



ISS Symposium 2012 – Programme

- Day 1: Wednesday 2nd May 2012**
- 11.00** **Registration**
- 13.15** **Countdown**
Uli Bobinger, Moderator ISS Symposium 2012
- 13.30** **Welcome addresses**
Jean-Jacques Dordain, ESA Director General
Johann-Dietrich Wörner, CEO DLR
Philipp Rösler, Federal Minister of Economics and Technology, federal
Chairman of FDP and Vice-chancellor of Germany
- 14.20** **Agencies Leaders' Roundtable**
'Research on ISS for the benefit of mankind'
'ISS as a stepping stone for Human Exploration'
Mark Uhlan, ISS Director, NASA
Alexey Krasnov, Director of Human Space Flight Programme Department,
Roscosmos
Takaaki Iwasa, Director, Office for Space Utilization Promotion, MEXT
and Kiyoshi Higuchi, Vice President, JAXA
Gilles Leclerc, Director General for Space Exploration, CSA
Jean-Jacques Dordain, ESA Director General
- 15.45** **'Europe's decision to participate in the ISS and the importance of
research in difficult times'**
Heinz Riesenhuber, Member of Parliament, former Federal Minister for
Research and Technology
- 16.00** **Coffee break / interview opportunity for media**
- 16.30** **'Research Overview of ISS Partnership'**
Julie Robinson, ISS Programme Scientist, NASA
- 16.45** **ISS Research Highlights: 'The Alpha Magnetic Spectrometer
Experiment on ISS - An endeavour for a Global Research
Collaboration'**
Stefan Schael, Professor for Experimental Physics, RWTH Aachen University
- 17.45** **ISS Inspirations**
'Living and Working in Space'
Sergey Krikalev, Head of the Gagarin Cosmonaut Training Center (GCTC)
- 18:00** **End of 1st Day Programme**



19.30 – 23:30 ***Gala Reception/Dinner at the ‘Museum for Communication’***

Day 2: **Thursday 3rd May 2012**

- 09.00** **Opening remarks incl. Introduction to Exhibition: ‘A world without gravity – research on ISS for the benefit of life on Earth’**
Thomas Reiter, ESA Director of Human Spaceflight & Operations, Head of ESOC Darmstadt, Germany
- 09.15** **Multimedia Presentation: ‘Message from ISS/PromISSE Mission video’**
Uli Bobinger, Moderator ISS Symposium 2012
- 09.25** **Complex Fluids: ‘From Plasma Research on the ISS to Applications on Earth’**
Gregor Morfill, Director of the Max Planck Institute for Extraterrestrial Physics
- 10.00** **Advanced Materials Research: ‘Materials research in space and industrial R&D practice’**
Robert Guntlin, Managing Director, Access
- 10.35** **Fundamental Physics: ‘High precision space clocks and quantum mechanics’**
Christophe Salomon, Research Director, CNRS
- 11.10** ***Coffee break***
- 11.40** **Roundtable: Physical Research in Space and on Ground: ‘Research for New Materials and Energy Challenges of tomorrow’**
Chair: Mike Cruise, ESA-PSWG Chair
Hans Fecht, Chaired Professor and Director, Institute of Micro and Nanomaterials, Ulm University, Germany
David John Jarvis, Head of New Materials & Energy Research, ESA
Cécile Gehin-Delval, Research Scientist Nestlé Research Center, Switzerland
Koichi Nishino, Professor of the Department of Mechanical Engineering, Yokohama National University, Japan
Mark Uhran, ISS Director, NASA
John Banhart, Professor at the Technical University, Berlin, Germany
- 12.35** ***Lunch***
- 13.45** **Biotechnology Research: ‘Biotechnology in space’**
Millie Hughes-Fulford, Scientific Advisor to the Undersecretary of the Department of Veterans Affairs and Professor at the University of California, San Francisco
- 14.20** **Human Research & Space Medicine: ‘Human Research in Space for life on Earth and future Exploration’**



Alexander Choukèr, Senior Physician and Associate Professor at the Department of Anaesthesiology, Lecturer at the Ludwig-Maximilians-University of Munich

