



# BIRDS Project Newsletter

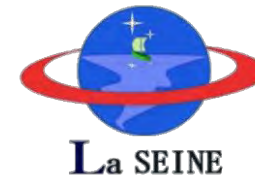
Issue No. 6 (12 July 2016)



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





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O-yama-gasa  
Festival*



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# 1. BIRDS Project described during 2016 COPUOS Meeting in Vienna

<http://www.unoosa.org/oosa/en/ourwork/copuos/technical-presentations.html#copuos2016>



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COPUOS 2016 > Technical Presentations

## Technical Presentations made at the Committee on the Peaceful Uses of Outer Space

The following presentations were made at the sessions of the Committee on the Peaceful Uses of Outer Space.

Friday, 10 June 2016

### Open Universe Initiative

P. Giommi (Italy)

### UN/Japan Long-term Fellowship Programme on Nano-Satellite Technologies

G. Maeda (Japan)

### Education Under the United Nations/Japan (PNST) Program: Perspectives of a Graduate

H. Almubarak (Sudan)



In this photo you can see the flags of the BIRDS nations.

On 10 June 2016, George Maeda (the editor of this newsletter, pictured above) delivered a *Technical Presentation* during the 2016 COPUOS Meeting in Vienna. The presentation file can be easily downloaded from the web link shown in **brown** above. **BIRDS Project** is mentioned in this presentation.

[Click on this title to download the presentation file.](#)

After Maeda's presentation, Hala (ISRA, Sudan) described her PNST experiences at Kyutech.



## 2. BIRDS Workshop: The Official Program (Agenda)

### First International BIRDS Project Workshop and Critical Design Review

The Tobata Campus of Kyushu Institute of Technology (Kyutech), Japan

#### Monday, June 27, 2016, DAY 1

09:30	Greeting
09:45 - 11:00	Introduction of Kyutech Space Engineering Research and Education, by Prof. M. Cho.
11:00 - 11:15	Coffee Break
11:15 - 12:15	Tour of facilities, Part I.
12:15 - 13:15	Lunch
13:15 - 14:15	Tour of facilities, Part II
14:15 - 14:40	Coffee Break
14:40 - 16:10	<i>Presentation by each BIRDS project partner</i>
	<i>10 minutes brief presentation from each project partner (ANUC, NUM, FUTA, BRAC, KMUTNB, NCKU) about the future plans for space research and education, and other relevant topics. 5 minutes Q&amp;A</i>
16:10 - 16:40	Break & Photo
16:40 - 18:10	Discussion on Cross-border Inter-University Collaboration on Space Research and Education
18:30	Bus departure for reception
19:15 -	Reception (informal dinner for everyone to chat and socialize); Venue: THE BLUE <a href="https://www.the-blue-riverwalk.com/">https://www.the-blue-riverwalk.com/</a> (Kokura)

#### Tuesday, June 28, 2016, DAY 2

09:00 - 10:30	Critical Design Review, Part I.
10:30 - 10:45	Coffee Break
10:45 - 12:00	Critical Design Review, Part II.
12:00 - 13:00	Lunch
13:00 - 15:30	Critical Design Review, Part III
13:00 - 15:30	Optional tour of Kyutech campus facilities on non-space related research and education
15:30 - 16:00	Coffee Break
16:00 - 18:00	Meeting between students and professors from their home institutions.
16:00 - 18:00	Technical Discussion on ground station network

#### Wednesday, June 29, 2016, DAY 3

09:30 - 10:30	Preparation and briefing on press conference
10:30 - 12:00	Press conference (Horyu Kai Kan)
12:00 - 13:00	Lunch
13:00 - 13:15	Signing of Letter of Intent
13:15 - 14:30	Discussion on AOB (Any Other Business) and Wrap-up





### 3. Overseas guests arrive (random sample)



President of NUM, Prof. Bat-Erdene Regsuren, red tie, arrives at Kyutech.



