

GOAL AND TOPICS OF THE CONFERENCE:

The Conference has the goal to provide to the international space community a forum for presentation and discussion in the area of University Satellites.

Inside the Conference two days are completely dedicated to Cubesat community. The main topics are related to the theme: "Innovative aspects of the field related to science and engineering for university nano, pico and fempto satellites."

PROPOSED TOPICS:

- Space Environment
- Remote sensing and Earth observation
- Innovative solutions for university satellite subsystems
- Launch opportunities
- Space Debris
- Ground Segment and Stations Network
- New Perspectives for Cubesats
- Cubesats Future Payloads and Experiments
- Micro-propulsion Subsystems, Formation Flying
- Cubesats In-Orbit Experience
- Cubesats Scientific Missions and "applications" activities

CONFERENCE VENUE:

Centro Logistico GdF villa Spada
via Castiglion Fiorentino, 50
00138 Roma

LOCAL ORGANIZING COMMITTEE:

F. Graziani, Sapienza Senior Professor
C. Ulivieri, Director, Research Center San Marco Project (CRPSM)
P. Teofilatto, Professor of Space Launchers Flight Mechanics (SIA)
C. Cappelletti, PhD Candidate, GAUSS team Coordinator (SIA)
S. Battistini, PhD Candidate, (SIA)

SCIENTIFIC COMMITTEE

Jean-Michel Contant, Robert J. Twiggs, Martin Sweeting, Filippo Graziani, Jean Muylaert, Jordi Puig-Suarl, Rainer Sandau, Rheinard Ruedeger, Francesco Emma, Vladimir Andreev, David M. Klumpar, Sergio Chiesa, Michael Ovchinnikov, Piero Galeone, Paolo Teofilatto, Benjamin K. Malphrus, Helen Page, Carlo Ulivieri, Amalia Ercoli Finzi, Fernando Aguado Agelet.

SPONSORS:

International Academy of Astronautics, European Space Agency (ESA), Italian Space Agency (ASI), Von Karman Institute (VKI), Scuola di Ingegneria Aerospaziale (SIA), Morehead State University (MSU), ISC Kosmotras, Centro Ricerche Progetto San Marco (CRPSM), FILAS SpA, Banca di Credito Cooperativo di Roma, Thales Alenia Space, AeroSekur srl, DMA srl, G&A srl, APAAS.

1ST IAA CONFERENCE ON UNIVERSITY SATELLITES MISSIONS AND 1ST CUBESAT WINTER WORKSHOP IN EUROPE



*"the dream of yesterday
is the hope of today
and the reality of tomorrow."*
Robert Goddard

JANUARY 24-29,
2011.

SCUOLA DI
INGEGNERIA
AEROSPAZIALE
ROMA

QUO VADIS CUBESAT?

MONDAY, January 24, 2011

17.30 – 18.30 Registration

18.30 – 19.30 Ice Breaking Cocktail

TUESDAY, January 25, 2011

9:00 – 9:45 Opening Ceremony

Introduction

Filippo GRAZIANI, Conference Chairman

Welcome address of Academic, Military, and Political Authorities

Carmine GIORDANO, Head of Centro Logistico Guardia di Finanza

Luigi FRATI, Rector of Sapienza University of Roma

Enrico SAGGESE, President of Italian Space Agency (ASI)

Stefano TURI, General Director FILAS SpA

Cristiano BONELLI, Roma IV City Hall Mayor

Carlo ULIVIERI, Director San Marco Project Research Center

Carlo BUONGIORNO, Sapienza University of Roma

Paolo TEOFILATTO, Scuola di Ingegneria Aerospaziale (SIA)

