



## 3<sup>rd</sup> HAMLET Public Outreach Event Budapest, 12<sup>th</sup> October 2010



# Radiation and Humans in Space

[www.fp7-hamlet.hu](http://www.fp7-hamlet.hu)

Organized by Atomic Energy Research Institute

### Topics:

- Human Space Exploration
- Hazards from radiation in Space
- How do we measure space radiation?
- The MATROSHKA project
- To Moon, Mars and Beyond...

## Budapest University of Technology

1111 Budapest, Egry József str. 20. – 'A' Building

9:00 – 16:00 **Free Entry**

### Human Model Matroshka for Radiation Exposure Determination of Astronauts (HAMLET)

The HAMLET project was founded by the European Commission's Seventh Framework Programme under contract no. 218817.





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	<b>Programme</b>	
09.00 h	Welcome and Introductory Statement (In Hungarian and English)	Előd Both, HSO, Günther Reitz, DLR
	<b>Session 1: HAMLET – I</b>	
09.20 h	To Moon, Mars and Beyond ... (in English)	Michael Hajek, ATI
09.45 h	History of Space Radiation Research (in English)	Günther Reitz, DLR
10.10 h	From MATROSHKA to HAMLET (in English)	Thomas Berger, DLR
10.35 h	<i>Coffee break Poster and MATROSHKA exhibition</i>	
	<b>Session 2 : Space Research in Hungary</b>	
11.10 h	Planetary research in Hungary (in Hungarian)	András Sík, REUS
11.30 h	About the Hungarian pico-satellite-MaSat-1 (in Hungarian)	Zoltán Kovács, TUB
11.50 h	The PILLE space radiation dosimeter on ISS (in Hungarian)	Péter Szántó, AERI
12.10 h	The TriTel 3D particle detector on ISS (in Hungarian)	Attila Hirn, AERI
12.30 h	<i>Lunch break Poster and MATROSHKA exhibition</i>	
	<b>Session 3 : HAMLET – II</b>	
13.30	Active Instruments to Measure Radiation – In Space! (in English)	Sönke Burmeister, CAU
13.50 h	Thermoluminescence Dosimetry (in English)	Paweł Bilski, IFJ
14.10 h	Nuclear Track Etch Detectors (in Hungarian)	József K. Pálfalvi, AERI
14.30 h	Neutron Dosimetry in the International Space Station (in English)	Luke Hager, HPA
14.50 h	Radiation Risk Estimation using Monte Carlo technique (in English)	Lembit Sihver, CHALMERS
15.10 h	Closing (in Hungarian and English)	József K. Pálfalvi, AERI Günther Reitz, DLR
15.25– 16.00 h	<i>Poster and MATROSHKA exhibition</i>	