

**Thursday, March 18, 2004**  
**POSTER SESSION II: UNDERGRADUATE EDUCATION AND RESEARCH PROGRAMS,**  
**FACILITIES, AND INFORMATION ACCESS**  
**7:00 p.m. Fitness Center**

Roark J. H. Masuoka C. M. Frey H. V.

*GRIDVIEW: Recent Improvements in Research and Education Software for Exploring Mars Topography* [#1833]

We continue to add enhancements to a scientific visualization tool called GRIDVIEW (<http://core2.gsfc.nasa.gov/gridview/>) that can be used by researchers and students to study and explore the topography of Mars.

Gerszewski M. T. Cui P. Kanupuru V. Hardersen P. S.

*Software and Hardware Upgrades for the University of North Dakota Asteroid and Comet Internet Telescope (ACIT)* [#1729]

The Asteroid and Comet Internet Telescope of the University of North Dakota Space Studies department has gone through several upgrades and changes since the last publication. Upgrades completed and future goals for this now operational internet observatory will be presented.

Marcus R. A. Melosh H. J. Collins G. S.

*Web-based Program for Calculating Effects of an Earth Impact* [#1360]

The Earth Impact Effects Program is an easy-to-use web-based program to calculate various pertinent environmental consequences of an impact event on Earth at a specified distance away.

Nehru C. E.

*On-Line Education, Web- and Virtual-Classes in an Urban University: A Preliminary Overview* [#1712]

On-line education, Virtual-classes and Web-based education, are examined in terms of an Urban University setting; advantages and disadvantages and future prognosis are discussed.

Kabai S. Bérczi Sz.

*Modelling Planetary Material's Structures: From Quasicrystalline Microstructure to Crystallographic Materials by Use of Mathematica* [#1081]

In our planetary materials course we used Mathematica design in modeling various materials' structure (quasicrystalline impact materials, Widmannstadten texture, opal, metallic glassy and industrial materials).

Bérczi Sz. Józsa S. Szakmány Gy. Kubovics I. Puskás Z. Fabriczy A. Unger Z.

*How We Used NASA Lunar Set in Planetary and Material Science Studies: Textural and Cooling Sequences in Sections of Lava Column from a Thin and a Thick Lava-Flow, from the Moon and Mars with Terrestrial Analogue and Chondrule Textural Comparisons* [#1246]

We studied cooling textures of basalts of NASA lunar, chondrules of NIPR Antarctic meteorite sets and reconstructed textures of a thick lava column of a mafic lava flow on planetary surface; terrestrial counterparts were also involved in comparisons.

Hegyí S. Kovács B. Imrek Gy. Csapó L. Bérczi Sz.

*Classroom Teaching of Space Technology and Simulations by the Husar Rover Model* [#1093]

In our teaching program the minimal space probe pair Husar rover and Hunveyor was used to demonstrate the design and construction of these robots parallel with space technologies and simulations of complex planetary surface activities.

Hudoba Gy. Kovács Zs. I. Pintér A. Földi T. Hegyi S. Tóth Sz. Roskó F. Bérczi Sz.  
*New Experiments (In Meteorology, Aerosols, Soil Moisture and Ice) on the New Hunveyor Educational Planetary Landers of Universities and Colleges in Hungary* [#1572]

We developed 3 packages of new experiments on 7 Hunveyors in construction in Hungarian colleges:

- a) measurements for main wind parameters, b) measuring the soil ice content and moisture level, and
- c) bacteria and aerosol collecting package.

Gimesi L. Béres Cs. Z. Bérczi Sz. Hegyi S. Cech V.

*Teaching Planetary GIS by Constructing Its Model for the Test Terrain of the Hunveyor and Husar* [#1140]

In our course GIS type geo-informatics was learned by students while they constructed it to the Hunveyor's planetary test-terrain. Other methods of spatial informatics (neural networks, 3D digital terrain model) were also involved in this work.

Antonenko I.

*Undergraduate Students: An Untapped Resource for Planetary Researchers* [#2156]

Independent study courses can be coopted by academic faculty to create a modest research program staffed by undergraduate students.

Józsa S. Bérczi Sz.

*Analog Sites in Field Work of Petrology: Rock Assembly Delivered to a Plain by Floods on Earth and Mars* [#1608]

We compared analog site situation of Martian Pathfinder's rock observations where on the landing site the floods of the Ares Vallis river transported the rock types of the southern highlands onto the Chryse Planitia.

Pieters C. M. Hiroi T.

*RELAB (Reflectance Experiment Laboratory): A NASA Multiuser Spectroscopy Facility* [#1720]

RELAB is a multiuser facility that provides high quality spectroscopy data (0.3 to 50  $\mu\text{m}$ ) without charge to scientists and students in NASA planetary exploration programs.

Eichhorn G. Accomazzi A. Grant C. S. Kurtz M. J. Henneken E. A. Thompson D. M. Murray S. S.  
*Full Text Searching and Customization in the NASA ADS Abstract Service* [#1267]

The ADS provides free online access to over 3.5 million abstracts and over 2.5 million scanned pages of the astronomical, planetary and physics literature, including full text searching and personalized notification (myADS) at <http://ads.harvard.edu>.