

UNITED EUROPE IN SPACE

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ASTROPHILATELY COLLECTION of Luigi BUSSOLINO

PARTICIPATION HIGHLIGHTS :

Presentation of united Europe participation to space activities and conquest both from scientific and industrial standpoint as witnessed by philately throughout issue of stamps and envelopes for celebrating the main space events to whom Europe has participated in a important form, more than the single nation effort.

The results obtained by Europe in space can demonstrate what it might be done in other fields in a very cooperative manner with the power due to full members agreement.

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" UNITED EUROPE IN SPACE " by Luigi C. BUSSOLINO

class : ASTROPHILATELY

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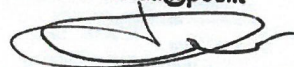
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FIRST COLLECTION PRESENTATION IN VENISE 2011

COLLECTION DEVELOPMENT :

- 1 ELDO CONSORTIUM FIRST STEPS**
- 2 ESRO CONSORTIUM FIRST STEPS**
- 3 CONSORTIA MERGE AND BIRTH OF EUROPEAN SPACE AGENCY**
- 4 FIRST PROJECTS 1975/85**
- 5 OTHER PROJECTS TO TODAY**
- 6 SPACELAB AND THE DECISION OF DELIVERING MAN IN SPACE
TILL THE INTERNATIONAL SPACE STATION**
- 7 THE DEVELOPMENT OF EUROPEAN LAUNCH CAPABILITY**

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During 60s European Nations decided to unify the single national effort for going in space. First ELDO (European Launcher Development Organization) consortium was formed with the aim of developing a three/four stages (first stage english, second french, third german , fourth with fairings and test satellite italian) for launching into orbit satellites till one ton.

The tests were performed in the range of Woomera in the australian desert while later the organization was moved in the french base of Kourou in South American Guyana near to Equator. In parallel was formed ESRO (European Satellite Research Organization) consortium with the aim of designing satellites for scientific research.

THE BIRTH OF ESA (European Space Agency)

In 1975 the European research ministers decided to merge both consortia for better concentrating the effort to develop the european capability in space activities to guarantee the investments of european citizens. From then ESA did undertake the scientific research (astronomy with observation of Univers in the wavelenghts field of I.R.,X and optical , " Hipparcos" allowed to realize a sky map identifying 120000 stars, "Giotto" probe passed throu the Halley comet tail , providing the first understanding of the comet nucleous status, and others for arriving to " Mars and Venus Express" and the couple of scientific satellites "Herschel" and " Planck"). The Earth observation (Meteosat , ERS and Envisat) has also been considered as well as the european telecommunications. The development of launchers was also pursued with Ariane program (1,4,5), Soyuz e Vega that are a good example.,

In 1985 the member states decided to undertake also the effort to deliver the man in space in collaboration with NASA ; ESA effort , already started with Space Laboratory "Spacelab", was then deeply continued by partecipating to the International Space Station , training a proper group of astronauts and providing devices to support the activities in orbit with ATV.

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