

# Team Spirit Award



## Application

**German Space Education Institute  
Moonbuggy Team 2008**

[www.spacepass.de](http://www.spacepass.de)

Our characteristics are that:

- we have a good teamwork since some months.
- we have arranged 48 common events until the race.
- we won 40 partners and promoters by ourselves.
- we have organized a dinner with the other moonbuggy-teams in El Palacio.
- we have planed several masses and expositions after the race.
- we had more than 100 press releases until now  
<http://www.spacepass.de/Pressespiegel-Moonbuggy.pdf>
- we are on the first position in the german google after MSFC.
- we will send daily reports to Germany.

As the only European team that takes part in the moonbuggy race we have got very much responsibility as trailblazer. That's why we pay attention to the impression that others can have about us.

Including:

-teamwork, -multi discipline, -integrity, -safety



We really take care with learning at school and live up the requirements of the moonbuggy race. Thereby it is understood that we perform together as a team, have uniformly clothes, we include the publicity transparent and manage all of our intern problems by ourselves.

In the first instance we want to pass experiences and cognitions so that we can include other students of our age in the „Vision of Space Exploration“. This was successfully, because the team is **30% bigger** than last year.

On the frame of our **patch** is written: "NASA GREAT MOONBUGGY RACE – TEAM GERMANY". In addition the flags of America, Germany and Russia are pictured, which presents Germany as a connection-point in between of America and Russia. We see this bridge as a chance for the international Space Exploration. The head of Wernher von Braun is represented, who comes from Germany as a visionary and in the USA and was, by reason of the good performances of the Soviet astronautics (Sputnik), encouraged to reach the moon. ***The rails to moon and mars are coming from him.*** We do not see the moon as the final destination of the moonbuggy but rather as a whistle stop to other planets.

Two stars are symbolizing the both riders, whose objectives are behind the mars.



Analog behaves the spacesuit. It represents all of our partners of education and sponsors. The missionpatch is pictured on the right sleeve. The localization of the logos is strict.



*Spacesuit of Team Germany*

Because of much teamwork within the team we are getting along very well and we can work together very well. Every member of our team is specialized in one area, but anyhow everyone know something about every area, so when someone drops out, another one can fill in for that one and we can help each other better (**multi discipline**). We covered the song “Bicycle Race” from Queen and composed it new as our **Teamsong “Moonbuggy-Race”**, so we can boost our teamspirit while work.

## Get Together



Last Year we have organized a “**Get Together**” for all interested moonbuggy-teams in Huntsville. Much teams came. The whole restaurant “El Palacio” (an historic place of the von Braun team) was fully booked. We brought along a little culture program, on which all other teams connected. Dr. Konrad Dannenberg (von Braun team veteran) and Prof. Dr. von Puttkammer (NASA-HQ) were there, too. All of them liked it very much.

You can see team Germany very clear because of the **magenta t-shirts** with the missionpatch. These are design t-shirts from Bruno Banani, (**the first brand designer in space**).

# The ISS story



2003, International Space Station  
Yvonne gave the 2nd collection to  
Nicolai Budarin (ISS crew 6, flight engineer)  
He landed all souls safely on earth with Soyuz TMA-1.  
This was the first human landing after Columbia desaster.



## The travel to the race

is linked with high requirements for us. We have to muster the money for the flight tickets and a one week long stay. In addition the immigration documents have to be correct and the moonbuggy has to be transported with the baggage. This demands a highest dimension of accuracy and discipline. Even in the second year of the international involvement are we still the only peregrine team in the highschool division. So far no other team could do this because the requirements are very high.



*fragmented, flight ready moonbuggy in Atlanta after the entry, everyone is in team clothes*



*assembling in Huntsville/AL*

## Vision of Moonbuggy Regatta

In order to publicize the spirit of the moonbuggy we have the vision of the moonbuggy regatta. Our goal is to round the world with the moonbuggy. The stations of the aeronautics (Space Center, places of production, universities) should be linked. We imagine that one or more moonbuggies are driving together. The wheelers could be tested about their toughness.



