

Change in Schedule!

6th Day (23rd October, 2016)

9:00-9:30	Special Speech		
9:00-9:10	Support programmes for university satellite projects Werner Balogh United Nations Office of Outer Space (UNOOSA)		
9:10-9:20	Lessons learned from launching university satellites Mengu Cho Kyushu Institute of Technology		
9:10-9:30	TBD		
9:30-10:40	Student Presentation		
	Egypt	Ahmed Abd el-Moniem	Cairo University
	Italy	Alice Pellegrino	Sapienza - University of Rome
	Japan	Kyohei Yashima	Tokyo Institute of Technology
	Turkey	Mehmet Şevket ULUDAĞ	Istanbul Technical University
	Bulgaria	Bogdan Konstantinov	Sofia University
	Peru	Juan Huamani	National University of Engineering
	South Africa	Hein Wessels	Stellenbosch University
	Germany	Stephan Busch	Würzburg University
10:40-11:00	Break		
10:50-16:00	Student Session (TBD) Chair: Mr. Stoil Ivanov (Sofia University) How to initiate, plan and implement an university nano-satellite project - from idea to space		
16:00-16:10	Closing Ceremony		

• Student Presentation Order

- **Germany**
- Egypt
- Italy
- Japan
- Turkey
- Peru (**Video**)
- South Africa
- **Mexico**
- **Bulgaria**
- Student Session (10:50 – **14:50**)
- Closing Ceremony (**14:50 - 15:00**)
- Varna City Trip?? (15:00 -)

4th UNISEC Global Meeting Student Session

Tomoyuki Yamasaki (The University of Tokyo, Japan)

Stoil Ivanov (Sofia University, Bulgaria)

Mehmet Şevket Uludağ (Istanbul Technical University, Turkey)

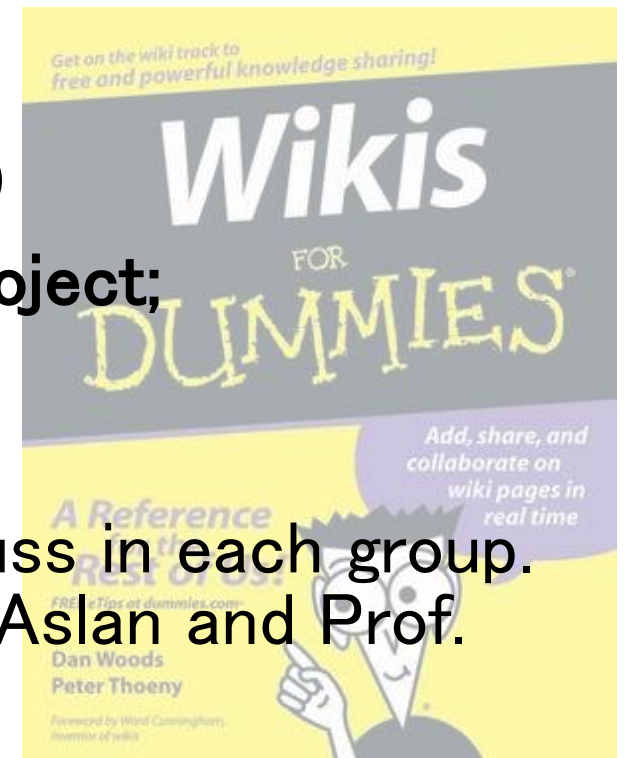
23. OCT. 2016

Background

- Many **universities** are starting a satellite project, but launching a satellite is not something about designing a mission, developing, integrating, launching, and operating.
 - Let's say I want to start a CubeSat mission. Where do I start??
- Discuss about **ALL** the stuff that you have to think about when you are starting your own CubeSat project!
- Make a **guideline** for CubeSat that many people can consult to.

