Students' Architecture Competition

Space Hotel „Early Bird“

Exposé

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The Visionaries
The Motivation
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Those involved
The Prospects

Links:
http://www.spacehotel.org
http://www.dglr.de

Deutsche Gesellschaft für Luft- und Raumfahrt Lilienthal – Oberth e.V.

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30.05.2001
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Space Hotel „Early Bird“ Impressions

Outer space possesses both a translucence and a luminosity that can’t be found on Earth at all - not even on a clear and cloudless summer’s day in the mountains. Nowhere else can you be so totally aware of the majesty of our Earth and be so completely awestruck by the mere thought that it is only one of many thousands of planets.

Gus Grissom
Astronaut, USA

For the first time in my life I saw the horizon as a curved line. It was highlighted by a thin dark blue thread - our atmosphere. This obviously had nothing to do with the traditional idea of Earth’s firmament which I had often been told about throughout my life. This fragile manifestation scared me to death.

Ulf Merbold
Astronaut, The Republic of Germany

It is completely unimportant in which particular lake or in which particular ocean you have discovered pollution, in which particular forest you have noticed the outbreak of a fire or over which continent a tornado has begun to rage. You are the guardian of the whole of your Earth.

Jurij Artjuchin
Cosmonaut, UDSSR

On the first day everybody pointed out their own countries; on the third or fourth day at their own continent. From the fifth day on we didn’t pay any attention to the continents. We just saw the Earth as one, whole planet.

Sultan Ben Salman Al Saud
Astronaut, Kingdom of Saudi-Arabia

After eight days in space it became clear to me that the essential point of being so high up was so that Man could have a better understanding of what Earth has suffered and to see those things that can’t be seen when one is too close. It’s not just a question of being spellbound by the beauty of the Earth but also of having a sense of responsibility to ensure that nothing we do can harm Nature in any way at all.

Pham Tuan
Cosmonaut, Vietnam
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Space Hotel „Early Bird“

Just the idea alone of being airborne, gliding over the countryside and being able to cover long distances was motivation enough in the end for Man to make use of his abilities and develop technical solutions to realize his dreams. Balloons, airships and aircraft have now become part of our daily lives. The view from above and learning about other countries and their cultures have widened our horizons and influenced human civilization to a great extent.

A much more recent dream is the wish to break away from the protection of our atmosphere, to be freed from the bonds of Earth’s gravity and to down upon it completely detached. Space travel has made Man’s dream come true. The chosen elite, who have been able to marvel at our Earth from the realms of outer space and experiment with the physical phenomenon of weightlessness, talk about returning to Earth with a completely new sense of awareness.

To enable a greater number of people to share these experiences in orbit around the Earth, a space station specially designed for tourists is needed.

THE SPACE HOTEL

A vision which will take decades to realize. However, it is a vision close at hand now that the first private space tourist, Dennis Tito, has visited the International Space Station.
The dream of a creating a manned outpost, orbiting the Earth, is not even 100 years old!

Arthur C. Clarke 1950
H. Noordung 1929
W. v. Braun 1952
K. Ziolkowsky 1927
G. v. Pirquet 1927
H. Oberth 1929

Deutsche Gesellschaft für Luft- und Raumfahrt
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References

- 2001 - The beginning of a new millennium. The millennium in which the vision of building a hotel in space becomes reality.
- 2001 - The novel „2001- A Space Odyssey“ written by Arthur C. Clarke
- Architecture - The creation of living space - in space

Goals

- To let young people share the vision - creating an outlook on the future
- To confront students of architecture with a totally unconventional subject
- Posing technical questions related to space matters as well throwing open the discussion about the social and commercial aspects of space travel to the public
- Keeping the pioneers’ dream of realizing a “Space Hotel“ alive
**Students' Architecture Competition**

**Space Hotel „Early Bird“**

**The Idea**

- **Co-operation**
  - Through a joint venture co-operation between the specialist Department of Architecture at the Technical University of Darmstadt and the DGLR e.V. - Education Committee synergies will be created

- **Pilot Project**
  - The „Early Bird“ project should be the start of a series of competitions

- **Education**
  - The students work should become part of a university educational course
  - Study tours and lectures given by “space experts“ should widen people’s knowledge about space travel
  - Exhibitions of students’ work to the open to the public in a number of German towns and cities
  - Producing events effective through the media
  - Working together with public figures from all walks of life including politics, architectural backgrounds, and the space business

- **Media**

**Exposé**

**Forward**

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The Project

Assignment

• To revise the subject catalog „Space Hotel“ in groups with a presentation of the reviews afterwards

• To design a space hotel for approx. 220 Guests and 80 members of staff

• To set up an exhibition

Impressions taken from the presentation of the subject studies at the TU in Darmstadt
Students' Architecture Competition

Space Hotel „Early Bird“

The Planning

- **26.04.01** Distribution of the assignments and subject catalog
- **03.05.01** Presentation of the results from the review of the subject catalog
- **17.05.01** Attestation (concept variants)
- **31.05.01** Attestation (concept)
- **21.06.01** Attestation (draft)
- **11.07.01** Handing in of the drafts
- **12.07.01** Colloquium - Presentation of the reviews
- **19.09.01** Opening of the exhibition and awards in Hamburg (German Airospace Congress)

from Nov. 2001 • Touring exhibition

Status (21.05.01):
Participation of over 50 students, 7 special lectures, 2 study-tours (ESOC, Astrium);
Motivating the teams for posing questions relating to space travel, altogether 25 draft outlines; subject studies of outstanding quality, very promising interdisciplinary concept drafts, other ways and means of encouraging interdisciplinary tasks for the young people
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**Space Hotel „Early Bird“**

**Those Involved**

The „Early Bird“ project was initiated by the DGLR e.V. and is organized in partnership with the TU in Darmstadt

**TU-Darmstadt**

- Special Department of Architecture, supervised by:
  - Prof. Eisele (construction, industrial building)
  - inter.regno (graphic construction)
  - Prof. Petzinka (building technology)
  - Prof. Dr. Weischede (civil engineering)

**DGLR e.V.**

- The Deutsche Gesellschaft für Luft und Raumfahrt, Lilienthal-Oberth e.V. (DGLR) is the largest alliance for aeronautics and astronautics in Germany

- The project is in the hands of the education commission. Those in charge:
  - R. Amekrane; C. Holze

- The following youth events have already been organized by the above mentioned with great success:
  - Space Festival, Youth Airospace-Congress, IAF Student Competition, ISU ´01-Bremen
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**The Prospects**

**Germany**

- After the pilot project has come to an end, competitions shall take place at regular intervals in various universities and institutions

**Europe**

- It has been planned in co-operation with the European Space Agency, ESA to hold a European competition