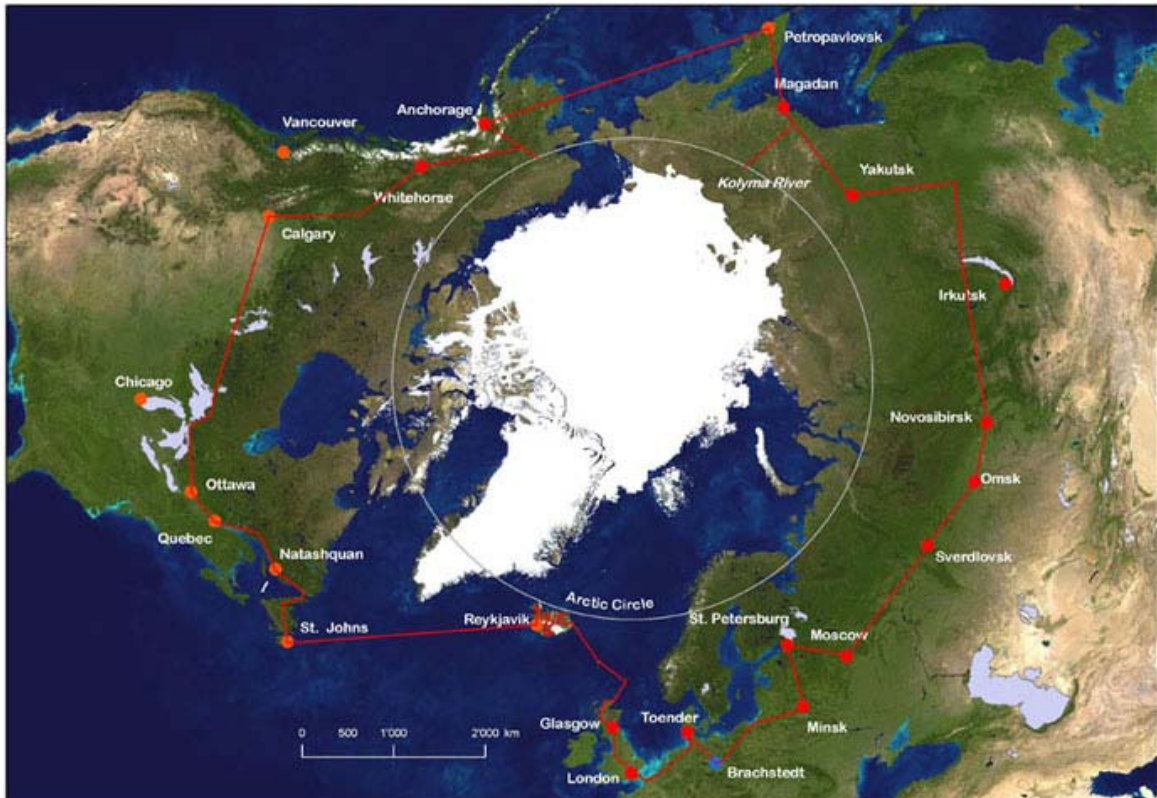
We will do a first test run in summer 2008 from Berlin to Moscow (ca. 1200 miles). There is a big receipt meeting planed in Moscow. Therefore our moonbuggy has got a transmitting station. That sends GPS-telemetric data. An escort vehicle receives them and transmits them to the Internet. So every moonbuggy-fan all over the world can see the movements of the moonbuggy. It is possible for the escorting team to be in case of emergency (accident, repairing) directly on the spot.

Our team was trained for such somatic stresses and strains of a professional trainer (Kieser Training).

We want to make our experiences and cognitions of this first moonbuggy-regatta available for the NASA-Moonbuggy Race, so they can reproduce them and call other teams out for joining in.

Our dream is a complete America-regatta (all NASA Space Centers + all Moonbuggy-Schools) in year 2009 at the 40<sup>th</sup> anniversary of the lunar landing of Apollo 11.