Student Session

- How to Initiate, Plan and Implement an University Nano-Satellite Project – From Idea to Space –
- Time – 10:50 – 14:50 (4 hours including lunch break)
- Our goal – To make a **guide for guideline** of CubeSat project; ”CubeSat for Dummies”
- We will split into 2 (or 3) groups with **diversity** and discuss in each group. Each group will have professor as an **assistance**. (Prof. Aslan and Prof. Miyazaki)



What We Will Discuss

Agenda A (Discussed in UNIGLO 4) – i.e. Mission design

- Details of Agenda A (Discussed in UNIGLO 5)

Agenda B (Discussed in UNIGLO 4) – i.e. Test Facility

- Details of Agenda B (Discussed in UNIGLO 5)

Agenda C (Discussed in UNIGLO 4) – i.e. Launch choice

- Details of Agenda C (Discussed in UNIGLO 5) – Merits and demerits of piggy bag vs. ISS launch

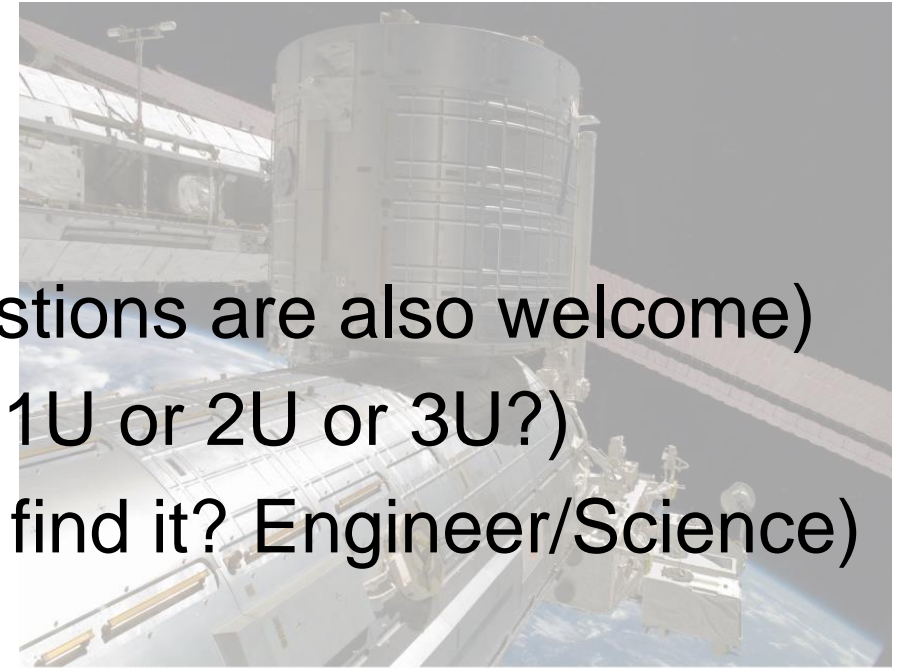
Agenda D (Discussed in UNIGLO 4) – i.e. Funding

- Details of Agenda D (Discussed in UNIGLO 5) – Finding possible company that can fund the project

**Keep it Simple!
Don't go too
much into detail**

Condition

- Launch – ISS KiboCube (Other suggestions are also welcome)
- CubeSat size – Max 3U (How do we decide 1U or 2U or 3U?)
- Mission – Not decided (Where can we find it? Engineer/Science)
- Presentation – From 14:20 (15 min each)
- And remember, **don't hesitate** to speak up!!
Share your country's situation, that what **UNISEC Global** is for!



Some possible topic

- Mission design
 - Where to find mission
- Launch opportunity
 - Where to find launch?
- Operating
 - Ground station
 - Frequency
- Testing
- Interface (if working with science mission)
- Transportation
- Facility (like clean room)
- Teaming
- Material requirements
 - Cold welding
- Thermal control
- Financing
- Prior knowledge required
- List out all the possible topic that we have to think about!!!

Time schedule

- 11:00 – Get into group; self introduction
- 11:20 – Start discussion!
- 12:30 – Lunch
- 14:00 – Start wrapping up. Prepare presentation
- 14:20 – Presentation
- 14:50 – End!

- Let's get into group!
- Gather with your friend from your country, and split into two groups