Mr Bonsu welcomes Dr Carlene Kyeremeh (vice president, ANUC, Ghana) at Kitakyushu Airport with flowers.



Mongolian journalist working in Osaka.



The first coffee break  
(Nakamura Memorial Hall)



Dr Huda and Dr Idnin, UiTM, Malaysia.



Prof. Jyh-Ching Juang of NCKU, Taiwan.

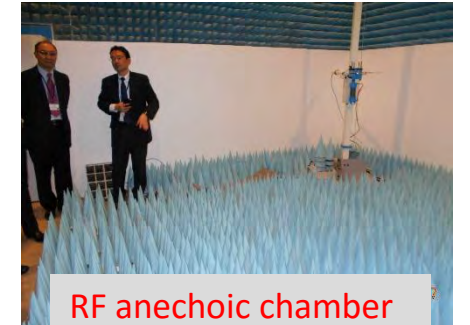


# 4. Tour of facilities

Walking from Nakamura Hall to LaSEINE building



DAY 1 : Monday, 27 June, 2016.



Prof. Cho was the tour guide.

Ground Station Control Room



UHF/VHF steerable antenna



S-band parabolic antenna





# 5. Afternoon of Day 1

A presentation was given by each participating BIRDS partner: Japan, Ghana, Mongolia, Nigeria, Bangladesh, Taiwan, and Thailand.



Lunch of Day 1  
(café of Nakamura Hall)



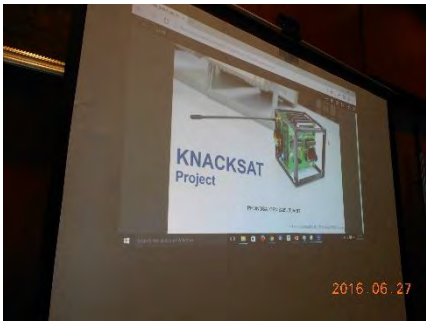
Thailand Team  
(Dr Pom, Dr Ammarin, Apiwat)



President of Kyutech  
(Prof. Oie, far right)



Mr. Oikawa  
of JAXA. 



Presentation by Thailand  
(Dr. Phongsatorn Saisujarit)



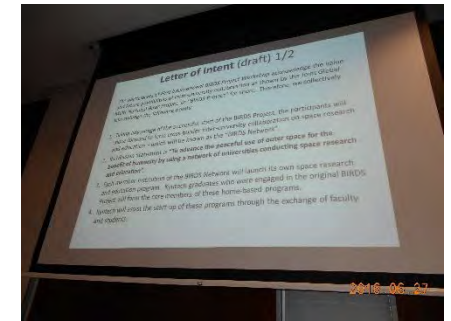
Presentation by BRAC  
(Prof. Rhaman calls in from Bangladesh)



Presentation by Taiwan  
(Prof. Jyh-Ching Juang)



Meeting Room  
(2nd floor of Nakamura Hall)



Discussion of the LOI  
(Letter of Intent)  
-- real time editing by Wakabayashi-san

## 6. Official Group Photo of the workshop

The founding members of the “**BIRDS Network**” (June 2016, Tobata Campus)



This group photo was taken by Mr Wakabayashi (Kyutech, International Affairs Division) during the afternoon coffee break of Day 1 (27 June 2016) of the workshop. President of Kyutech is sitting dead center. The woman next to him is Dr. Carlene of ANUC, Ghana; the man next to him is Prof. Bat-Erdene Regsuren (red tie), President of the National Univ. of Mongolia. Prof. Cho is at the far right of this photo.



# 7. Workshop reception (in Kokura)

Prof. Oie  
(President of  
Kyutech)  
delivers the  
Welcome  
Speech.



- ① Prof Cho explains **Kokura Castle**. 慶長 7 年 (Yr.1602) 細川忠興公が築城した名城、小倉城。
- ② After Kyutech President Oie gave the toast, everyone gripped their glasses and said **乾杯!!**
- ③ Ghana team: Joseph, Ernest, Dr. Carlene, Benjamin
- ④ Prof. Yamaguchi (Vice President of Kyutech) and Nana (journalist from Ghana).