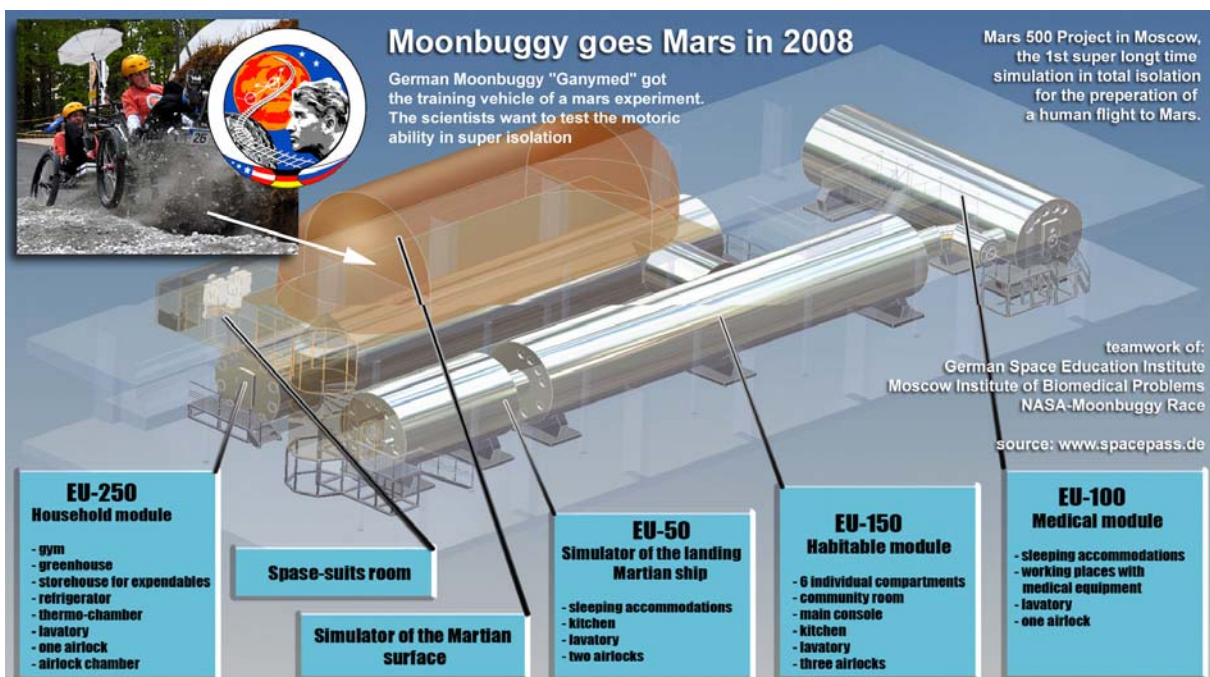
Join all in – it will suffice sections, too. We come with the moonbuggy from Moscow. Later we would go with it around the world. We already have interested people at [www.terracerca.de](http://www.terracerca.de). They drove this course with a bicycle:



## German Moonbuggy "Ganymed" has got a licence for the Mars 500 Project

The German moonbuggy "Ganymed" was licensed from the Moscow Aviation Institute and the institute for biomedical problems in Moscow as a training apparatus in the Mars 500 project. The Mars 500 project is composed of three biomedical super long-time experiments in the super isolation. In each case six crew members are tested during a time by 500 days on all abilities of the life and working in a Mars spaceship simulator. The German Moonbuggy functions thereby as training apparatus for the motor abilities on an after-arranged Mars surface for two crew members. It is used only, if EVA's are planned.

Our Moonbuggy existed as the only applicant for such an important mission under nearly real conditions all safety-relevant examinations. The Mars 500 experiment will be accomplished under international participation and ends in the year 2016. It is a component of the Russian space exploration under the national space travel agency ROSCOSMOS.



*The Mars ships simulator at the institute for biomedical problems will be occupied*

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We say thank you!

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Ralf und Yvonne Heckel, Space Camp Ambassadors

**Members of team:**

Reshma Anwar (16)  
Andriy Garkavyy (17)  
Philipp Hanstein (16)  
Markus Reichelt (16)  
Alexander Uth (15)  
Peggy Zinsmeyer (14)

**Sideboard of all award applications 2008, Team Germany:**

Best-Design-Award	<a href="http://www.spacepass.de/mbr08/best-design-award-en.pdf">www.spacepass.de/mbr08/best-design-award-en.pdf</a>
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