



SCHOOL OF ENGINEERING

SAPIENZA
UNIVERSITÀ DI ROMA
Rome

Via Eudossiana 18



SAPIENZA
UNIVERSITÀ DI ROMA

CRAS - CENTRO RICERCA AEROSPAZIALE SAPIENZA

26 April 2017

13:45

Tethers in Space

THE FASCINATING TECHNOLOGY
OF THE FIRST ITALIAN MANNED MISSION
25 YEARS AGO



Franco MALERBA

A LECTURE BY

- Former astronaut at the European Space Agency [ESA]
- AAE correspondent

LECTURE GIVEN IN ITALIAN



This lecture is organised by AAE within the framework of a day devoted to "Italy in Space", commemorating the first launch from the Italian Malindi space centre in Kenya on 26 April 1967.



Information & free registration on:
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WEDNESDAY 26 AVRIL • 13:45

Tethers in Space

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Twenty-five years ago, the Shuttle Atlantis carried a fascinating experiment: the first flight of the Tethered Satellite. The Tethered Satellite System, based upon a concept developed by Prof. Giuseppe Colombo, was the result of a cooperation between the Italian Space Agency and NASA. The Satellite was designed and manufactured in Italy; it carried a host of experiments proposed by an international group of scientists. Franco Malerba was the scientist-engineer chosen by ASI and NASA to fly on board Atlantis as Payload Specialist of this mission. He was the first Italian in space.

Franco Malerba will recall his TSS1 mission and brainstorm about futures of "Tethers in space".

Tethers-in-space is a fascinating Space engineering discipline with many potential applications: Tethered satellites may help explore the upper atmosphere or may produce electricity interacting with space plasmas and magnetic fields. Space tethers may enable smart deorbiting maneuvers, may become critical elements of debris capture systems or of artificial gravity for manned missions engaged in long duration interplanetary flights. Science fiction novelists propose cable systems as "space elevators".

A LECTURE GIVEN IN ITALIAN

PRACTICAL INFORMATION

ORGANISATION

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VENUE

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