**More photos on next the page.**





**Taiwo and the students of the BIRDS Team**

**Bangladesh Team**

**Kokura Castle**

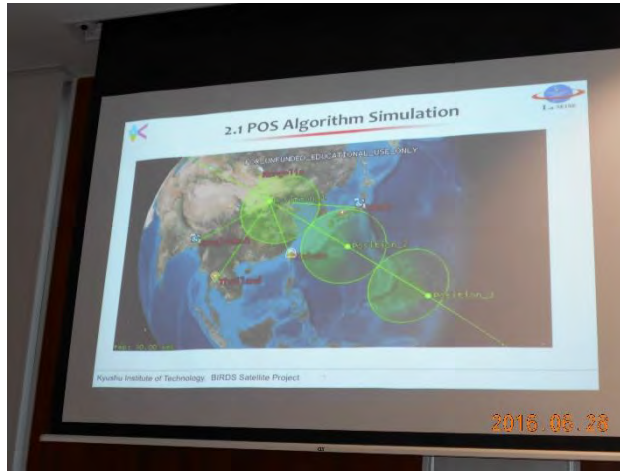


The photos on this page are from Dr. Kim, Assistant Professor, LaSEINE. Kyutech.



# 8. DAY 2 – Critical Design Review (CDR)

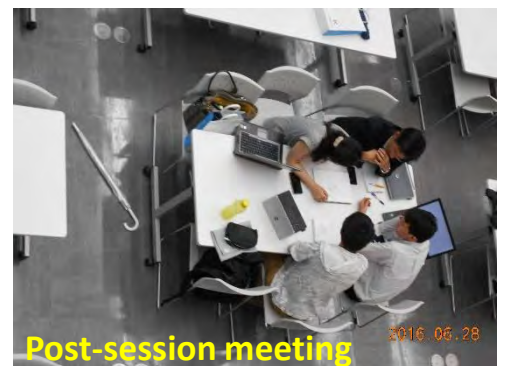
Each BIRDS student delivered a 15-20 minute presentation, one by one.



Ernest (Ghana) explains POS algorithm simulation – “POS” means position determination of each BIRDS satellite using the BIRDS ground station network. BIRDS carries no GPS.



## Special Session on Ground Station Network (16:00-18:00)





# 9. DAY 3 – Press Conference

... preparation ...



TV station cameras



Dr Carlene and Prof. Kikuchi



Prof. Rhaman participates from Bangladesh.

Continued on the next page





Above: **Main Panel** - Prof. Oie (President of Kyutech), Prof. Cho (PI of the BIRDS Project), and Taiwo (BIRDS Project Manager).



**Sub-panel:** Prof. Rhaman (Bangladesh), Dr Carlene (Ghana), Prof. Bat-Erdene Regsuren (Mongolia), Dr. Pom (Thailand), Dr Jyh-Ching (Taiwan), and Ogawa-san (JAXA, nearest to the camera).

BIRDS Workshop Press Conference



Above: Taiwo delivers the main presentation (in English).  
Below: One of his slides.



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Above and below:  
Many questions from Mainichi, Yomiuri, NHK, FBS, etc.







Above: Special gift from Mongolia.



Above: Three mock-ups of the BIRDS satellites.



Final moments of the press conference



← NHK crew shoots a mock-up.



# 10. “Letter of Intent” (LOI) Signing Ceremony

Right after lunch on Day 3



Kyutech President signs on behalf of Kyutech.



Kyutech Vice Pres. signs on behalf of Kyutech.



President of NUM signs on behalf of Mongolia.



Vice President of ANUC signs on behalf of Ghana.



Prof. Jyh-Ching Juang signs on behalf of Taiwan.



Dr. Phongsatorn Saisujarit on behalf of Thailand.



