5th UNISEC-Global Meeting
Photo Report

Sapienza-University of Rome, Italy
2-4 December, 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
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
Day 1 (Dec 2, 2017)

Sponsors/Exhibitors presentations

WaveArrays, Inc.
Overview

**“Satellite Tracking Ocean Currents for Marine Searching and Rescue”**

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

**Moderator**

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)

Phongsakorn Meemak
Kyushu Institute of Technology, Japan
“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
Reports from Local Point of contacts

USA

Taiwan

New Zealand

Nepal
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

Day 1 (Dec 2, 2017)

Shinichi Nakasuka, University of Tokyo

“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 Caffe

We also had performances from each country.
Day 2 (Dec 3, 2017)

**Student Presentations**

USA  
South Africa  
Egypt  
Turkey  
Japan  
Costa Rica  
Thailand  
Italy  
Bulgaria
**Group Discussion**

**Group 1**
Requirements for Guidance, Navigation and Control of Deep Space CubeSats

**Group 2**
Water Quality Management with Micro/ Nano Satellites

**Group 3**
CubeSat/SmallSat development lessons learned

**Group 4**
Discussion of frequency and legal regulations surrounding a ground station network
Group 5
PocketQube: A New Opportunity and It’s Challenges

Group 7
Small satellites launch systems and services: needs, availability, development trends, and how to get onboard

Group 8
Manual for Starting a University Pico-Satellite Project
Night tour of Rome

Prof. Santoni showed the participants around Rome at night.
Gala Dinner

Day 2 (Dec 3, 2017)
2nd Debris Mitigation Competition (DMC)

“Water Deorbiting Device”
Gleb Rukhovich, Moscow State University, Russia

“Space-Based Laser Constellation for Active Debris Removal”
Luke T. Hibbert and Dylan Els, Stellenbosch University, South Africa

“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

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

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

Student Session

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