



FINAL ANNOUNCEMENT

# **The 1<sup>st</sup> Space Exploration and Kibo Utilization for Asia Workshop**

**LAPAN Headquarters, Jakarta, Indonesia**

**May 28, 2015**

We are pleased to announce that The 1st Space Exploration and Kibo Utilization for Asia Workshop, organized by the Space Environment Utilization Working Group (SEUWG) of the Asia-Pacific Regional Space Agency Forum (APRSAF) and the National Institute of Aeronautics and Space (LAPAN), will be held on May 28, 2015, in LAPAN Headquarters, Jakarta, Indonesia.

In response to the recommendations of the APRSAF-21 which was held last year in Tokyo, this Workshop will provide researchers from space agencies and research institutes in the Asia-Pacific region with the first-hand information on research and experimental facilities onboard the Japanese Experiment Module “Kibo” of the International Space Station (ISS) aiming at promoting various areas of excellent scientific and engineering research in space and relevant activities for fostering the next generation in the region.

In particular, invited speakers and participants will introduce and share updates on experimental themes that utilize Kibo facilities mainly in the following four areas:

- Agricultural experiment research
- Science and engineering experiment (including CubeSat deployment)
- Medical science research
- Physics and materials science research

Exploration of outer space is now a global undertaking and active discussions beyond the ISS to further exploration missions are going on around the world. The Workshop participants are also expected to share ideas and plans in research including advanced technology development for human and robotics space exploration, and exchange views on promoting regional and international collaboration toward future exploration undertakings.



It is also expected, through this Workshop, to establish and expand new and existing research communities among nations in the region, aiming at facilitating research activities and regional cooperation.

The outcomes of the Workshop will be reported at APRSAF-22 scheduled to be held from 2<sup>nd</sup> to 5<sup>th</sup> December 2015 in Bali, Indonesia.

We sincerely hope that you will actively join us in this Workshop, and look forward to meeting you in Jakarta soon.



Space Environment Utilization Working Group  
APRSAF-22



## <Background Information>

### **Background of Space Environment Utilization Working Group (SEUWG)**

The Space Environment Utilization Working Group (SEUWG) was established at APRSAF-12 as an opportunity for countries in the Asia-Pacific region to use the “Kibo” Japanese Experiment Module on the International Space Station (ISS/Kibo). For further utilization of the space environment, the WG shares needs and exchanges information on subjects related to the advantages and framework of using ISS/Kibo’s special function. The WG aims to promote utilization of ISS/Kibo among Asian countries in cooperation with Japan in the fields of life science, space medicine, physics/materials science, space observation, earth observation, and advanced technology demonstration.

The WG has begun exchanging information on space exploration and space medicine that was presented at APRSAF-21 to enhance cooperation in the region for future international exploration extending beyond the ISS program.

The relevant recommendations adopted at APRSAF-21 (2-5 December 2014, Tokyo) are excerpted as follows:

The participants of APRSAF-21

- Welcomed the research and development on the International Space Station (ISS) and the promotion of human resource development and capacity building.
- Welcomed the discussion of space exploration, which has been studied globally, and encouraged active support for its implementation.

The following recommendations were provided regarding SEUWG:

- To initiate R&D projects on lean satellites, such as CubeSat and 50cm-class satellites, utilizing the JEM Small Satellite Orbital Deployer (J-SSOD) available in Kibo/ISS, based on collaboration efforts among Asian countries.
- To encourage space agencies to fully utilize the pressurized module and/or the exposed facilities in Kibo/ISS before 2020.
- To continue the students’ parabolic flight programs in order to expand the cooperation between JAXA and the other agencies, based on the



understanding of its benefits to youngsters in future space utilization.

(Space Medicine)

- To take an interdisciplinary approach to space medicine and satellite technology in order to promote “tele-epidemiology” for public health.
- To use the ISS as a test-bed for human space exploration, with the participation of Asian countries, through collaboration with JAXA.

(Space Exploration)

- To continue information exchange among Asian countries on international space exploration, which is a long-term global program for human being.
- To continue to participate in activities that build the capacity of international space exploration, depending on their capability.
- To hold, in addition to APRSAF, dedicated workshops once or twice a year in Asian countries, in order to ensure the firm progress of those countries in developing and conducting their own missions.



## <Workshop Information>

### **Date and Venue**

Date: 28 May 2015

Venue: National Institute of Aeronautics and Space (LAPAN)  
Headquarters, Dirgantara Hall  
Jl. Pemuda Persil No. 1, Rawamangun, Jakarta 13220, Indonesia  
<http://www.lapan.go.id/index.php/home>

### **Organized by**

Space Environment Utilization Working Group (SEUWG), APRSAF-22

### **Hosted by**

National Institute of Aeronautics and Space (LAPAN)

### **Co-Secretariat**

National Institute of Aeronautics and Space (LAPAN)

Japan Aerospace Exploration Agency (JAXA)

### **Points of Contact**

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### **References**

- Reference Movie: "From Kibo into Deep Space, and Beyond"

[http://iss.jaxa.jp/en/kuoa/news/movie\\_1504/](http://iss.jaxa.jp/en/kuoa/news/movie_1504/)



- ISECG : International Space Exploration Coordination Group  
Space Policy Journal Special Issue about the “Global Exploration Roadmap”  
<http://www.globalspaceexploration.org/wordpress/>
- APRSAF activities  
<http://www.aprsaf.org/about/>
- SEU WG activities  
[http://www.aprsaf.org/working\\_groups/seu/](http://www.aprsaf.org/working_groups/seu/)
- Kibo Utilization for Asia  
<http://iss.jaxa.jp/en/kuoa/>
- Kibo-ABC activities  
[http://www.aprsaf.org/initiatives/kibo\\_abc/](http://www.aprsaf.org/initiatives/kibo_abc/)