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 design 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