



BIRDS Project Newsletter

(now covers BIRDS-1 and BIRDS-2)

Issue No. 10 (13 Nov. 2016)



← NEW GROUP PHOTO

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Project website: <http://birds.ele.kyutech.ac.jp/>
All back issues are archived at this website.



All back issues of this newsletter can be easily downloaded. Go to here: <http://birds.ele.kyutech.ac.jp/>
At the top, click on the tab called NEWSLETTER. You will get a menu for all back issues.

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1. BIRDS students talk at Meisenkai branch of Kurume



Meisenkai Meeting at Kurume 明専会久留米支部総会

Report (the next 3 slides) by Students Taiwo and Nakamura
17 October 2016

The 'Meisenkai' of Kurume -- 明専会久留米支部

'Meisenkai' is the alumni association of Kyutech. Members can be current students and former students of Kyutech.

Kurume Branch of Meisenkai

Kyutech graduates who work in or near Kurume are attached to this branch. Taiwo and Nakamura went to a recent meeting of this branch.

Meeting details

Date : Saturday, 15 October 2016.

Place : Bridgestone Club

(in front of Bridgestone factory in Kurume)

Attendance : 31 persons (age: from 24 to 94)

Presentation language :

English (Nakamura translated for Taiwo)





The BIRDS partners



Nakamura Taiwo



**Kurume
15 Oct 2016**



Delicious Kurume ramen
美味しい久留米ラーメン



**End of Report on the
Meisenkai meeting at
the Kurume Branch.**

*Good job, Taiwo and 中村さん!!!
This is important public relations
work – The Editor.*

2. NUM announces at the UN its involvement in the BIRDS Project

Title: Permanent Representative of Mongolia to UN gives a statement about first Mongolian satellite.

Summary of text: H.E.Sukhbold Sukhee, Ambassador Extraordinary and Plenipotentiary and Permanent Representative of Mongolia to the United Nations attends plenary meeting titled as “International cooperation in the peaceful uses of Outer Space” at fourth Committee of the 71st UN General Assembly, held on October 11, 2016. He states during his speech in the meeting that Mongolia always strives to follow intention on peaceful uses of outer space from UN. Ambassador emphasizes that Mongolia is planning to launch its first ever satellite by 2017. So, we hope that we could take advantages, at least, in the fields of independent research and study in the space and natural disaster preparedness.



NUM website, 13-Oct-2016.

НҮҮР БИДНИЙ ТУХАЙ ЭЛСЭЛТ СУРГАЛТ СУДАЛГАА

Монгол Улс анхны хиймэл дагуулаа хөөргөнө гэдгээ НҮБ-д танилцууллаа

© 2016-10-13

Монгол Улсаас НҮБ-ын дэргэд суугаа Онц бөгөөд Бүрэн Эрхт Элчин сайд, Байнгын төлөөлөгч С.Сүхболд 2016 оны 10 дугаар сарын 11-ний өдөр НҮБ-ын Ерөнхий Ассамблейн 71 дугаар чуулганы Дөрөвдүгээр хорооны “Сансрын уудмыг энхийг зорилгоор ашиглах олон улсын хамтын ажиллагаа” сэдэвт хуралдаанд оролцон үг хэлэв.

Элчин сайд С.Сүхболд хэлсэн үгэндээ Монгол Улс сансрын уудмыг энхийн зорилгоор ашиглах олон улсын хамтын нийгэмлэгийн хүч чармайлт, үйл ажиллагааг дэмжиж ирснийг онцлоод, сансрын уудмыг энхийг зорилгоор ашиглах үзэл санааны хүрээнд Монгол Улсын Засгийн газраас авч хэрэгжүүлж буй арга хэмжээний талаар тэмдэглэв.

At left, the article is translated from Mongolian to English by Mr. TURTOGTOKH Tumenjargal, a member of the BIRDS team. We call him “Turo”.

3. UNOOSA recognizes Kyutech's capacity building achievements, including BIRDS (with this official letter)



15 October 2016

Dear Prof. Cho,

I would like to take this opportunity to express the appreciation of the United Nations Office for Outer Space Affairs (OOSA) to you and your staff at Kyushu Institute of Technology (Kyutech) for your contributions to international space cooperation and to the peaceful uses of outer space.

Your participation in the recent United Nations/International Astronautical Federation Workshop on Space Technology for Socio-Economic Benefits, held in Guadalajara, Mexico, 23-25 September, helped to highlight the ongoing efforts of OOSA and Kyutech to support capacity building in space technology development in emerging space nations.

