Space education activities and local UNISEC establishment in Taiwan

UNISEC-Taiwan PoC: Prof. Jyh-Ching Juang
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• **Space Education/Researches Actors in Taiwan**
  • NCKU Space Activities
    – Micro/Nano-Satellites
    – Sounding Rockets
    – Atmospheric Balloons
  • Potential collaboration areas
  • UNISEC-Taiwan
    – Establishement
    – Management
    – Activities
Space Education Actors In Taiwan

National Cheng Kung University (NCKU)

National Central University (NCU)

National Taiwan University (NTU)

National Tsing Hua University (NTHU)

National Space Organization (NSPO)
Space Education Actors In Taiwan

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NCKU Space Activities

Micro/Nano satellites

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Satellite system engineering course:
- PACE
- ESEMS
- LEAP
- CKUTEX
- QB50/PHOENIX
- BIRDY
Sounding Rockets

NSPO rocket (Universities Scientific Payloads)

NCKU rocket (NCKU Scientific Payloads)
Atmospheric balloons

NCKU balloons (NCKU Scientific Experiments)
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Potential collaboration areas

Micro/Nano satellites

CubeSats

MicroSatellites

Many good ideas

Propose missions to UNISEC chapters to make an international satellite

Share experience, costs and scientific data
Potential collaboration areas

Sounding Rockets

Students from different UNISEC chapters could work together on a common Sounding Rocket.

Students from different UNISEC chapters could design and build scientific and technological experiments to put on the NCKU Sounding Rocket and/or on the common Sounding Rocket.

NCKU Hybrid Rocket
Potential collaboration areas

Atmospheric balloons

Students from different UNISEC chapters could design and build scientific and technological experiments to put on a same atmospheric balloon.

Share experience, costs and scientific data.
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UNISEC-Taiwan

Establishment

- Already have UNISEC local PoC: Prof. Jyh-Ching Juang, NCKU.
- Registration of UNISEC-TAIWAN under NCKU clubs legal status.
- UNISEC-TAIWAN local workshop (Q1 2015) to seek players, supporters, financial resources.
- Link UNISEC-TAIWAN with current local space education activities.
Management

• List of potential member universities and members.

• Consortium leaded by NCKU.

• Set up of a mailing list and Facebook.

• Website to publicize activities.

• Organize annual workshop.
Activities

• Join existing UNISEC programs (MIC, Nano-Satellite Symposium, UNISEC-Global-Meeting) and propose new one(s).
• Collaboration in Small Satellites / Sounding Rockets / Atmospheric Balloons.

• Share the experience, costs, scientific results.

• Working together with other UNISEC organizations will allow more ambitious Space projects.

• Forum on the UNISEC-Global Website for discussing between Local-UNISEC chapters?
Thank you for your attention!

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Thank you UNISEC!
Thank you NCKU!