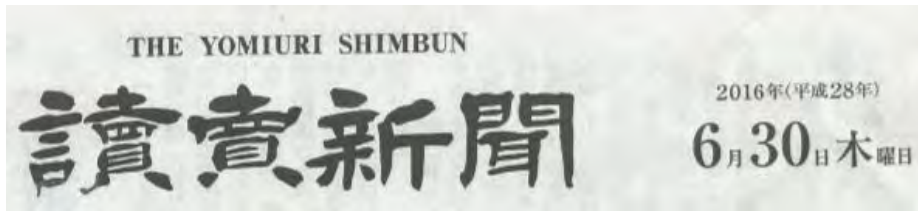
Student Kafi signs on behalf of Bangladesh.



This document formulates the start of the “BIRDS Network” – a human network of all BIRDS entities.



# 11. Article by Yomi-uri on the day after the press conference



How newspapers are sold in Japan (in small shops all over the nation)



各国からの留学生を指導し、宇宙開発技術が進んでいない国の技術向上と国際的連携を目指す取り組み。

## 「技術学び各国の基礎に」

九州工業大（北九州市戸畑区）は29日、アジア・アフリカ6か国・地域の留学生らと超小型衛星4基を開発する計画を発表した。2017年度までの打ち上げを目指す。

## 6か国・地域の留学生らと

# 九工大 超小型衛星開発へ

ガーナ、ナイジェリア、タイ、モンゴル、バンクアラテ、台湾の出身で、同大学院に在籍する留学生と、日本人学生の計15人が参加する。

●衛星の開発に取り組み留学生ら●開発する超小型衛星の模型

衛星は1辺約10センチの立方体で、重さ1〜30グラム。打ち上げ後は宇宙航空研究開発機構（JAXA）の国際宇宙ステーション（きぼう）から宇宙空間に放出される予定。搭載カメラによる撮影や音楽配信などができ、留学生らは各国の地上局で衛星の運用技術も習得する。

留学生らは昨年10月から設計などを学んでいる。計画を主導する同大学院の趙孟佑教授（宇宙工学）は「衛星の開発から運用までの技術を学んでもらう、各国の宇宙プロジェクトの基礎になるよう願っている」と、ナイジェリアのテジューモラ・タイウォさん（35）は、各国の学生が競争や協力をしながら、開発する衛星の質を向上させたいと語った。

“While training students from six countries/regions, Kyutech pushes forward with the development of ultra small satellites”, is roughly what it says.





# 12. Article by Mai-nichi on the day after the press conference



Basically these headlines say that Kyutech is implementing the **BIRDS Project** with grad students from Japan and six countries overseas. The targeted launch time is Fiscal Year 2017.



The Big Four newspapers of Japan are:

- Yomi-uri
- Mai-nichi
- Nihon Keizai
- Asahi



# 13. BIRDS Project presented on TV in Bangladesh

"Ekattor TV" telecast (2.5 min) on 9 July 2016 in Bangladesh.



A few words about the ISS



Assembly of the BIRDS satellite



Cubesat deployment from the ISS



Prof. Rhaman explains the goals



Working in the BIRDS clean room



Kafi, Antara, and Maisun

View the video here: <https://www.facebook.com/ekattor.tv/videos/1110417319030895/>





# 14. Tobata Gion Oyamagasa Festival 戸畑祇園大山笠祭

July 22, 2016  
- July 24, 2016

A tradition of the 200-year-old Tobata Ward, **Tobata Gion Oyamakasa** is a summer festival held at the end of every July by Tobata Hachimangu Shrine, Sugawara Shrine, and Nakabaru Hachimangu Shrine. During the day, the Nobori Yamakasa floats (which are said to be what all original Yamakasa floats looked like) are draped with beautiful gold and silver embroidered cloth and paraded through the streets in their magnificence.

At night, however, these decorations are taken down and replaced with 309 paper lanterns covering the 12-tiered floats, transforming them into pyramids of light! Each of the 10 meter (about 33 feet) tall, 2.5 ton lantern floats are shouldered by about 60 men who shout “Yoitosa, yoitosa!” to the rhythm of gongs and drums! Tobata Gion Oyamagasa Festival celebrated its 200th anniversary in 2003.

