

**INTERNATIONAL SPACE EXPLORATION CONFERENCE
8-9 November 2007 in Berlin**

PROGRAMME



**EXPLORE
TO
PROGRESS**

PROGRAMME COMMITTEE

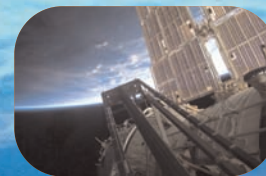
Co-chairs:
D. Sacotte (ESA)
W. Döllinger (DLR)

Members:
S. Di Pippo (ASI)
D. Parker (BNSC)
F. Spiera (CNES)
T. Spohn (DLR)
H.J. Kaaf (DLR)
G. Härendel (ACHME)
Y. Langevin (ESTAG)

Secretaries:
B. Huttenbach (ESA)
R. Grünmann (DLR)

ORGANISATION COMMITTEE

Members:
B. Huttenbach (ESA)
R. Grünmann (DLR)
F. Claassen (DLR)
R. Pappalardo (ESA)
J. Knobloch (ESA)
J. Myrthe (ESA)
G. Effering (ESA)



THURSDAY 8 NOVEMBER 2007

Start 9:00

OPENING SESSION

- Opening Speech *P. Hintze*
Welcome Speeches *J-D. Wörner*
J-J. Dordain
Space Exploration - A Global Project
J. Logsdon

EUROPEAN ROLE AND INTERESTS

- Space Exploration and Europe's Role in the World
H. Revol
Space Exploration and the EU Lisbon Agenda
U. Guidoni
The European Long-Term Exploration Strategy
D. Sacotte

Coffee break

Science and Space Exploration - *PANEL*
T. Spohn, G. Horneck, H-C. Gunga, F. Westall, H. Falcke,
J-C. Worms, I. Crawford, J. Zarnecki, A. Coradini, J. P. Mercader

The Cultural Dimension of Human Spaceflight
and Exploration
H. Blome

Inspiration and Vocation of Young People
E. Bulmahn

Humans in Space – A Personal Perspective
C. Nicollier, C. Fuglesang

Lunch break (until approx. 14:00)

Innovation and New Technologies
R. Nøstdal

New Business Opportunities - *PANEL*
P. Montpert, J-M. Brucker, M. Sweeting, A. Kerrest, R. Hanselmann

Coffee break

EXPLORATION AND SOCIETY

The Impact of Human Space Exploration on Society - *PANEL*
G. Haerendel, J. Feustel-Büechl, R. Lüst, K. Fong, T. Reiter,
K. Pounds, M. Airaghi, N. Bentz

Exploration and Societal Development
M. Horn

End: 17:30

Transportation

Berlin has an extensive network system of underground lines (U-Bahn), urban railway lines (S-Bahn), buses and tramways (Tram), allowing you to reach every location and sight in town in a safe and convenient way. Almost in front of axica you can get on the underground at the station "Unter den Linden". A ticket for the A-B zone costs only 2,10 Euro. However, taxis do not cost the Earth, and are always at your service at the stand located in front of the Adlon Hotel.

Tourist information

In case you would like to stay over the weekend and you would like to plan some extensive sightseeing – simply cross the square in front of axica and go to the tourist info booth, called: BERLIN infostore - We know Berlin! The professional and multilingual staff will be happy to advise you on how to spend your time in Berlin. They will provide you with up-to-date information, book tickets of your choice for events and sightseeing tours and make reservations for hotels and hostels. Fancy souvenirs and fashion of the brand BERLIN complete the range of goods. Moreover you can also get any information about the travel destination Brandenburg – surrounding Berlin.

BERLIN infostore at Brandenburger Tor (Brandenburg Gate)
Pariser Platz / south wing
Daily open from 10 am to 6 pm

BERLIN infostore in the BERLIN Pavilion at Reichstag
Scheidemannstraße
daily open from 10 am to 6 pm

For quick advice or simple questions you can make use of the
BERLIN hotline: +49 (0) 30 25 00 25

We wish you a pleasant stay in Berlin!

