



UNISEC-Global The 68th Virtual Meeting

May 16th, 2026, 22:00-24:00
(Standard Japan time GMT +9)

68th Virtual UNISEC-Global Meeting

Hosted by UNISEC GLOBAL

Theme: CLTP 15th Anniversary Session (1) ~How CLTP Changed My Life~

Date: May 16, 2026 Time: 22:00-24:00(JST)

REGISTER NOW

Moderator

Charleston Ambatali,
University of the
Philippines Diliman

CLTP4 Alumni

Zolana Rui João

General Manager, Angolan Space Office
Gabinete de Gestão do Programa Espacial
Nacional (GGPEN)

CLTP1 & CLTP7 Alumni

Mohammed Khalil Ibrahim Iraqi

Professor, Department of Aerospace Engineering,
EGYPT-JAPAN University of
Science and Technology

			<p style="margin: 0;">Willy Cabañas Alexandar</p> <p style="margin: 0; font-size: small;"> </p>	

The following report was prepared by UNISEC-Global Secretariat
May 16, 2026
Japan

Table of Contents

1 Opening Remarks: CanSat Leader Training Program (CLTP)	3
Rei Kawashima, UNISEC-Global.....	3
2 Presentation on "CLTP-15 Years Journey"	3
Mohammed Khalil Ibrahim, Egypt-Japan University of Science and Technology	3
3 Video Presentation on "Experience with CLTP"	5
Zolana Rui João, Angola Space Agency.....	5
4 Corporate Member Introduction on "JAOPS Inc."	6
Alejandro Sela, JAOPS Inc.	6
5 Announcement & Acknowledgement	6
Haruka Yasuda, UNISEC-Global	6
6 Participant Statistics	8

1 Opening Remarks: CanSat Leader Training Program (CLTP)

Rei Kawashima, UNISEC-Global

Rei Kawashima serves as the Chairperson of UNISEC-Global, an international non-governmental organization dedicated to practical space engineering education. A pioneering figure in the micro and nano-satellite community, she co-founded the University Space Engineering Consortium (UNISEC) in Japan in 2002 to help university students design, build, and launch small satellites. Under her leadership, UNISEC-Global was established in 2013 and later attained permanent observer status at the United Nations Committee on the Peaceful Uses of Outer Space (UNCOPUOS). She is a key organizer of international hands-on initiatives like the CanSat Leader Training Program (CLTP), which began in 2010 to prepare future space educators and enable university students across the globe to participate in real space projects. For her tireless advocacy in global capacity building and space safety, Kawashima was elected as a full member of the International Academy of Astronautics (IAA) and received its highest section distinction, the Social Sciences Award, in 2020.



Pictured: Rei-san giving the opening remarks to the 68th UNIGLO Virtual Meeting

Highlights:

- The CanSat Leader Training Program started in 2010
- The very first students were welcomed in 2011
- Dr Mohammed Khalil Ibrahim was one of the first participants
- The Tohoku earthquake occurred right after the first training session
- The first CLTP was held in Wakayama prefecture
 - Wakayama is typically a very warm place
 - Heavy snow unexpectedly fell during that specific year
 - Buses were entirely unavailable due to the heavy snow
 - Participants had to walk one hour from the university to their hotel
- **The program is celebrating its 15th anniversary this coming August**
- The primary goal is to enable university students to join real space projects
- **This opportunity should be made available in every single country**

2 Presentation on "CLTP-15 Years Journey"

Mohammed Khalil Ibrahim, Egypt-Japan University of Science and Technology

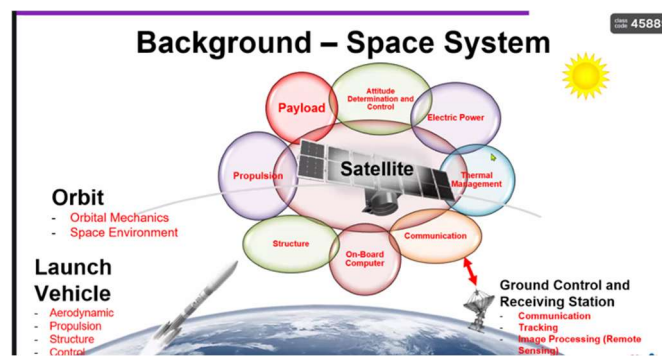
Dr. Mohammed Khalil Ibrahim is a Professor at the Aerospace Engineering Department at Egypt-Japan University of Science and Technology (E-JUST) He received his BS and MS in Aerospace Engineering from Cairo University and earned his PhD from Nagoya University in Japan. He has extensive industry experience working at Volvo Car Corporation and Mitsubishi Heavy Industries.