From:

<http://www.crossroadfukuoka.jp/en/event/?mode=detail&id=400000001255>



Festivities are not far from Tobata Campus of Kyutech.





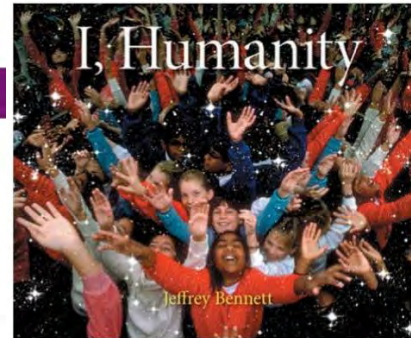
## Astrobiology & Outreach

Editorial

Haubold and Balogh, *Astrobiol Outreach* 2015, 4:1  
<http://dx.doi.org/10.4172/2332-2519.1000e113>

### I, Humanity

Book cover



Open Access

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**Rec date:** November 03, 2015; **Acc date:** November 05, 2015; **Pub date:** November 09, 2015

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## Editorial

On a continuing basis in the past twenty five years we have reported on the long-term initiative of the United Nations Programme on Space Applications of the Office for Outer Space Affairs of the United Nations, known under the term 'basic space science', covering the three pillars of research, education, and applications of fundamental knowledge for the benefit of human kind. The research part of this initiative was exercised through annual United Nations workshops, hosted and supported by member States and their respective space agencies (<http://www.unoosa.org/oosa/en/ourwork/psa/bssi/index.html>). The education part was exercised through UN-affiliated Regional Centres for Space Science and Technology Education (<http://www.unoosa.org/oosa/en/ourwork/psa/regional-centres/index.html>). The time range of this initiative extended from 1990 to 2015 with most recent activities hosted by Austria ([http://www.unoosa.org/oosa/en/ourwork/psa/schedule/2014/austrian\\_symposium\\_space\\_science.html](http://www.unoosa.org/oosa/en/ourwork/psa/schedule/2014/austrian_symposium_space_science.html)) and Japan (<http://aas.org/posts/news/2015/03/report-unjapan-workshop-space-weather>).

To be released in November (2015) but already available for individual distribution is the book with the above title, written by a renowned researcher and educator in astronomy and astrophysics:

The beautifully illustrated, 32-page book tells the story of how humanity has gone from ancient conceptions of a small, flat Earth to our modern understanding that we live on one planet, orbiting one star, in a vast and amazing Universe. Using a first person narrative, the story is told in a way that will make every child of every culture feel that they are a part of this fantastic journey of discovery through history. In this sense, the book summarizes what the UN initiative has sought to achieve over a quarter century, building upon past dissemination efforts that have included thousands of ESA/NASA Hubble Space Telescope DVDs and comprehensive in-depth curricula for space science and technology education ([http://www.unoosa.org/oosa/en/ourwork/psa/regional-centres/study\\_curricula.html](http://www.unoosa.org/oosa/en/ourwork/psa/regional-centres/study_curricula.html)). Author/astrophysicist Jeffrey Bennett will make available a limited number of free copies of this book through the Office for Outer Space Affairs of the United Nations. In addition, the book is scheduled to be launched in December to the International Space Station, where it will be read aloud by astronauts for the Story Time from Space program (<http://storytimefromspace.com>), with the video reading posted freely on the web for educational use anywhere in the world. The book is also available in Spanish (both print and e-book) and Japanese (e-book only). Author Jeffrey Bennett also invites translations into other languages, as he can offer low-cost book production and donation of copies for educational use; contact him directly ([jeff@bigkidsscience.com](mailto:jeff@bigkidsscience.com)) if you are interested in this possibility.

**PNST is a beneficiary of UNOOSA support.**

**END OF ISSUE NO. 6**