UNITED NATIONS
Office for Outer Space Affairs

KiboCUBE Academy

1. Overview

KiboCUBE is the long-standing cooperation between the United Nations Office for Outer Space Affairs (UNOOSA) and Japan Aerospace Exploration Agency (JAXA) that offers developing countries with the opportunity to deploy a Cube Satellite (CubeSat) from the International Space Station Kibo module. The winning teams will need to develop, operate and utilize their CubeSats.

This is why we are conducting a new series of technical webinars to help future applicants: the KiboCUBE Academy! The KiboCUBE Academy will help applicants for the KiboCUBE programme gain technical knowledge about how to actually design, develop and test their CubeSat, how to operate it once it is in space, and how to utilize the data that they acquire from their CubeSats to develop useful applications on Earth. It will also support to build a better plan for the project. Experts from JAXA and collaborating Japanese Universities will conduct detailed lectures and answer questions about the technical aspects for participating in KiboCUBE. Teams who plan to apply to the 6th round of KiboCUBE are strongly recommended to take part.

Each webinar will be held once as the following schedule. All webinars will be recorded and will be uploaded to the UNOOSA website until the end of March along with the presentations.

Credit: JAXA

2. Schedule

*All topics include time for questions and answers in the allocated time.

(1) Thursday 14 January 2021

13:00-15:00 CET / 21:00-23:00 JST (Click to access to zoom meeting)

MC: Hazuki MORI (UNOOSA)

Speaker: Yasuko SHIBANO (JAXA)

Toshinori KUWAHARA (Associate Professor, Tohoku University)

Topic	Time
Introduction to KiboCUBE Academy	15 min
CubeSats Change the World	45 min
Introduction to CubeSat Technologies	60 min

(2) Thursday 21 January 2021

13:00-15:00 CET / 21:00-23:00 JST (Click to access to zoom meeting)

MC: Hazuki MORI (UNOOSA)

Speaker: Shinichi NAKASUKA (Professor, University of Tokyo)

Topic	Time
Overview of Satellite Development Process	60 min
How to Make Your Satellite Survive in Space	60 min

(3) Thursday 28 January 2021

13:00-15:00 CET / 21:00-23:00 JST (Click to access to zoom meeting)

MC: Hazuki MORI (UNOOSA)

Speaker: Mengu CHO (Professor, Kyushu Institute of Technology)

Topic	Time
Introduction to Satellite Testing	60 min
CubeSats for Capacity Building	60 min

(4) Thursday 4 February 2021

13:00-15:00 CET / 21:00-23:00 JST (Click to access to zoom meeting)

MC: Hazuki MORI (UNOOSA)

Speakers: Toshinori KUWAHARA (Associate Professor, Tohoku University)

Shinichi NAKASUKA (Professor, University of Tokyo)

Mengu CHO (Professor, Kyushu Institute of Technology)

Topic	Time
Satellite Operation and Related Regulations	45 min
Q and A	75 min

3. Speaker Biography

Speaker	Biography
Toshinori KUWAHARA (Associate Professor, Tohoku University) 	**Research Topics:** Space Development, Utilization, and Exploration by Small Spacecraft Technologies **Position:** 2015 - Associate Professor, Department of Aerospace Engineering, Tohoku University 2017 - Technical Advisor, Nakashimada Engineering Works, Ltd. 2017 - Technical Advisor, ALE, Ltd. 2020 - Chairperson, University Space Engineering Consortium Japan (UNISEC)
Shinichi NAKASUKA (Professor, University of Tokyo) 	**Research Topics:** Micro/nano/pico-satellites, Novel Space Systems, Guidance, Navigation and Control Autonomy and Intelligence for Space Systems **Position:** 1990 - Lecturer, Department of Aeronautics and Astronautics, University of Tokyo 1993 - Associate Professor, University of Tokyo 2004 - Professor, University of Tokyo 2012 - Member of Space Policy Committee, Cabinet Office 2013 - Chairperson, UNISEC-GLOBAL
Mengu CHO (Professor, Kyushu Institute of Technology) 	**Research Topics:** Spacecraft Environment Interaction, Lean Satellite **Position:** 2004 - Professor, Department of Space Systems Engineering* Director, Laboratory of Lean Satellite Enterprises and In-Orbit Experiments, Kyushu Institute of Technology, Japan 2014 - Visiting Professor, Nanyang Technological University, Singapore 2013 - Coordinator, United Nations/Japan Long-term Fellowship Programme, Post-graduate study on Nano-Satellite Technologies (PNST)