We are especially delighted to see the successful evolution of the United Nations/Japan Long-term Fellowship Programme (PNST), which since its initiation in 2011 has allowed more than 20 Master and PhD students from around the World to study at Kyutech. We understand that the students selected in the highly-competitive 2016 round have just arrived in Kitakyushu and we expect them to follow the example of previous successful graduates, to become space ambassadors for their respective countries in Japan and to lead the space development activities of their countries when they return back home following their own graduation.

The presentations by Kyutech and PNST graduates at this year's session of the United Nations Committee on the Peaceful Uses of Outer Space (COPUOS) in Vienna has been met with strong interest by Member States and as a result we have to date already received more than 700 applications for the 2017 round of the PNST.

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We are pleased to see that PNST and other Kyutech students participating in the Space Engineering International Course (SEIC) are not only taught about the theoretical aspects of space technology development, but, through hands-on activities, are directly participating in the development, testing, launch and operation of satellites, including for operational applications. In particular we note the BIRDS projects in which Kyutech students are presently developing the first satellites for Ghana, Bangladesh, and Mongolia. This aspect of the SEIC, that students at the end of their studies return with the complete theoretical and practical knowledge to initiate satellite development activities in their own countries, makes Kyutech's activities unique and stand out among other satellite development capacity building activities in the World.

We congratulate you for your success in developing PNST into a leading space technology capacity building programme, recognized by the United Nations. We look forward to continue working with Kyutech, and, by building on these achievements, open outer space activities for a growing number of emerging space nations.

Yours sincerely,

A handwritten signature in black ink that reads "Werner Balogh". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Werner Balogh
Programme Officer
Space Science and Technology

Prof. Mengu Cho
Director, Laboratory of Spacecraft Environment Interaction Engineering
Program Director, Space Engineering International Course
Kyushu Institute of Technology
Kitakyushu, Japan

Bringing the benefits of space to humanity

Office for Outer Space Affairs, United Nations Office at Vienna, Wagramerstrasse 5, 1400 Vienna, Austria
Tel. (+43-1) 26060-0, Fax (+43-1) 26060-5830, www.unoosa.org

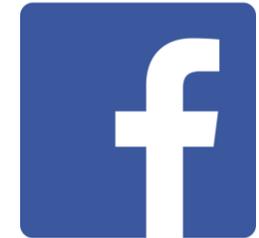


4. Departure from Narita for UNISEC-Global in Bulgaria



“Leaving for the nano satellite symposium and UNISEC Global Meeting in Bulgaria! At Narita airport. — with [Tejumola Taiwo](#), [Tomohiro Takanashi](#), [Masahiro Nakamura](#), [Senior Benjamin Bonsu](#), [Kyohei Yashima](#) and [Takumi Date](#)”

From the Facebook of Rei Kawashima, Secretary General of UNISEC Global



5. FBS TV (local TV station) shoots BIRDS work for a documentary

株式会社 福岡放送
Fukuoka Broadcasting System Corporation



FBS福岡放送・社屋

<http://www.fbs.co.jp/>

FBS, a commercial TV station of the Fukuoka area, has been shooting film for several weeks for a 10-15 minute documentary that was aired in November. They have filmed various project activities, such as the weekly meeting of Thursday.



FBSの小型中継車

The documentary aired on 11 Nov 2016 at 6:30 PM JST.

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FBS TV film crew shooting inside of the **BIRDS Clean Room** on 18 Oct 2016.

Photo by G. Maeda



Filming thermal vacuum testing on 2 Nov. 2016. (Photo by Maisun)



6. Project Manager Taiwo presents BIRDS Project at UNISEC-Global in Bulgaria



Venue: 7th Nano-Satellite Symposium @ Kamchia, Bulgaria



Name of session:
New Project Concepts



Title of paper: *Joint Global Multi-Nations BIRDS: Developing Nations' Testbed for Space Technology towards Sustainable Space Program*



7. Latest photos of some of the BIRDS ground stations around the world

BIRDS GS Member Information

(GS=Ground Station)