FRIDAY 9 NOVEMBER 2007

Start 9:00

EXPLORATION JOURNEYS

Short Film

THE GLOBAL EXPLORATION STRATEGY

NASA Exploration Plans
T. Cremins

Global Exploration Strategy Framework and Coordination
S. Di Pippo

Outcome of the 1st formal meeting of the International Space Exploration
Coordination Group
W. Döllinger

Enabling Research and Development – PANEL
*M. Menking, M. Fuchs, L. M. Quaglino, G. Sylos-Labini, N. Hill, V. Atrache, D. Schmitt,
H. Reile, G. Hirzinger*

Coffee break

PREPARING THE FUTURE

ESA Proposals for Near-Term Activities
D. Sacotte

High Level PANEL
CHAIR: *J-D. Wörner*
PANEL: *J. Wuermeling, G. Bignami, D. Williams, L. Boisvert, J-J. Dordain, J-J. Favier*

CONCLUDING REMARKS

Concluding Remarks by DLR
Concluding Remarks by ESA

*W. Döllinger
D. Sacotte*

Closing lunch

END: 14:00

A Press Conference will be organised on Thursday morning at 10:00 am

Moderator: Ms Conny Czymoch

**Welcome to Berlin, capital of the
Federal Republic of Germany!**

The city of Berlin is located at the heart of Europe, and after EU enlargement in 2004, also in the middle of the European Community. Berlin is the largest city in Germany and stretches over an area of 38 kilometres by 45 kilometers, i.e. 889 km². In the centre of the Brandenburg region, the city occupies flatlands on the banks of the Havel and Spree rivers with numerous canals crossing the urban area.

Sightseeing

Compared to other European cities, Berlin, being less than 800 years old, is considered a rather young city, but its history is unique. Many exciting points of interest are situated around the Brandenburg Gate area and hence close to the conference location axica.

The Reichstag with its new glass dome became an attraction for both Berliners and tourists from all over the world. The new millennium was celebrated with a magnificent party at the Brandenburger Tor. A lot has changed in Berlin since then. And Berlin will keep changing.

Berlin is home to the best in light entertainment – musicals and revue. Very famous is the Friedrichstadtpalast, Europe's largest revues theatre with its legendary high-stepping line of girls and breathtaking stage shows. You can find the revue theatre Friedrichstadtpalast on the far end of the train station Friedrichstrasse, approximately one kilometre away from axica.

Many theatres also present stunning programmes. Close to the conference venue axica you can find The Staatsoper Unter den Linden. It is an internationally renowned opera house and one of Berlin's most beautiful buildings located on the city's magnificent boulevard, Unter den Linden. Next to the state opera you can find The Komische Oper Berlin; its repertoire focuses on contemporary German musical theatre.

Let us give you a special tip of the season: It is "Winter world" at Potsdamer Platz! In the middle of the city, with a view of Brandenburg Gate, visitors can sledge on the real snow of a big mobile toboggan run. This year's Winter World at Potsdamer Platz once again offers exceptional winter attractions. Next to the big toboggan run, there are a large ice-rink and a "ski carousel" for children. Visitors can rent snowtubes, skates and ski equipment for children. The Winter World is open as of 3 November and will last until 6 January 2008. Rink: daily 10am - 9.30pm, toboggan run: daily 10am - 10pm.

