

## PRINT-ONLY PRESENTATIONS

### Education

- Bérczi Sz. Hegyi S. Kovács Zs. Hudoba Gy. Horváth A. Kabai S. Fabriczy A. Földi T.  
*Space Simulators in Space Science Education in Hungary (2): Hunveyor Orientation and Astronomical Observations on Martian Surface* [#1166]  
 We studied how Hunveyor (on Mars) and manned activities (on space station) are affected by orientation changes in coordinate transformations, especially if space station activities are at the Lagrangian points of the Earth + Sun or Earth + Moon system.
- Carter L. M. Carruba V. Cuk M. Jackson M. A. Jordan C. E. Krco M. Masters K. L. Pandian J. D. Rothstein D. M. Saintonge A. Scharringhausen B. R. Spekkens K. Springob C. M. Kornreich D. A.  
 The Curious Team  
*“Curious About Astronomy?”: Cornell University’s Ask an Astronomer Website* [#1893]  
 “Curious About Astronomy? Ask an Astronomer” is a website (<http://curious.astro.cornell.edu>) run by graduate and undergraduate student volunteers at Cornell University. Questions from the general public are submitted by email and answered by members of the Curious Team.
- Castilla G. de Pablo M. A. López C.  
*Rocks and Landscapes of the Solar System: An Activity for the Teaching and Spreading of the Planetary Geology* [#1070]  
 We have designed an experience in which, employing rocks and landscapes of our geological environment, pupils are able to perform an exercise comparing planetology analyzing shapes, processes, and material for several planetary bodies of the solar system.
- Dudich E. Poka T. Bérczi Sz.  
*“Geonomy” by E. Szádeczky-Kardoss: New Auxiliary Studies Update the Pioneering Book in Space and Earth Science Education in Hungary* [#1555]  
 E. Szádeczky-Kardoss (1903–1984) defined the synoptic and synthesising earth science as geonomy. Our multidisciplinary subcommission of the HAS undertook a review and updating of this book for space and earth science education in Hungary.
- Hegyi S. Kovács B. Keresztesi M. Gimesi L. Halász A. Bérczi Sz.  
*New Gas Sensing Device to the Hunveyor-2 University Lander of the Pécs University, Hungary* [#1181]  
 New optical sensing device for ammonia gas was prepared for Hunveyor-2 university lander. Sensor was made by immobilizing the ammonia sensitive dye on an Al<sub>2</sub>O<sub>3</sub> surface (no polymer was used) making it more resistant to environmental changes.
- Hudoba Gy. Sasvári G. Kerese P. Kiss Sz. Bérczi Sz.  
*Hunveyor-4 Construction at Kandó Kálmán Electrical Engineering Faculty of Budapest Polytechnic, Székesfehérvár, Hungary* [#1543]  
 We report about the construction and main system characteristics of the fourth Hungarian University Surveyor at Székesfehérvár, Budapest Polytechnic, Kandó Kálmán Faculty of Electrical Engineering, Institute of Computer Technology, Hungary.
- López C. de Pablo M. A. Castilla G.  
*From Madrid to the Sky: An Experience, Out of the Classroom, to Understand the Size of the Solar System* [#1055]  
 To understand the size and the distance between the planets and the Sun its the objective of this didactic activity that it could be developed in the streets of a city.

Martín L. López C. Castilla G. de Pablo M. A.

*Design and Construction of an Adjustable Shooter for the Modelization of Impact Craters in the Classroom* [#1054]

In this work is presented a shooter for the modelization of impact craters with students and the public to introduce them into the Planetary Sciences.

Montoya I. Nieto A. B. de Pablo M. A.

*Mars 3D: A Virtual Fieldstrip by the Red Planet in the Classroom* [#1089]

We show how to create 3D digital elevation models and anaglyphs of the surface of Mars in order to introduce the pupils and the public to the general geology of the Red Planet.

Nieto A. B. López C. de Pablo M. A. Castilla G. Montoya I.

*The Geology of Mars Through 3D Digital Videos in the Classroom* [#1053]

Here is presented a didactic activity that employ informatic tool to introduce to the students into the public on the planetary geology and to the geology of Mars.

Uceda E. R. De Pablo M. A. Castilla G.

*Terrestrial Impact Craters: What Can We Learn About the Earth and Other Bodies of Our Solar System? Didactic Activities* [#1094]

Using the multidisciplinary character of the planetary sciences, secondary education students can extract information about terrestrial impact craters with the aid of some mathematical equations and simple physical concepts.