

5th UNISEC-Global Meeting Photo Report



Sapienza-University of Rome, Italy
2-4 December, 2017

Day 1 (Dec 2, 2017)

Opening Ceremony



Video message from
Simonetta Di Pippo, UNOOSA Director



Fabio Santoni
Sapienza – University of Rome



Rei Kawashima
UNISEC–Global



Maria Sabrina Sarto
Sapienza – University of Rome

Day 1 (Dec 2, 2017)

Local Chapter Report (POC report)

8 Local Chapters out of 15 reported their activities.
(Germany made presentation on Dec 3)

UNISEC-Turkey



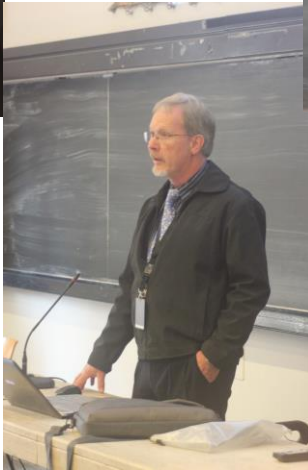
UNISEC-Lithuania



UNISEC-Italy



UNISEC-Germany,
UNISEC- Europe



UNISEC-SAR
(South Africa Region)



UNISEC-Japan



UNISEC-Egypt



UNISEC-Bulgaria

Sponsors/Exhibitors presentations



GOMSPACE



HYPERION TECHNOLOGIES



NPC SPACE MIND
NEW PRODUCTION CONCEPT



WaveArrays, Inc.



Infostellar



UNISEC JAPAN
University Space Engineering Consortium



Canon
CANON ELECTRONICS INC.

Day 1 (Dec 2, 2017)

PreMIC5

(Pre-workshop for the 5th Mission Idea Contest)

Reviewers

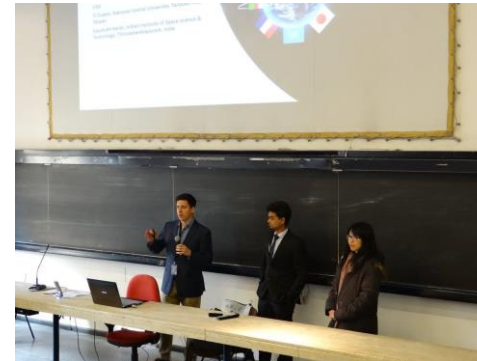


Overview

Moderator



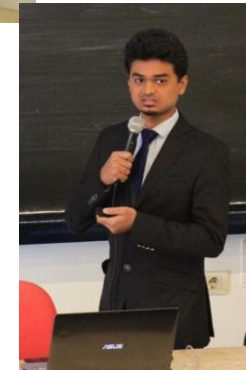
“Smallsat Ionosphere Exploration at Several Times and Altitudes (SIESTA)”



“Satellite Tracking Ocean Currents for Marine Searching and Rescue”



Phongsakorn Meemak
Kyushu Institute of Technology, Japan



William Evonosky, Univ of Colorado, USA,
Yi Duann, National Central University, Taiwan, and
Kaustubh AnandKandi, Indian Institute of Space Science and Technology, India
(from USA Local Competition)

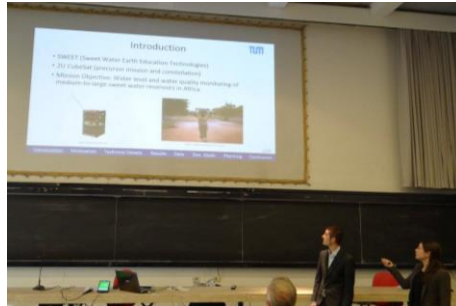


Day 1 (Dec 2, 2017)

PreMIC5

(Pre-workshop for the 5th Mission Idea Contest)

“SWEET – The Open-source Satellite Mission for Worldwide Water-quality Assessment”

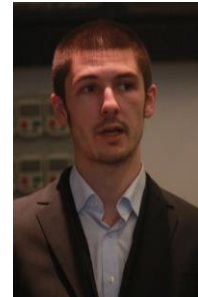


Kelly Antonini and Florian Schummer,
Technical University of Munich, Germany



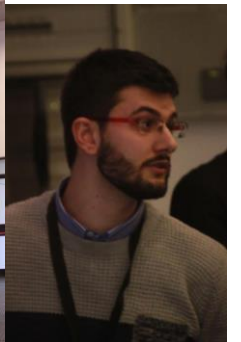
“Small satellite to monitor the Red Tide blooming on Central American coast using a High Definition Camera and two Multispectral Cameras”

Olman Quiros-Jimenez and Gustavo Fonseca-Naranjo,
University of Costa Rica, Costa Rica
(from Mexico Local Competition)



“Growth of tomato plants MICRO-TOM in space environment”

