SPACE SCIENCE AND EDUCATION

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ODISSEO*SPACE*

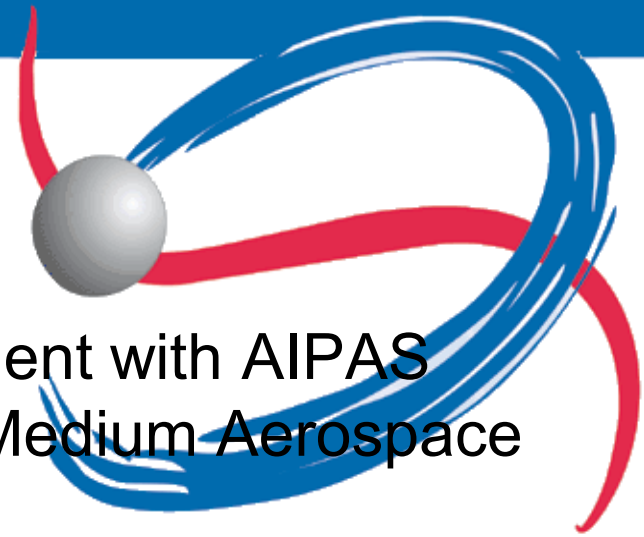*TdF Convention – Moncrivello – April 1st 2006*

ODISSEO*SPACE* – **O**bservatory on the **D**iffusion **I**nformation and **E**ducation of **S**pace **S**ciences is

a scientific non-profit association whose main aim is spreading scientific and space culture through information and education activities, professional training of teachers and experts, promotion of studies of space policy, scientific researches and projects
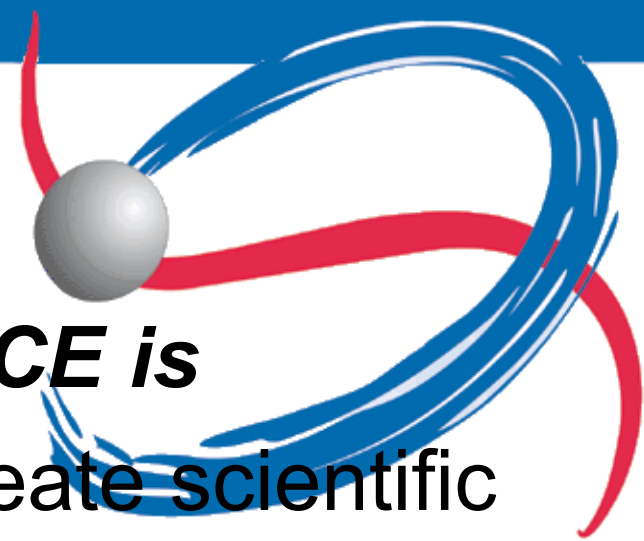
ODISSEO*SPACE*

- is **WSW national coordinator** for Italy. The "World Space Week" - October 4-10 – is an international celebration, under the guidance of the UN Office for Outer Space Affairs, of the contributions brought by space, science and technology to the betterment of the human condition;

- takes part into **"Crapapelata" –** a **Radio Popolare program for kids**. The main objective is to arouse curiosity and interest in the fascinating world of space and space sciences by telling space stories, reading poems and introducing topics related to science, fantasy and imaginary world;

ODISSEO*SPACE*

- has just signed a cooperation agreement with AIPAS (the Italian Association of Small and Medium Aerospace Companies);

- has established links with major Italian Aerospace Industries, Universities, Research Centers, basically in Lombardy and Piedmont;

- is carrying out a research study on space technology transfer;

- is organizing "space" events to bridge space knowledge to the general public

In a few words **ODISSEO*SPACE is***

A **multitasks laboratory** to create scientific culture in a new dimension of knowledge

A **network** involving schools, universities, research institutes, aerospace industries and government institutions to realize connections throughout the territory, thus paving the way for territorial integration

A **Space Organization** giving a new guidance for students after high school or degree and opening job opportunities in the space field, creating high qualified professional figures

The project "**Space: A dimension for Everybody**" is an example of our activities in the field of **education**

Space: A Dimension for Everybody

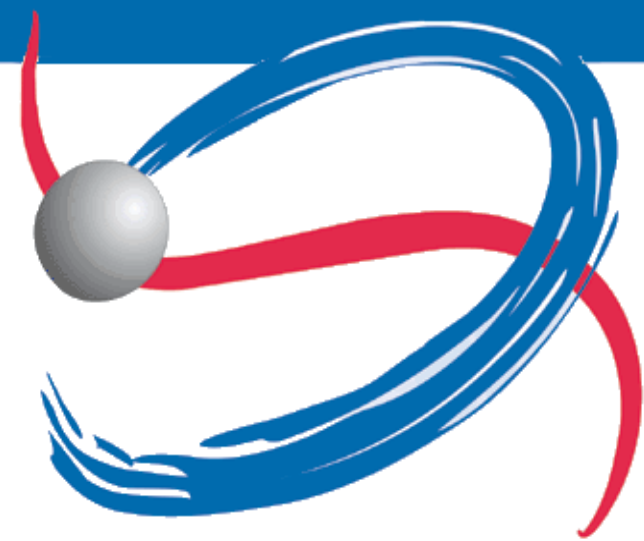## A pilot project of active vocational guidance towards university

OUR PARTNERS

Regional MIUR Office of Lombardy

Milan Polytechnic, Space Department

Carlo Gavazzi Space S.p.A.

Milan State University "Bicocca", Department of Environment and Territory Sciences

with the support of

Province of Milan

ARPA (Regional Environment Agency of Lombardy),

ASI (Italian Space Agency),

ESA/ESRIN (European Space Agency),

Assolombarda (Association of Lombardy Industries)

Users

- 25/30 students from Lombardy High Schools of the 4th year (aged 17-18)

Period

- 2 weeks from 12 June 2006 + final presentation

Contents

- The team of students analyses a specific environmental request from a Public Institution working in Lombardy (Civil Protection, ARPA, the Regional Environment Agency): this will lead to the planning of the project requiring the use of space satellites

- After a short introduction to space through lectures and lab experiments to understand how 0-gravity and the vibrations produced by launchers affect materials, a lecture will introduce satellite services and their practical use.

- At the end the participants will be in a position to integrate the different instruments and to solve a problem of public utility.

Methodology

- ***hands-on education,*** a practical teaching methodology combining lectures and lab experience at university and at the hosting company. Such methodology is suited to develop important competences, such as *team working* and *project work planning* through *problem posing* and *problem solving* activities. Students act and are responsible for their performance based on a concrete and real case: this enables them to work in a team, analyse, study and make hypothesis, experiment and make a decision, by using hi tech instruments.

"GOING TOWARDS A STAR …
ONLY THIS"

This famous sentence by M. Heidegger does seem to embody the essence of our project: to travel towards discovery, to experience and to come back to earth richer and richer in knowledge.