Pictured: Dr. Ibrahim was one of the first participants of CLTP

Highlights:

- **The CLTP aims to prepare future CanSat educators worldwide**
 - This educational preparation is accomplished through hands-on training
 - The ultimate vision is global student participation in space projects by 2030
- The CanSat concept was originally proposed by Professor Bob Twiggs in 1998
 - He proposed the idea during a conference in Hawaii
 - This led to the creation of the ARLISS project in Nevada
- Basic CanSats are launched sub-orbitally to around 3600 meters
- CanSats drop with a parachute and descend for 10 to 20 minutes
- CanSats communicate telemetry with a ground station during descent
- Alternative launch methods are frequently utilized for testing
- CanSats can be dropped using balloons or drones and can also be dropped from high-rise buildings
- “Bring Back” CanSats navigate back to a specific target automatically
 - They rely heavily on GPS for navigation
- **Dr Ibrahim's personal journey with CLTP spans 15 years**
 - Joined CLTP 1 as a participant in Wakayama in 2011
 - Joined CLTP 7 in Hokkaido as a participant in 2016
 - Served as a teaching assistant for CLTP 8 in Chiba in 2017
- CLTP 7 and CLTP 8 officially introduced the HEPTA-Sat training curriculum
 - **HEPTA-Sat functions as a 1U educational CubeSat**
- After CLTP 1 he started the CanSat program at Cairo University
 - Successfully established the Space System Technology Lab there
- Eventually founded the Aerospace Engineering Department at E-JUST
- First batch of students will begin studying space systems next autumn
- Actively promotes space education across the African continent, **delivered kits to six African countries**
- Outreach was done in cooperation with the African Space Agency
- Dr Ibrahim shared key engineering lessons from his early CLTP experiences
 - Two CanSats experienced free falls during the Wakayama launch
 - Parachutes separated due to extreme shock loads reaching up to 20g
 - Engineers must carefully manage shock loads on physical connections
 - Flight data should always be saved on an onboard SD card as a plan B



Pictured: Dr. Ibrahim presenting about components of a space system

Q&A Session:

Q: Nasira Ahmad: How can Afghan students and engineers receive technical training from UNISEC Japan or partner universities?

A: Mohammed Khalil Ibrahim: *They should apply for the upcoming CLTP 15 before the deadline Faculty from Afghanistan can be dispatched to directly learn the cycle. They can then successfully disseminate the knowledge back in their home country*

Q: Charleston: Do you remember any specific lesson you learned from CLTP that you applied directly?

A: Dr. Mohammed Khalil Ibrahim: *During the first launch in Wakayama two CanSats experienced a free fall. The parachutes separated due to high shock loads reaching up to 20g. This incident taught us the critical importance of managing shock loads on connections. It is also highly critical to have a plan B in case of lost communication Flight data should always be saved on an onboard SD card. Comeback CanSats require control algorithms like Kalman filtering if the GPS signal is lost.*

Freddy: I want to thank Rei and Khalil for the amazing experience. This program was my very first international space experience. I brought CLTP back to the National University of Engineering in Peru. Our students are now going to Japan and building actual CubeSats.

3 Video Presentation on “Experience with CLTP”

Zolana Rui João, Angola Space Agency

Dr. Zolana Rui João is the head of the Angola Space Agency (GGPEN) and one of Africa's leading space pioneers, widely recognized for transforming Angola into a rising force in the global space economy. As the founding General Manager of Angola's National Space Program, he successfully led the launch of AngoSat-2. He also currently chairs the SADC shared satellite project, uniting 16 nations to design Africa's first jointly owned regional satellite. Due to connection difficulties, Dr. João delivered his presentation via a pre-recorded video message.



