

Fall 2004 / Spring 2005
Part 2

No. 1



S·P·A·C·E TOURISM II™

Lecture Series given by Dr.-Ing. Robert Alexander Goehlich

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No. 2



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- **General**
- **SpaceShipOne**
- **Ansari X Prize**
- **Follow-up Projects**
- **Project STMS II**
- **Requests from Audience for Lectures**

Introduction

Goal Definition of this Lecture

No. 4



The goal of this lecture is to get insight into the Ansari X Prize and the follow-up projects such as Virgin Galactic and America`s Space Prize.

SpaceShipOne

No. 5



- September 29, 2004: Ansari X Prize Flight #1 (called X1)
- October 4, 2004: Ansari X Prize Flight #2 (called X2)

⇒ SpaceShipOne wins the \$10 million Ansari X Prize



(Scaled Composites)

SpaceShipOne

Movie

No. 6



Ansari X Prize

Definition

No. 7



The ANSARI X PRIZE is a \$10 million prize to jumpstart the space tourism industry through competition among entrepreneurs and rocket experts. The \$10 million cash prize is awarded to the first team that:

1. Privately finances, builds and launches a spaceship, able to carry three people to 100 kilometers
2. Returns safely to Earth
3. Repeats the launch with the same ship within 2 weeks

Vehicles built for the ANSARI X PRIZE will eventually serve four different industries:

- Space Tourism
- Low-cost satellite launching
- Same-day package delivery
- Rapid point-to-point passenger travel

SpaceShipOne wins ANSARI X PRIZE on October 4, 2004.



Follow-up Projects

7 UP to Offer Free Space Flight

No. 8



Lemon-lime beverage, 7 UP, the official soft drink of the Ansari X Prize, announced plans to offer consumers the first free ticket into space.

(Cadbury Schweppes)



Follow-up Projects

Virgin Galactic

No. 9



The Virgin transport, entertainment and communications group, operated by Richard Branson, has signed an agreement with pioneering aviation designer Burt Rutan to build an aircraft based on Rutan's SpaceShipOne vessel.

The new service will be called Virgin Galactic and expects to fly 3000 new astronauts within five years starting from 2007. Fares will start at around \$200 000 for a suborbital flight, including three days' training.



(Virgin Galactic)

Follow-up Projects

Virgin Galactic Movie

No. 10



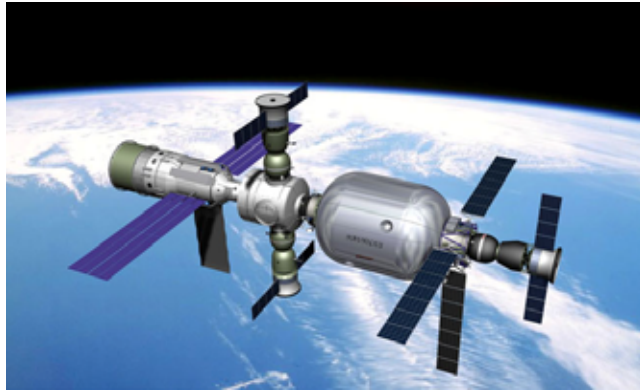
Follow-up Projects

America`s Space Prize

No. 11



Robert Bigelow, chief of Las Vegas-based Bigelow Aerospace, is apparently setting goals for private spaceflight endeavors with America's Space Prize, a \$50 million race to build an orbital vehicle capable of carrying up to seven astronauts to an orbital outpost by the end of the decade.



(Bigelow Aerospace)

Lecture`s Textbook

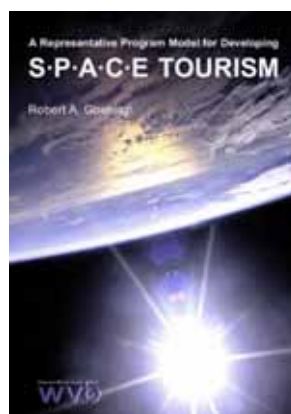
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