Speakers List

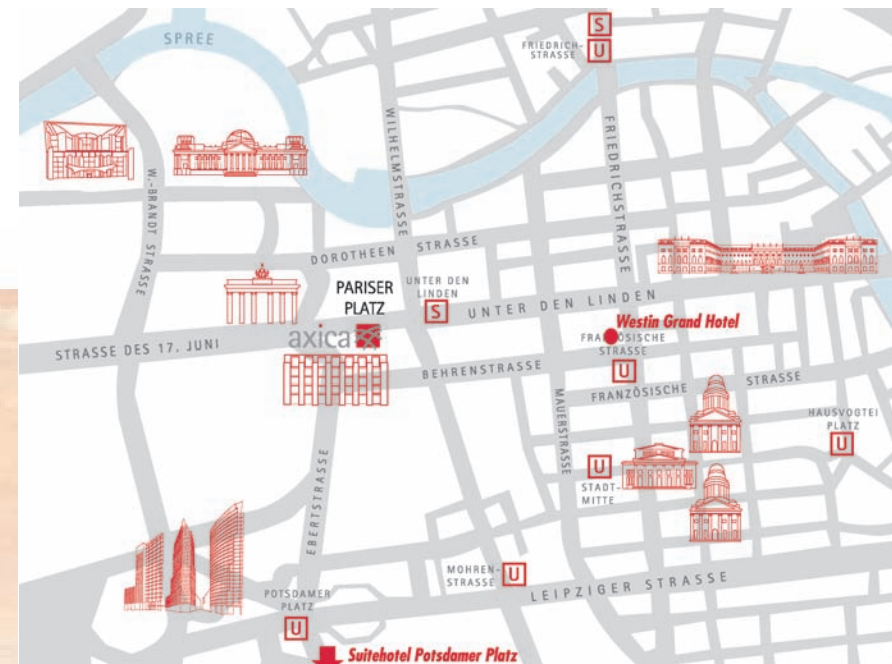
A	
Airaghi, Marco	Member of the Italian Parliament
Atrache, Vincent	R&D Industry Director - bioMérieux SA
B	
Bentz, Natalie	ISU Student
Bignami, Giovanni	President, Italian Space Agency (ASI)
Blome, Hans-Joachim	Professor at the University of Applied Sciences in Aachen
Boisvert, Larry	President, Canadian Space Agency
Brucker, Jean-Marie	Managing Director, Groupe Pôle Luxe
Bulmahn, Edelgard	Member of the Bundestag (Lower house of the German Parliament)
C	
Coradini, Angioletta	Professor, Institute of Interplanetary Space Physics (IFSI), Rome
Crawford, Ian	Senior Lecturer in Planetary Science, Birbeck College, University of London
Cremins, Tom	Deputy Associate Administrator, Management and Policy, Exploration Systems Mission Directorate, NASA
D	
Di Pippo, Simonetta	Director, Observation of the Universe, Italian Space Agency (ASI), Chair of ESA PB-HME
Döllinger, Walter	Director Space Programmes, German Aerospace Centre (DLR)
Dordain, Jean-Jacques	Director General, European Space Agency (ESA)
F	
Falcke, Heino	Professor of Radio Astronomy and Astroparticle Physics, Radboud University of Nijmegen
Favier, Jean-Jacques	Deputy Director for Advanced Concepts and Strategy, CNES
Feustel-Büechl, Jörg	Former ESA Director of Manned Spaceflight and Microgravity
Fong, Kevin	Co-director Centre for Aviation, Space and Extreme Environment Medicine, University College London
Fuchs, Manfred	CEO OHB-System AG
Fuglesang, Christer	ESA Astronaut
G	
Guidoni, Umberto	Member of the European Parliament and former ESA Astronaut
Gunga, Hanns-Christian	Professor at the Department of Physiology (Space Medicine), University of Berlin
H	
Haerendel, Gerhard	Honorary Professor of Space Physics, chairman of ESA Advisory Committee Human Spaceflight Microgravity and Exploration
Hanselmann, Rainer G.	Managing Director, Sarastro GmbH
Hill, Nathan	Technology Transfer Officer CERN, Managing Director Qi3
Hintze, Peter	Parliamentary Secretary of State in the Federal Ministry of Economics and Technology, Germany
Hirzinger, Gerd	Director of Institute for Robotics and Mechatronics, German Aerospace Centre (DLR)
Horn, Mike	Professional Explorer
Horneck, Gerda	Former Deputy Director, Institute of Aerospace Medicine, German Aerospace
K	
Kerrest, Arnel	University Professor (ADDEF, ANAE, ECSL, IAA, ILA, SFDAS, SFDI) Head of the Public Law Department of the University of Western Brittany

Sponsor



German Aerospace
Industries Association

Locations



Space Art Exhibition

Main foyer area:

Timed interactive performances of Tomas Saraceno sculpture

Auditorium:

Video projection by Simon Faithfull

Conference room 2:

Video projection by Tim Otto Roth

Conference room 3:

Installation with video and models by Marko Peljhan

Alcoves to the left of the main foyer area:

3 video monitors screening works by Ayoko Ono, Kitsou Dubois, Agnes Meyer-Brandis and Ansuman Biswas and Jem Finer

The Space Art and Technology Exhibition can be visited during the Conference until Friday 9 November 16:30.

The exhibition is commissioned by the European Space Agency and curated by The Arts Catalyst, in collaboration with Transmediale, the Berlin-based festival for art and digital culture.

