

# UNISON Korea

## Group 9

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# Outline of this discussion

## Topics

Problems that makes difficult to organize UNISON.

If you think you could establish and develop UNISON, what could you do as a UNISON member?

Or if you could not, what are the problems?

- Self-Introduction
- Current Status and Problems of Each Country
- Merit or Demerit of Organizing UNISON
- First step of UNISON Local or first activity plan

# Agenda

Self-Introduction (5 seconds each)  
Current Status and Problems  
Merits and demerits of UNISON  
First Step of UNISON Korea

# Daichi Manabe

- An undergraduate student, Univ. of Tsukuba, Japan
- I belong to students club, and make hybrid rockets and cansats. (I'm a project manager of the hybrid rocket team)
- I'd like to degine a motor of hybrid rockets.

# Yuichiro Watanabe

- Student of Akita University in Akita(North Japan)
- 4th grade
- Department of Mechanical Engineering
- Belong to ASSP(Akita Univ. Student Space Project)
- Responsible is the structural design

# Ji Hyun Park

- Student of Seoul National University, Korea
- Likes space, skiing, and drinking
- Participated in ARLISS and CubeSat activities
- Goal: Want to make CanSat and CubeSat activities more active

# In-Seuck Jeung

- Professor of Seoul National University, Korea
- Advisor of SNU satellite team
- Major is Aerospace Propulsion and Combustion

# Current status and problems

## -Current Status

Korea has participated in UNISON Global in year 2014 with Peru, Ghana, and Japan

There was a need to gather with other universities in Korea

Gathering is hard because universities are in sort of a race



# Current status and problems

## -Current Status

However, there are personal communications in between students (not official)

For example...

SNU-Yonsei: How to make PCB

SNU-KHU: Thermal Vacuum Chamber

SNU-KAIST: Technical and regulation regarded information exchange

SNU-KARI: Information and documentation exchange

So everyone is willing to help each other, but not official

# Current status and problems

- We need to benchmark UNISON!
- UNISEC Japan was found in 2001
- UNISON was found in 2003
- What were the first activities? (Not very accurate)  
(Possibly) **Very motivated students** gathered  
(Maybe) First step was ARLISS  
(Maybe) Professor gathered other universities  
(Possibly) Students gathered and expanded  
(Probably) Naturally gathered

# Current status and problems

## **(Tip from UNISON Rep.) Essential Problems**

- Every year it is hard to find and keep and give motivation
- Even if UNISEC/UNISON starts there should be office that takes care of work (documents, funding, regulations, etc.)
- There needs to be a person who wants to become a representative and manage everything
- That might happen in Korea also
- Solutions may be discussed within representatives of each countries
  - More people, maybe more idea

# First step of UNISON

- Someone needs to start
- Opening forum could be idea
- CanSat/CubeSat and activities information
- Potential UNISON members (around 20)
  - : Thirteen universities in CubeSat
  - : Seventeen universities in CanSat
- Maybe physical group is hard to start
- Starting with web might be a good idea

# Plans of UNISON Korea (and role of UNISEC Korea)

- Currently many products are being purchased
- In future get products within Korea (cheap hopefully)
- In UNISON, students can gather and propose joint mission (like Tsubame, Hodoyoshi etc.)
- Compete in different events (CanSat competitions)
- Exchange tips and know-hows

# Action items

Talk with students of other universities

Decide role of each students

Make a web

- Information (different kinds of activities)

- Technical articles

- Helpful links and other country links

When UNISON Korea grows (from first step), we can try to further step up to physical group