Nano-Satellite Symposium/UNISEC-Global Meeting

Overview

The 7th Symposium & the 4th Meeting, including the 4th Mission Idea Contest and the Deorbit Device Competition, will be jointly held in
on
October 18 – 23, 2016

July, 2016
University Space Engineering Consortium (UNISEC)
Venue – **Kamchia resort, BULGARIA**

Sanatorium and Health Complex Resort “Kamchia”

**Varna Airport:** 1 hour flight from Istanbul; 2.5 h from Frankfurt; 50 minutes flight from Sofia (5 hours by car)

- **Local Organiser:** CLUSTER for AEROSPACE TECHNOLOGIES, RESEARCH AND APPLICATIONS
Sanatorium and Health Complex Resort “Kamchia” is an unique new facility, which combines a Seaside Resort, a Wellness Center, Children’s Camp, High School, a Palace for Children’s Creative work, Sports and Rehabilitation Center.

The Complex is situated among a preserved nature – clean sea beach, river, forest, neighboring of a Natural Reserve protected by UNESCO. All buildings are new (2013), situated in an oak forest, a handsome park with botanical zones, eco-trails, summerhouses, places for campfires, zones for relax, sports and entertainment are carefully maintained.

Part of the Complex is the Educational and Teaching Center (School) “Yourii Gagarin”. The Center includes a school with 18 cabinets, teaching and acts hall, sports hall, music hall, dancing hall, exhibition hall, children’s media center, press center, Aerospace center with Planetarium, Observatory, Inter-active simulator of the “SOJUZ-TMA” space capsule, Space Museum and other.
Brief Program

- The 7th Nano-Satellite Symposium  October 18-20
- The 4th UNISEC-Global Meeting  October 21-23
  - Deorbit Device Competition  October 20
  - 4th Mission Idea Contest  October 21

(Final paper will be published as the IAA Book Series)
Nano-satellite Symposium

• It covers all fields of nano-satellite with less than 50 kg in weight.
• Speakers will make academic presentations about missions, application, technology, infrastructure (launch, legal aspects, education, etc.) and so on.
• The past symposiums had been held 5 times in Japan as part of the “Hodoyoshi Project”, starting from 2010. The 6th symposium was held last year as one of the programs at ISTS.
• This is a first symposium to be held outside Japan. The 8th one will be held at ISTS (Japan) and the 9th one planned in Australia.
UNISEC-Global Meeting

• The UNISEC-Global Meeting is an annual gathering to expand the system of university consortium beyond Japan which intends to promote practical space projects at university level.

• At present, 13 local chapters have been approved. The UNISEC-Global aims to establish a world community of universities which have practical space engineering curriculum. Its target is to let local chapters of 100 around the world join the community by 2020.

• The first meeting was held in 2013 followed by the 2nd and 3rd ones in Japan.
Mission Idea Contest for Micro/Nano-Satellite Utilization

• This a contest to propose new applications of Micro/Nano-Satellite with less than 50kg in weight.
• Since the 1st Contest as part of the “Hodoyoshi Project in 2011, the Contest has been held 5 times in Japan, including 2 pre-workshops.
• The three publications have been made as the IAA book series.
• There have been regional coordinators of 35 countries around the world.
Deorbit Device Competition

• This is a first competition to propose technical approaches for deorbit devices to prevent space debris.
• It is to facilitate the sharing of innovative solutions for debris mitigation and to develop effective deorbit devices.
• It will be expected to increase awareness for sustainable and harmonious development.
Vision 2020-100

“By the end of 2020, let’s create a world where university students can participate in practical space projects in more than 100 countries.”

It will be realized if people in more than 100 countries believe it and help each other.
Achievement of UNISEC-Japan

37 university satellites launched in 12 years,
More than 900 student members from 50 universities in Japan
Contact

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