Luca Guglielmetti and Paolo Marzioli,
Sapienza – University of Rome, ENEA, Italy



Day 1 (Dec 2, 2017)

Reports from Local Point of contacts

USA



Taiwan



New Zealand



Nepal

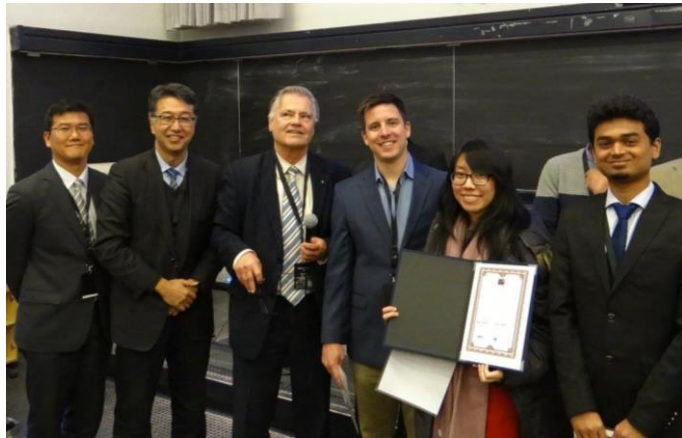


Day 1 (Dec 2, 2017)

Award ceremony for PreMIC5

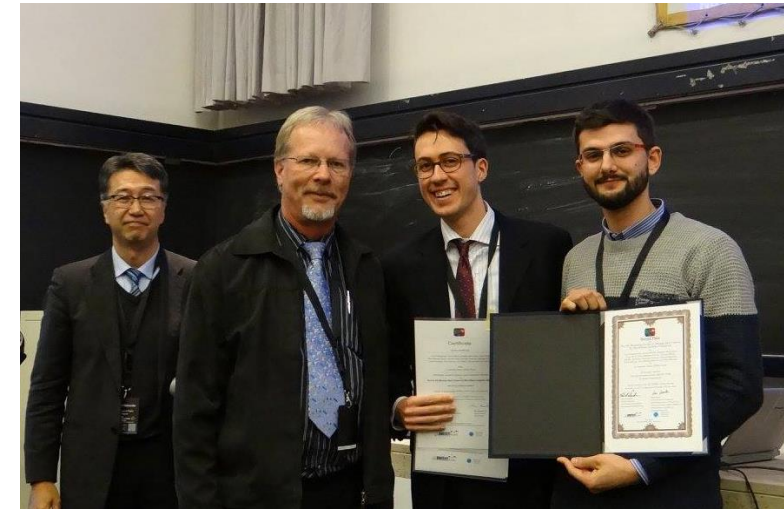
First place

“Smallsat Ionosphere
Exploration at Several Times
and Altitudes (SIESTA)”



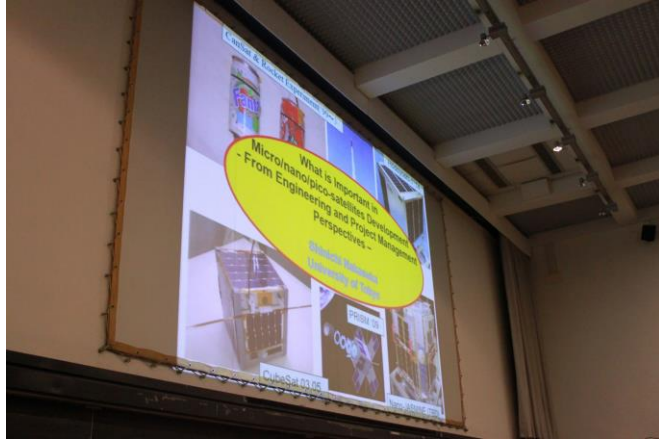
Second place

“Growth of tomato plants
MICRO-TOM in space environment”



Day 1 (Dec 2, 2017)

Special Lectures



“What is Important in Developing Micro/nano/pico-satellites? –
From Engineering and Project Management Perspectives”
Shinichi Nakasuka, University of Tokyo

Luisa Innocenti, Head of ESA Clean Space Department
(through internet)



Day 1 (Dec 2, 2017)

Reception at Oppio Caffè



We also had performances from each country.