Chairman: Giovanni CAPRARA, Corriere della Sera

9:45 – 10:30 Opening Lecture

The International Academy of Astronautics and the new generations

Jean-Michel CONTANT, General Secretary of IAA

10:30 - 11:00 Coffee Break

11:00 - 12:00 LUIGI BROGLIO MEMORIAL SESSION

Ugo PONZI

Nazzareno CARDINALI

12:00 – 13:30 Technical Session I

Space Environment

Introduction: **Carlo ULIVIERI**

13:30 - 14:30 Lunch

14:30 – 16:00 Technical Session II

Remote Sensing and new perspectives in the applications of microsatellites

Introduction: **Rainer SANDAU**

16:00 - 16:30 Coffee Break

16:30 - 18:30 Technical Session III

Space Missions Overview

Introduction: **David M. KLUMPAR**

18:30 – 19:30 Welcome Reception/Poster Session

WEDNESDAY, January 26, 2011

9:00 - 9:15 Special announcement

Ten years from UNISAT launch in Dnepr LV

Filippo GRAZIANI

9:15 - 10:45 Technical Session IV

ADCS solutions

Introduction: **Craig UNDERWOOD**

10:45 - 11:00 Coffee Break

11:00 - 13:00 Technical Session V

Launch Opportunities for University Missions

Introduction: **Vladislav SOLOVEY**, I.S.C. Kosmotras

13:00 – 14:30 Lunch

14:30 – 16:00 Technical Session VI

Space Debris

Introduction: **Heiner KLINKRAD**

16:00 - 16:30 Coffee Break

16:30 - 18:30 Technical Session VII

Ground Segment and Station Networks

Introduction: **Piero GALEONE**

20:30 – 22:30 Dinner in a typical restaurant in Rome

THURSDAY, January 27, 2011

1st CubeSat Winter Workshop in Europe

9:00 - 10:45 Keynote lectures

Robert J. TWIGGS The role of Cubesats and Pocketsats in education

Benjamin K. MALPHRUS: Future Cubesats: payloads and experiments

Piero GALEONE Overview of ESA Education Office activities

Jean MUYLEAERT QB50 and education

10:45 - 11:00 Coffee Break

11:00 - 13:00 CubeSat Technical Session I

Cubesat activities overview I

Chairman: **Abe BONNEMA**, ISIS

13:00 - 14:30 Lunch

14:30 – 16:00 CubeSat Technical Session II

Cubesat activities overview II

Chairman: **Simone BATTISTINI**, GAUSS - SIA

16:00 - 16:30 Coffee Break

16:30 - 18:30 CubeSat Technical Session III

Cubesat activities overview III

Chairman: **Pietro BERARDINO**, Augusta Westland

20:30 – 22:30 Rome by-night walking tours and pizza

FRIDAY, January 28, 2011

9:00 - 10:45 Keynote lectures

Vladimir ANDREEV The effective cooperation between Kosmotras and University: UNISAT program

Jordi PUIG-SUARL P-POD deployer Future Missions

Fernando AGUADO AGELET HUMSAT: educational program

10:45 - 11:00 Coffee Break

11:00 - 13:00 CubeSat Technical Session IV

Cubesat subsystems I

Chairman: **Nathan FITE**, ASL - Morehead State University

13:00 - 14:30 Lunch

14:30 – 16:00 CubeSat Technical Session V

Cubesats scientific missions and “applications” activities

Chairman: **Sabrina CORPINO**, Politecnico di Torino

16:00 - 16:30 Coffee Break

16:30- 18:30 CubeSat Technical Session VI

Cubesat subsystems 2 (ADC)

Chairman: **Chantal CAPPELLETTI**, GAUSS - SIA

18:30 - 19:30 CubeSat Technical Session VII

Cubesat subsystems 3 (Electric propulsion)

Chairman: **Michele COLETTI**, Mars Space Ltd

SATURDAY, January 29, 2011

9:00 - 12:00 Half-a-day with the High School Students

“Astronautics in the class-rooms”

Chairman: **Maurizio DE RENZI**, Dean, Liceo L. A. Seneca

Jennifer CARTER MALPHRUS, , Rowan County Senior High School

Armando CLEMENTI, Chris Cappell College

Chantal CAPPELLETTI, GAUSS - SIA

Arrivederci next year in Bruxelles!