Pictured: Dr. João sharing his CLTP experience through a recorded video

Highlights:

- Participated in the CLTP 4 cohort around 15 years ago
- Angola did not even have a space program during his initial training
- The engineering training was deeply impactful but the community values mattered most
- Ms. Rei Kawashima gave him the strength and belief to continue his journey
- His CanSat parachute drifted away due to high wind speeds during testing
- The satellite was lost in the forest after 30 days of incredibly hard work
- **A group of Japanese students and professors went out to successfully recover it**
 - **This incident taught him that a true leader must put others first**

- **Angola has now successfully launched two national satellites including AngoSat-2**
- The country currently leads 16 regional nations to build a shared communication satellite
- Angola is proud to be an active member of the Artemis Accords
- **The Angolan space program is ranked among the top five in all of Africa**

4 Corporate Member Introduction on “JAOPS Inc.”

Alejandro Sela, JAOPS Inc.

Alejandro Sela is the founder of JAOPS Inc., a newly joined corporate member of UNISEC-Global.



Pictured: Alejandro seen during his speech

Highlights:

- JAOPS was founded a couple of years ago
- It was created because many new space companies do not take satellite operations seriously enough
- The company's primary objective is to provide operations as a service
- Building a comprehensive mission control center (MCC) from scratch
- Services include full infrastructure, simulations, and operations automation
- The team has already worked on eight different mission control centers
- Past high-profile projects include MCCs for the ISS and the iSpace lunar lander
- Handle everything related to operations including consulting and turnkey MCC implementations
- **A major benefit for the UNISEC community is the commitment to open-source infrastructure**
- Every tool they utilize is freely available with accompanying manuals
- **The company is willing to provide direct technical support if required**

5 Announcement & Acknowledgement

Haruka Yasuda, UNISEC-Global



Pictured: Yasuda-San announcing the latest updates from UNISEC-Global

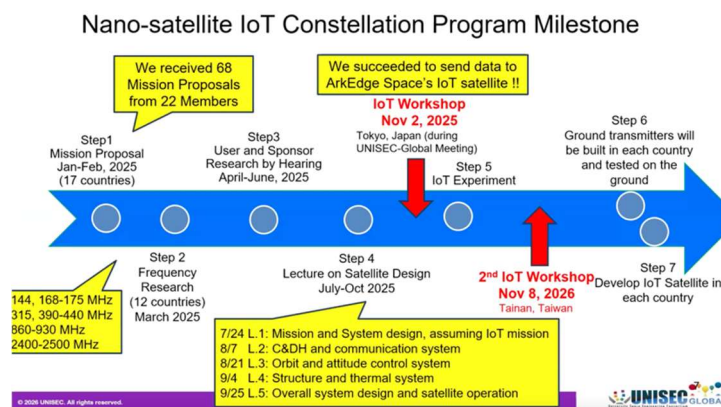
Highlights:

- **CLTP15 (CanSat/ CubeSat Leader Training Program)**
 - Date: August 18 – 28, 2026
 - Venue: Nihon University, Chiba, Japan
 - **Deadline: May 21, 2026**
 - Information: <https://cltp.info/cltp15.html>
 - Contact : secretariat@cltp.info
 - Application: <https://cltp.info/application.html>

- **Next Venue Announcement**
 - **The 12th UNISEC-Global Meeting**
 - **To be held online**
 - To facilitate all POC and students from all local chapters to participate
 - Details will be announced later
 - In person **POC** gathering at Antalya, Türkiye, afternoon
 - **October 4, 2026**, in conjunction with IAC (T.B.D)
 - **15th Nano Satellite Symposium to be held at Tainan, Taiwan**
 - November 8 – 12, 2026, with
 - PreMIC10
 - 2nd IoT Workshop
 - 3rd Deep Space Workshop

- **15th Nano-Satellite Symposium**
 - Call for paper:
 - <https://tasti2026.conf.tw/site/mypage53.aspx?pid=101&lang=en&sid=1691>
 - **Abstract submission deadline: August 23, 2026**
 - Website: <https://tasti2026.conf.tw/>