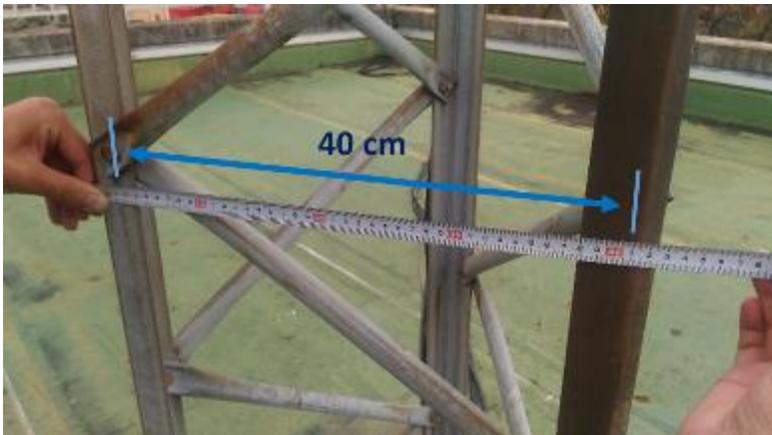
Prepared by

Apiwat Jirawattanaphol

26 October 2016



Kyutech 2nd GS (BIRDS primary station)





Ghana ANU-SSTL GS



The BIRDS Ground Station Experts, 8 Nov 2016.

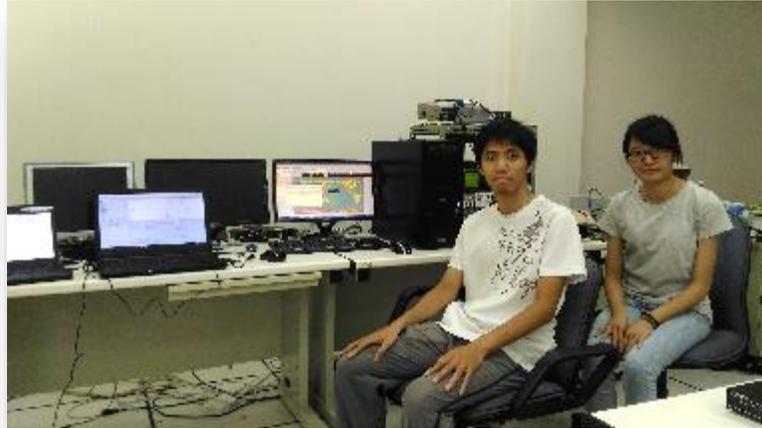




Taiwan NCKU GS (in southern Taiwan)



GS Equipment



GS Team: Kevin and Rita



UHF/VHF Antenna

Their supervisor: Prof. Jyh-Ching Juang



Thailand KMUTNB GS



8. Bhutan students (BIRDS-2) have audience with their prime minister



Prime Minister Tshering Tobgay of Bhutan grants audience to first three prospective space engineers of Bhutan (*Left to Right*: Kiran Kumar Pradhan, Yeshey Choden, Prime Minister Tshering Tobgay, and Cheki Dorji).

Date of this photo : 19 October, 2016

Place: Office of the Prime Minister; Thimphu, Bhutan

The photo at the left was posted to Facebook in October by Lyonchen (Prime Minister) Tshering Tobgay with the following comments:

"With our future space engineers. Yes, you heard right! Kiran Kumar Pradhan, Yeshey Choden and Cheki Dorji leave for Japan later this month to study space engineering. While there, they will design, build, launch and operate our first satellite, a CubeSat which is very small, but can be used to provide information for environment, agriculture and disaster. Upon completion of their training, Yeshey, Cheki and Kiran will work in Bhutan's space and satellite program."



9. Bhutan news media covers the nation's first step into space

KUENSEL
THAT THE PEOPLE SHALL BE INFORMED

Home News LG Election 2016 Editorial Features K2 Opinions Sports Focus Point

NATIONAL GEOGRAPHIC
UNIQUE LODGES OF THE WORLD
Stay where st meets sp

Home / News / Bhutan to launch its first satellite in 2018

Bhutan to launch its first satellite in 2018

October 21, 2016 News Leave a comment 6,798 Views

Around USD 280,000 will be spent on the effort

Space: Bhutan's first satellite, a nano-satellite (nanosat) or a CubeSat is expected to be in space by the mid of 2018. This will be the country's first venture into space technology.

The CubeSat will weigh about a kilogram and will be around 10cm in length.

Three Bhutanese engineers, Yeshey Choden, Kiran Kumar Pradhan and Cheki Dorji will be the

<http://www.kuenselonline.com/bhutan-to-launch-its-first-satellite-in-2018/>
on 29 October 2016.

