

Access to Space and the Evolution of Space Activities

The market for launchers and launch services has developed rapidly over the last decade. More competitive markets, sectoral reform, changing policies and institutional changes are all affecting the playing field that determines our access to space. What is more, recent innovation dynamics, increasing private involvement and a continuing trend of globalisation will be impacting the launch sector, and what we launch, even more in the future. In the mid-term it is expected that these changes will lead to significant cost reductions in bringing payloads to the different Earth orbits. To see how this will turn out and ultimately affect the different aspects of space utilisation, the ESPI Autumn Conference this year will focus on "Access to Space and the Evolution of Space Activities".

During the first day, the speakers of the conference will focus on the changes happening within the launch technology sector and on other game-changing technologies. On the second day, the consequences and implications of future drops in launch prices will be assessed. In the morning session future scenarios for the different traditional categories of space utilisation will be explored. In the afternoon light will be shed on the evolving needs in terms of governance, strategies and approaches that will arise in the playing field of space anno 2030.



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9th ESPI AUTUMN CONFERENCE

Programme

**Access to Space and
the Evolution
of Space Activities**

**21-22 September 2015
Vienna, ESPI**



Monday, 21 September 2015

Session 1: Trends in Access to Space and Activities: a Panorama Perspective

14:00 - 15:00

Opening Reception

15:00 - 15:10

Welcome and Introduction to the Theme
Peter Hulsroj, Director, ESPI, Vienna, Austria

15:10 - 15:40

"Technical (R)Evolution in Launchers."
Speaker: Jean-Marc Astorg, Director of Launchers, CNES, Paris, France

15:40 - 16:10

"Space at a Crossroads: Commercial Space Sector Influencing U.S. Government Space Programmes"
Speaker: Cristina Chaplain, Director of the U.S. Government Accountability Office, Washington D.C., U.S.A.

16:10 - 16:40

"New Activities in Space?"
Speaker: Richard DalBello, Vice President Business Development and Government Affairs, Virgin Galactic, Washington D.C., U.S.A.

16:40- 17:10

Wrap Up
Peter Hulsroj, Director, ESPI, Vienna, Austria

Tuesday, 22 September 2015

Session 2: What will the Future in Space look like?

09:30 - 10:00

"The Future of Space Applications"
Speaker: Stefaan de Mey, Secretary General, Eurisy, Paris, France

10:00 - 10:30

"Human Spaceflight and Exploration"
Speaker: Robert Veldhuyzen, Human Spaceflight Expert (ESA ret.), The Hague, The Netherlands

10:30 - 11:00

Coffee Break

11:00 - 11:30

"Space Science"
Speaker: Shuang-Nan Zhang, Director, Center of Particle Astrophysics, Chinese Academy of Science, Beijing, China

11:30 - 12:00

"Evolution in Other Enabling or Game-Changing Space Technologies."
Speaker: Leopold Summerer, Head of the ESA Advanced Concepts Team at ESTEC, Noordwijk, The Netherlands

12:00 - 13:00

Buffet Lunch

Tuesday, 22 September 2015

Session 3: Governance, Strategies and Approaches in 2030

13:00 - 13:30

"Space Use in the Future: Promises of Speed and Transparency?"
Speaker: Nina Witjes, Scientific Researcher, Austrian Institute for International Affairs, Vienna, Austria and Munich Centre for Technology in Society, Munich, Germany

13:30 - 14:00

"Some Ethical Constraints on Near-Earth Resource Exploitation"
Speaker: James Schwartz, Ph.D., Department of Philosophy, Wichita State University, Wichita (KS), U.S.A.

14:00 - 14:30

"The European Options"
Speaker: Jesse Phaler, Head of ESA Industrial Return Management Office, ESA, Paris, France

14:30 - 15:00

Conclusion of the Conference
Peter Hulsroj, Director, ESPI, Vienna, Austria