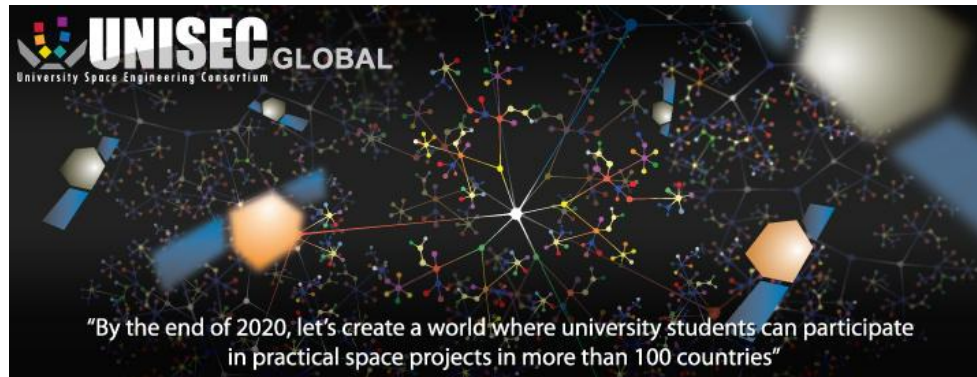


# Nano-Satellite Symposium/UNISEC-Global Meeting Overview

**The 7<sup>th</sup> Symposium & the 4<sup>th</sup> Meeting,  
including the 4<sup>th</sup> 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)

