

Dear colleagues,

It is a great pleasure to invite you to our 1<sup>st</sup> International **:envi-hab** Symposium. This Symposium will be held in Cologne on May 23-24, 2011.

**:envi-hab** stands for "environmental habitat" - a unique scientific laboratory to carry out interdisciplinary research in global partnership on the interactions of humans with the environment and vice versa. The ground-breaking of this facility took place in September 2009. The facility will be operational early 2013. Thus, it is now time to look for strategic local and global partnerships and hold the 1<sup>st</sup> International **:envi-hab** Symposium.

For long-term habitation in space and for living on Moon and Mars, many questions still need to be resolved. Such research questions include caring for health and performance of humans in extreme environments and under extreme conditions, prevention of and rehabilitation from negative effects of e.g. weightlessness, or supporting individuals whenever this support is necessary. In many instances, these problems are comparable to or identical with problems of aging people on Earth, of patients during long-term stays in bed, of patients in rehabilitation or, on the other side, of highly skilled teams that are under extreme stress or work under unusual conditions.

From a strategic point of view, one major emphasis of **:envi-hab** is to form – on a global scale – a closely interrelated network of leading scientists and entrepreneurs in their respective fields of research and innovation and also to use the facility to fascinate the public and integrate an educational approach for the young generation.

The aim of the 1<sup>st</sup> International **:envi-hab** Symposium is to identify and discuss key research and "industry potential" questions both for applications on Earth and in space. Space research is not different from research on Earth, but one of many challenges and chances of aiming for the unknown.

We are looking forward to meeting you, to stimulating discussions and to a successful 1<sup>st</sup> International **:envi-hab** Symposium.

**Dr. Bernhard Koch**  
Main Organizer

**Prof. Dr. Rupert Gerzer**  
Symposium President

## Program

### Sunday, May 22, 2011

17 00 Registration

18 00 **Welcome Reception**



### Monday, May 23, 2011

09 00 **Welcome**

09 30 Session 1  
**:envi-hab Introduction and Overview**

10 15 *Coffee Break*

10 45 Session 2  
**Closed Habitats**

12 00 *Lunch and Poster Viewing*

13 30 Session 3  
**Life Support Systems**

14 45 Session 4  
**Stress, Monotony and Teamwork**

16 00 *Coffee Break*

16 30 Session 5  
**Inactivity and Immobilisation**

17 45 **Snacks and Posters**

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20 00 *Optional Evening Program*

## Program

### Tuesday, May 24, 2011

08 30 Session 6  
**Countermeasure Development**

09 45 *Coffee Break*

10 15 Session 7  
**Environmental Factors and Human Performance**

11 30 Session 8  
**Telecare and Digital Human**

12 45 *Lunch Break*

14 15 Session 9  
**Private Human Space Flight**

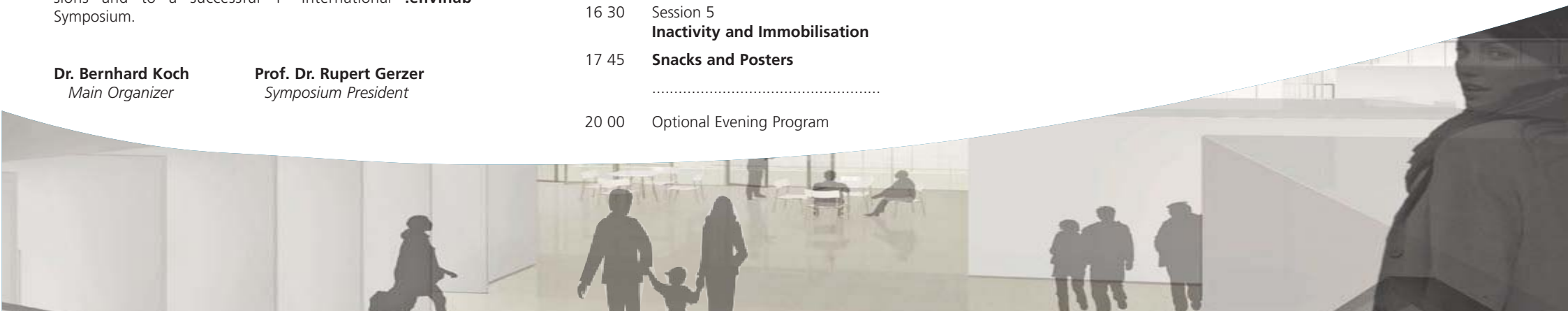
15 30 *Coffee Break*

16 00 Session 10  
**Education and Outreach**

17 15 **Plenary Discussion on Collaborative Perspectives**

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19 00 **Conference Dinner**



# General Information

Sign in on: [www.envihab.org](http://www.envihab.org)

Deadline to submit poster abstracts: February 28, 2011

## Venue

### Industrie- und Handelskammer zu Koeln (IHK)

Unter Sachsenhausen 10-26  
50667 Cologne, Germany  
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## Symposium President

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## Head of Organizing Committee

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## Registration Fees

(including Catering and Social Program)

Early Bird 200 Euro  
(Registration deadline: January 31, 2011)

Regular fee 300 Euro  
(After January 31, 2011)

Students 50 Euro

## DLR at a glance

DLR is Germany's national research centre for aeronautics and space. Its extensive research and development work in Aeronautics, Space, Energy, Transportation and Security is integrated into national and international cooperative ventures. As Germany's space agency, DLR has been given responsibility for the forward planning and the implementation of the German space programme by the German federal government as well as for the international representation of German interests. Furthermore, Germany's largest project-management agency is also part of DLR.

Approximately 6,500 people are employed at thirteen locations in Germany: Cologne (headquarters), Berlin, Bonn, Braunschweig, Bremen, Goettingen, Hamburg, Lampoldshausen, Neustrelitz, Oberpfaffenhofen, Stuttgart, Trauen and Weilheim. DLR also operates offices in Brussels, Paris, and Washington D.C.



DLR

Deutsches Zentrum  
für Luft- und Raumfahrt e.V.  
in der Helmholtz-Gemeinschaft

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## 1<sup>st</sup> International :envihab Symposium

May 23-24, 2011  
Cologne, Germany



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