Additional Exhibitions

- Poster Exhibition by DLR with latest Mars Pictures (Forum Area)
- 3D Presentation on Exploration during Conference Breaks on Friday, 9 November (Gehry Lounge)

L

Logsdon, John

Director of the Space Policy Institute, Elliott School of International Affairs, George Washington University
Former Director General of ESA

Lüst, Reimar

M

Menking, Michael
Mercader, Juan Pérez
Montpert, Philippe

Senior Vice-President Astrium GmbH Space Transportation
Director of the Astrobiology Centre CSIS-INTA, Madrid
Managing Director, Willis Aerospace Consulting

N

Nicollier, Claude
Nåstdal, Rita

Professor of Space Technology, École Polytechnique Fédéral, Lausanne
Senior Researcher and Project Manager at the Fraunhofer Institute for Industrial Engineering IAO (Germany)

P

Pounds, Ken

Emeritus Professor of Space Physics at the University of Leicester

Q

Quaglino, Luigi Maria

Senior Vice President and General Manager Space Infrastructures and Transportation B.U., Thales Alenia Space

R

Reile, Hubert
Reiter, Thomas
Revol, Henri

Programme Director Space Flight, German Aerospace Centre (DLR)
Member of DLR Executive Board, former ESA Astronaut
Senator of the Côte-d'Or (Bourgogne), Premier Vice-President of the French Parliamentarian Office of Evaluation of Scientific and Technological Choices

S

Sacotte, Daniel
Schmitt, Denis
Spohn, Tilman
Sweeting, Martin
Sylos Labini, Giovanni

ESA Director of Human Spaceflight, Microgravity and Exploration Programmes
Vice-President New Programs, Arianespace
Director of DLR Planetary Research Institute, Berlin
CEO, Surrey Satellite Technology Ltd; Director, Surrey Space Centre
CEO, Planetek Italia s.r.l.

W

Westall, Frances
Williams, David
Wörner, Johann-Dietrich

Director of Research CNRS at the Centre for Molecular Biophysics, Orleans
Director General, British National Space Centre, BNSC
Chairman of the Executive Board, German Aerospace Centre (DLR), Deputy Chairman of ESA Council
Head of Space Sciences Unit of the European Science Foundation, Strasbourg
State Secretary in the Federal Ministry for Economics and Technology

Worms, Jean-Claude
Wuermeling, Joachim

Z

Zarnecki, John

Professor of Planetary Science, Planetary and Space Sciences Research Institute, The Open University UK

About the International Space Exploration Conference 2007

In 2001, space exploration was identified by ESA Member States as one of Europe's key priorities for the future and the European space exploration programme, Aurora, was initiated. In the context of this programme, Europe is planning ahead for the future and developing a long-term strategy for space exploration which provides perspective and orientation for future European investments in space exploration. The underlying principle of the European strategy is to implement space exploration as a global and societal project contributing to societal development. Following this principle the development of the strategy is performed in close consultation with all key stakeholder groups and to this effect ESA has undertaken various stakeholder consultation activities in the past years.

The fundamental motivation for an early engagement of stakeholders in the strategy formulation phase is to create the foundation for a sustainable European space exploration programme which creates value for society. At the time of the International Exploration Conference a first version of the European long-term strategy for space exploration will have been developed. The scope of the conference is to create awareness on global space exploration activities and related opportunities and benefits for Europe and in particular Germany. At the time of the International Space Exploration Conference a first version of the European long term strategy for space exploration will have been developed. The topics which will be addressed are:

The broader relevance of space exploration based on principles such as inspiration, knowledge, innovation, competitiveness and cultural development.

The importance of broad international coordination of European space exploration activities with existing and new international partners.

The specific European interests and goals and the resulting European long-term scenarios for space exploration.

The focus of near and medium term European and international exploration activities and the required means.

Banquet evening

Thursday 8 November
in **axica**

Starting at 20:30
Doors open 20:15

Dear participant of the International Space Exploration Conference 2007,

DLR and ESA would like to welcome you for a banquet dinner on Thursday night, 8 November starting at 20:30 at the conference venue **axica**.

After the first day of our conference we would like to invite you for a moment of relaxation in the beautiful environment of the **axica** building. We would like to give you the opportunity to really enjoy Berlin's outstanding congress centre at No. 3 Pariser Platz. The exceptional architecture of **axica**, designed by the famous architect Frank O. Gehry will take your breath away, especially as we are going to rearrange some tiny details to make it even more atmosphere than normal during the evening. Be surprised and re-experience the location literally under a new light, when it is lit up by coloured beams and set-up with interesting furniture.

The service team of **axica** will try its best to provide you with a special gourmet experience. Regional food and well selected German wines will be served to you. Take a little break from the busy conference day and enjoy the evening with inspiring talks, admiration of space art and multimedia projection.

Join us for an experience out of this world!

Parliamentarian Evening

The Aviation and Space Group in the Bundestag organises a *Parliamentarian Evening* on "The Future of Human Spaceflight in Europe - and the Role of Germany".

8 November 2007, at 19:00
Bundestag
Platz der Republik 1
Berlin