Student Presentations

USA



South Africa



Egypt



Turkey



Japan



Costa Rica



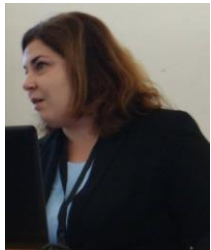
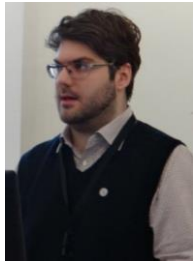
Thailand



Italy



Bulgaria



Day 2 (Dec 3, 2017)

Group Discussion

Group1

Requirements for Guidance,
Navigation and Control of Deep
Space CubeSats



Group2

Water Quality Management with
Micro/ Nano Satellites



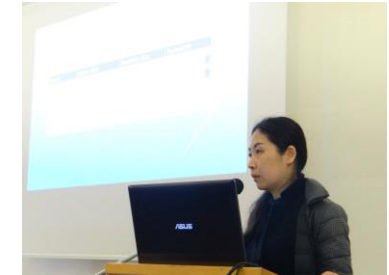
Group3

CubeSat/SmallSat development
lessons learned



Group4

Discussion of frequency and legal
regulations surrounding a ground
station network



Day 2 (Dec 3, 2017)

Group Discussion

Group5

PocketQube: A New Opportunity
and It's Challenges



Group7

Small satellites launch systems and
services: needs, availability, development
trends, and how to get onboard



Group8

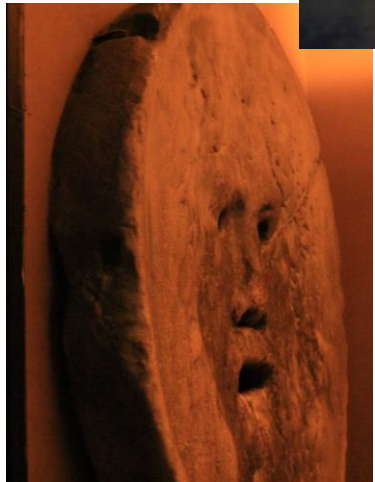
Manual for Starting a University
Pico-Satellite Project



Day 2 (Dec 3, 2017)

Night tour of Rome

Prof. Santoni showed the participants around Rome at night.



Day 2 (Dec 3, 2017)

Gala Dinner



Day 3 (Dec 4, 2017)

2nd Debris Mitigation Competition (DMC)

“Water Deorbiting Device”

Gleb Rukhovich,
Moscow State University, Russia



“Sail deployment deorbit system by solenoids for microsatellites”

Luis Javier Vazquez and Germán Ontivero,
National Technological University – Córdoba
Regional Faculty, Argentina



“Space Fan2: A Mechanical De-Orbiting Device System for Satellites”

Boğaç Karabulut and Muzaffer Duysal,
Istanbul Technical University, Turkey



“Space-Based Laser Constellation for Active Debris Removal”

Luke T. Hibbert and Dylan Els
Stellenbosch University, South Africa



“Membrane Deployment De-orbit Device Composed of Self-Deployable Truss Structure” Daiki Kousaka, Nihon University, Japan

Day 3 (Dec 4, 2017)

Special Lecture

Student Session

“Overview of International Hands-on Educational Activities for Students in the Space Field”



“UNOOSA and Space for Sustainable Development”
Jorge Del Rio Vera, UNOOSA



Day 3 (Dec 4, 2017)

DMC Award Ceremony

First place

“Membrane Deployment De-orbit Device
Composed of Self-Deployable Truss
Structure”

Daiki Kousaka, Nihon University, Japan



Second place

“Water Deorbiting Device”

Gleb Rukhovich,
Moscow State University, Russia



Congratulations!



Day 3 (Dec 4, 2017)

Closing Ceremony

Prof. Fabio Santoni



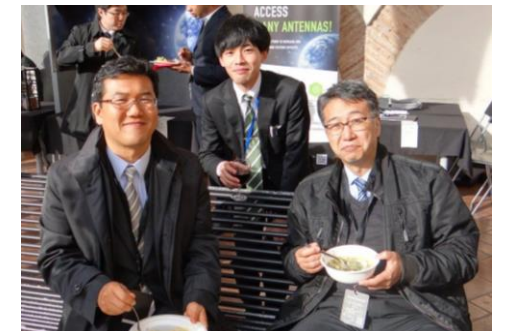
Special Thanks!



Ms. Alice Pellegrino

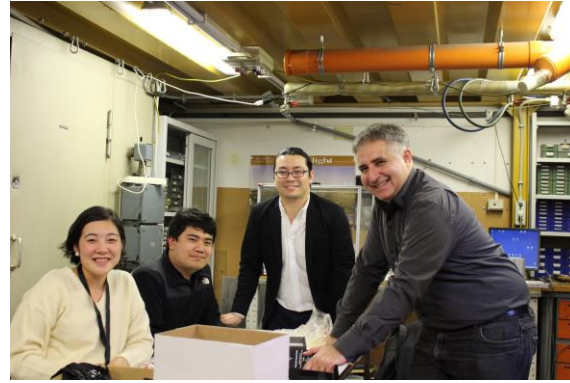


Break & Lunch, Exhibition



Day 0 (Dec 2, 2017)

Preparation



Conference Preparation
in Space System Laboratory,
Sapienza-University of Rome.

Japan Staff Team are
preparing conference badges
and conference bags made in
Bulgaria with international
colleagues.



Thank you!



See you next year!