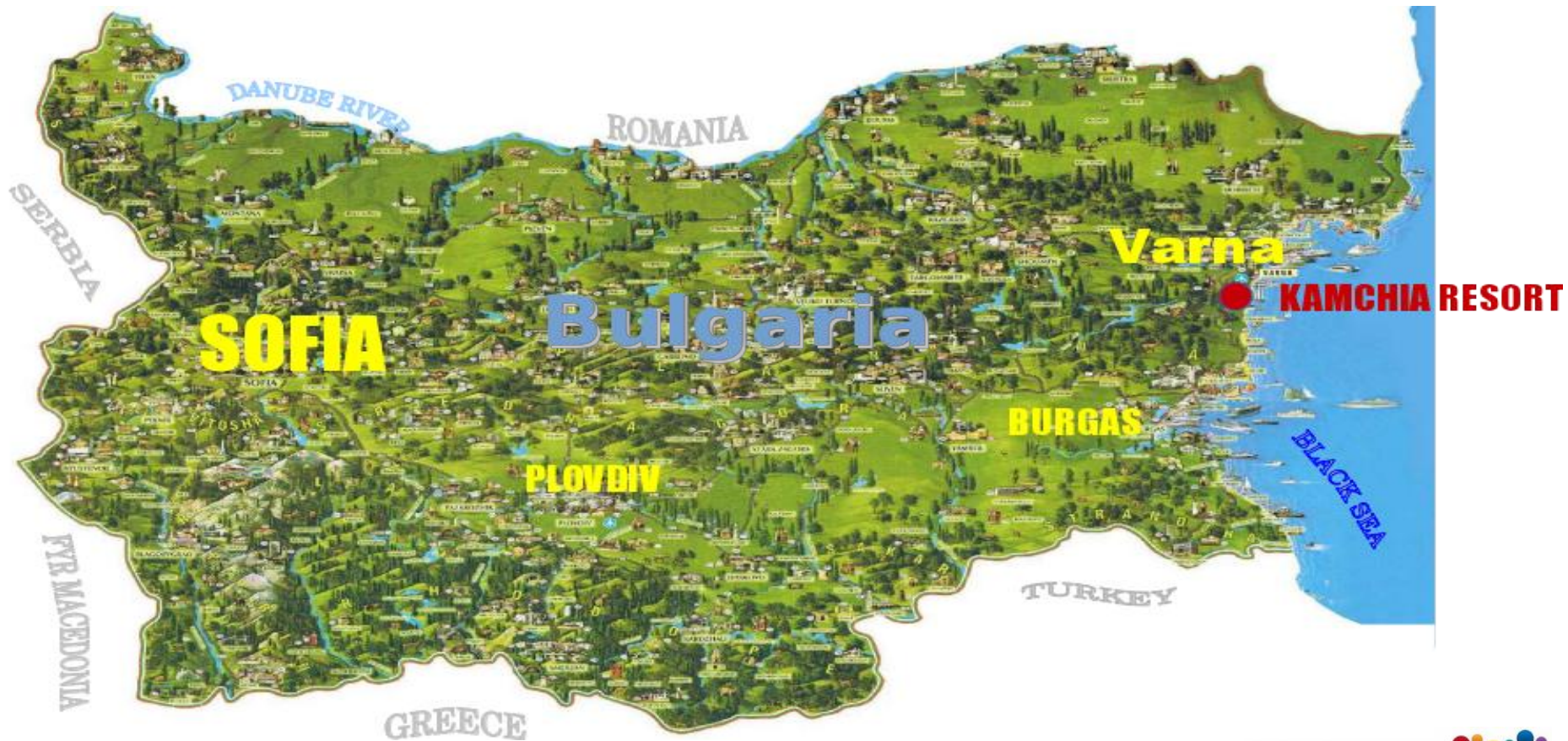


# Venue – **Kamchia resort, BULGARIA**

Sanatorium and Health Complex Resort “Kamchia”

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

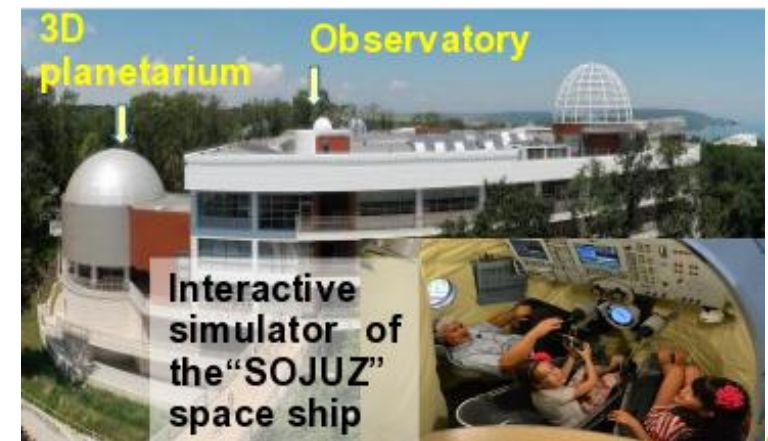
- Local Organiser: **CLUSTER for AEROSPACE TECHNOLOGIES, RESEARCH AND APPLICATIONS**, 



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**





# IMAGES FROM THE VENUE



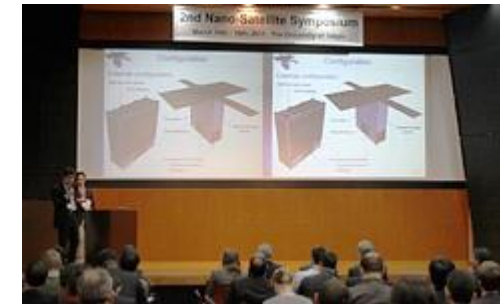
## Brief Program

- The 7<sup>th</sup> Nano-Satellite Symposium                      October 18-20
  - The 4<sup>th</sup> 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, et c.) and so on.
- The past symposiums had been held 5 times in Japan as part of the “Hodoyoshi Project”, starting from 2010. The 6<sup>th</sup> symposium was held last year as one of the programs at ISTS.
- This is a first symposium to be held outside Japan. The 8<sup>th</sup> one will be held at ISTS (Japan) and the 9<sup>th</sup> 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 3<sup>rd</sup> 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 1<sup>st</sup> 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.

