work based on basic space plasma theory. In this workshop, we want to discuss the recent research progress on those simulation works and how RBSP data will be used to support those results.

• Energy coupling processes between ionosphere, plasmasphere, ring current and radiation belt

The instruments on the two RBSP spacecraft will provide the measurements needed to characterize and quantify the processes that produce relativistic ions and electrons. They will measure the properties of charged particles that comprise the Earth's radiation belts and the plasma waves that interact with them, the large-scale electric fields that transport them, and the magnetic field that guides them. RBSP data can be used to explain the energy coupling processes between ionosphere, plasmasphere, ring current and radiation belt. And any topics related to those energy coupling processes are welcome.

• Influence of the solar storms on the Earth's magnetosphere

Upcoming 2013 is a solar maximum of solar cycle 24. Many solar storms accompanying CMEs and solar flare will occur and the influences of those solar storms are one of our main interests. So in this year, inclining phase of solar cycle 24, RBSP data will be very helpful for answering to many questions on those influences of the solar storm.

• Current space weather issues

KASI has constructed the Space Weather Prediction Center (SWPC) since 2007. This RBSP receiving antenna project is the part of this SWPC project. We develop many piece of software to help the space weather customers such as a satellite control center of military and commercial communication company, air force, and airline companies. In addition, we make a daily space weather report. For these space weather prediction and nowcast, we study current space weather issues constantly. So in this workshop, we hope many issues associated with the space weather will be presented and discussed.

Registration Information

Type	Advanced Registration (March 1 ~ April 30)	On-Site Registration (After April 31)
Regular Registration	$ 200	$ 250
Student Registration	$ 150	$ 200
Accompanying Person	$ 100	$ 150

• Regular Registration includes

- Admission to all Sessions, Refreshments, Welcome Reception, Lunch, Banquet, Program Book

• Student Registration includes

- Admission to all Sessions, Refreshments, Welcome Reception, Lunch, Banquet, Program Book

• Accompanying Person includes

- Welcome Reception, Banquet

Conference Venue

HOTEL INTERCITI Conference Venue!

Interciti is a top-rated hotel which puts prior to customer's satisfaction. The hotel pursues, externally, internationalization and differentiation and efficiency internally.

The hotel has a very good view that customers can see the whole branch of Geumgang and convenience for business. As the hotel is located in the center of Yuseong, which is a hot spring area, customers can enjoy spa and leisure.

□ Organized By

Korea Astronomy and Space Science Institute · KHU/SSR Kyung Hee University School of Space Research · CHUNGBUK NATIONAL UNIVERSITY · National Meteorological Satellite Center · RRA NATIONAL RADIO RESEARCH AGENCY

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The Korean Space Science Society · High Gain Antenna

If you want to know detail in the conference, please visit our web site http://rbsp2012.kasi.re.kr/