- **The Mission Idea Contest Completed**
 - The 10th Mission Idea Content Preliminary Workshop
 - **Theme: Orbit Change Without Using a Propulsion System**
 - <https://www.spacemic.net/>
 - **Important Completed Dates:**
 - Abstract submission due : June 18, 2026
 - Notification : September 3, 2026
 - Software submission due : End of September
 - Presentation at PreMIC10 : November 9, 2026
 - Contact: info@spacemic.net



Pictured: IoT constellation program milestone

- **Nano-satellite IoT Constellation Program**
 - A new program launched by UNISEC-Global
 - Jointly design satellite bus (3-6U) with online guidance
 - Each satellite will be developed by each country with its own funding
 - If difficult, we will jointly search for international funds
 - All the satellites have the **same mission payload**

- Contribute to solving global problems or local problems as a constellation
 - Each country can have **one specific mission payload** for its own interest
 - Web: <https://unisec-global.org/iot.html>
 - Interested ones can submit the form here: <https://forms.gle/WcdvQ9GiQV9rxssj6>
 - The IoT workshop was held on November 2 at the 11th UNISEC-Global Meeting
 - Contact: iot@unisec-global.org
 - Experiment IoT transmissions to ArkEdge satellite: iot-support@unisec-global.org
- **Launch Opportunity: J-Cube**
 - Special Discounted opportunities
 - 1U, 2U, 3U, deployment from International Space Station
 - Collaborate with UNISEC-Japan's University
 - Technical support will be provided, **application deadline: August 13, 2026**
 - Contact: info-jcube@unisec.jp ,
<http://unisec.jp/serviceen/j-cube>
- **Next Virtual Meeting**
 - Date: June 16, 2026
 - Theme: CLTP 15th Anniversary Session (2)
 - Host: UNISEC-Global

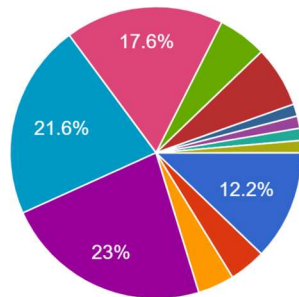
6 Participant Statistics

74 registered participants from 28 countries and regions for the 68th Virtual UNISEC-Global Meeting.

Country/Region	Registrants	Country/Region	Registrants
Afghanistan	2	Mauritania	1
Angola	1	Mexico	1
Argentina	1	Namibia	1
Australia	2	Nigeria	9
Austria	1	Peru	2
Bulgaria	5	Philippines	4
Colombia	2	Romania	1
Dominican Republic	1	Taiwan	2
Egypt	4	Tanzania	2
Guatemala	1	Uganda	2
India	6	UK	1
Indonesia	1	USA	4
Japan	14	Zambia	1
Kenya	1	Zimbabwe	1

Student or professional?

74 responses

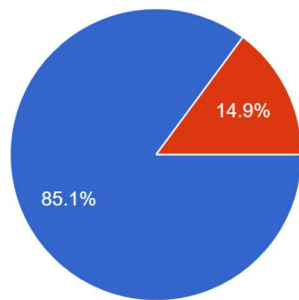


- Student (undergraduate)
- Student (master)
- Student (PhD candidate)
- Student (other)
- Professional (university)
- Professional (government, space age...)
- Professional (private company)
- Professional (NGO)

▲ 1/2 ▼

Have you participated in the UNISEC-Global Meeting previously?

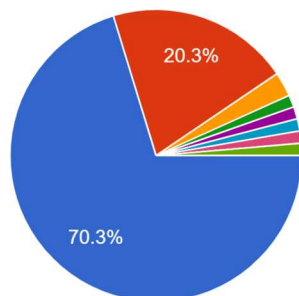
74 responses



- Yes
- No

Are you interested in joining CLTP(CanSat/CubeSat Leader Training Program) ?

74 responses



- Yes
- No
- CLTP 10 Alumni
- May be
- Interesting
- I'm a staff of UNISEC.
- I already participated time ago.
- I am CLTP-1 participant

UNISEC-Global Social network accounts



@unisecglobal
<https://www.facebook.com/unisecglobal/>



@unisec_global
https://www.instagram.com/unisec_japan/



<https://www.linkedin.com/groups/8982613/>

Thank you