Kuensel is the biggest newspaper in Bhutan

BBS LIVE RADIO STREAMING

HOME BBS 2 BUSINESS CRIME/LEGAL ENV/SCI/TECH POLITICS SOCIAL SPC

ZAKAR ANNOUNCEMENT ARCHIVE RADIO

English | Dzongkha

Bhutan to launch its first satellite in next two years

Damcho Zam, Thimphu
Oct 21 2016

<http://www.bbs.bt/news/?p=62989>
on 29 October 2016

10. Bhutan students arrive at Kyutech

福岡空港
FUKUOKA AIRPORT

九工大
の正門
Main
Gate of
Kyutech



Arrival Area
International Terminal
Fukuoka Airport
Fukuoka Prefecture

3 November 2016 文化の日
Near 9:00 AM JST
(just arrived from Bangkok)

From Left to Right:

- Yeshey Choden
- Cheki Dorji
- Kiran Kumar Pradhan



11. Group photos of BIRDS-1 and BIRDS-2 teams



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Kitakyushu, Japan.



Project website: <http://birds.ele.kyutech.ac.jp/>



Friday, 4 November 2016, Tobata Campus, Kyutech

← The group photo shown on the cover page contains all members of both teams



12. BIRDS-2 Project Kick-Off Meeting



6:00-7:00 PM, Monday, 7 November, 2016
Cho Lab Seminar Room, Building S-2,
Tobata Campus, Kyushu Institute of Technology,
Kitakyushu City, Japan.



Prof. Cho outlines the 2-year agenda for the **BIRDS-II Project** and lays down some ground rules.



Minimization of waste

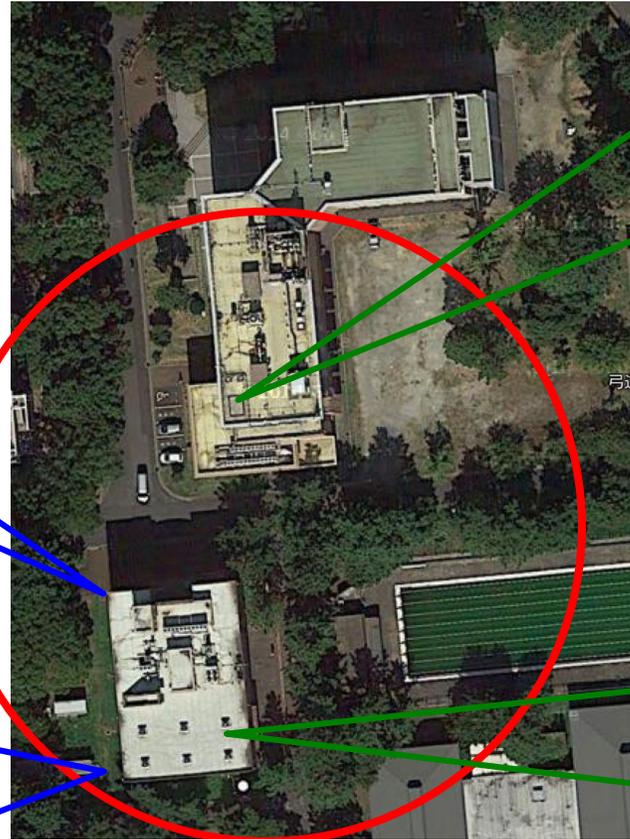
- Minimize waste of “waiting” and “moving”



Office & work room (3F)



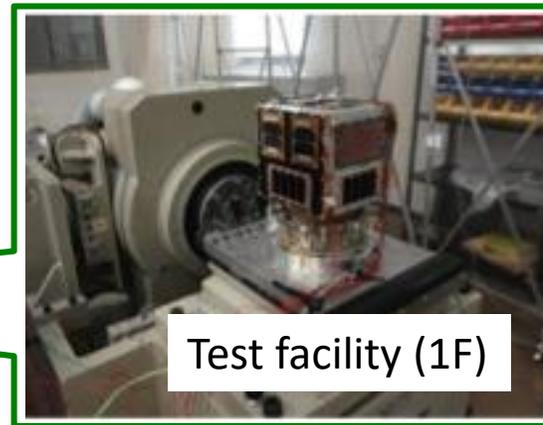
Clean room (3F)



Radius of the project (30m)



Ground Station



Test facility (1F)

One message of the Kick-Off Meeting

Key elements of “lean satellite development” were discussed during this first meeting of BIRDS-2 Project.

**Be
Lean**

基本的なルール

The Ten Rules

for BIRDS
engineers, now
and forever



1. No Excuses
2. Be on time
3. Respect others
4. Be responsible
5. Watch the schedule
6. Act as a team player
7. Maintain a long view
8. Be clean
9. Work hard
10. Have fun

Another message of
the Kick-Off Meeting

BE PUNCTUAL AND INSIST
ON IT IN OTHERS.

THERE IS NO
SUBSTITUTE
FOR HARD WORK

Thomas Edison

END OF ISSUE NO. 10