15.05

Roundtable: Life Sciences in Space and Health on Earth: ‘Integrated Human Research for Benefits on Earth and for Exploration’

Chair: Rupert Gerzer, Head of DLR Institute of Aerospace Medicine, Cologne,

Germany

Chiaki Mukai, JAXA Astronaut, Vice Director for the Human Space System and Utilization Mission Directorate

Michael Barratt, Physician Astronaut and Manager NASA Human Research Programme

Peter Suedfeld, Dean Emeritus of Graduate Studies and Professor Emeritus of Psychology, University of British Columbia, Canada

Hermann Kuppe, Director, Institute of Anaesthesiology, Deutsches

Herzzentrum Berlin, Germany.

Boris Morukov, Physician at the State Research Center RF-Institute for Biomedical Problems (IBMP), Russia

15.55

Coffee break

16.25

Earth Observation & Climate change: ‘Earth and Atmosphere monitoring from ISS’

Ryota Sato, Manager of Sensor Technology Office of Earth Observation Research Center (EORC), JAXA

16.50

Roundtable: Space Technology and Astroscience: ‘Long-term Space Monitoring and Exposure’

Chair: Waleed Abdalati, NASA Chief Scientist

Pascale Ehrenfreund, Research Professor of Space Policy and International Affairs, Space Policy Institute, Washington DC, and Professor of Astrobiology, Leiden University, The Netherlands

Julie Robinson, ISS Programme Scientist NASA

Masaru Matsuoka, Senior Advisor, RIKEN

Gerhard Schmidtke, Senior Project Scientist, Fraunhofer Institute for Physical Measurement Techniques, Germany

Boris Zagreev, Head of Laboratory, Central Research Institute for Machine Building, TsNIIMash, Russia

Torsten Neubert, Head of Section for Solar Systems Physics, National Space Institute, Technical University of Denmark

17.50

ISS Research Outlook: ‘The Importance for Research on ISS – a perspective from the US National Academies Decadal Survey’

Elizabeth Cantwell, Chair of NRC Decadal Survey, USA

18.20

Day 2 Conclusions: ‘ISS Research Accomplishments’

Waleed Abdalati, NASA Chief Scientist

18:50

End of 2nd Day Programme

20.00

Dinner (River Cruise)



Day 3: Friday 4th May 2012

- 09.00 Introduction and Synthesis of Day 2**
Uli Bobinger, Moderator ISS Symposium 2012
- 09.15 Future Key Research Challenges:**
- NASA's Research Priorities on ISS**
Mark Uhran, ISS Director, NASA
- JAXA's ISS Utilisation Strategy**
Makato Asashima, AIST/Japan
- Russia's ISS Research Programme**
Georgy Karabadzhak, TsNIIMash/Russia
- Canadian Research Priorities**
Nicole Buckley, Chief Scientist, ISS and Life Sciences, CSA
- European ISS Research Strategy**
Christer Fuglesang, Head of the Science and Applications Division, ESA
- 10.30 Human Exploration on ISS: 'Use of ISS for Human Exploration in LEO and beyond'**
Charles F. Bolden, Jr., NASA Administrator
- 11.00 Future ISS Perspectives: 'ISS and beyond: What is in there for you?'**
Berndt Feuerbacher, ESA-HESAC Chair
- 11.30 Future ISS Perspectives: 'The ISS and ESA's future Science and Technology'**
Michael Longair, ESA-HISPAC Chair
- 11.45 Closing Session: 'Future Perspectives and Closing Remarks'**
Thomas Reiter, ESA Director of Human Spaceflight & Operations, Head of ESOC, Darmstadt, Germany
- 12.00 Press Conference**
Jean-Jacques Dordain, ESA Director General
Charles F. Bolden, Jr., NASA Administrator
Alexey Krasnov, Director of Human Space Flight Programme Department, Roscosmos
Kiyoshi Higuchi, Vice President JAXA
Gilles Leclerc, Director General for Space Exploration, CSA
Thomas Reiter, ESA Director of Human Spaceflight & Operations, Head of ESOC, Darmstadt, Germany
- 12.30 – 14.00 Business Buffet and End of Symposium**