

Tuesday, March 20, 2012

POSTER SESSION I: EDUCATION AND PUBLIC OUTREACH: HIGHER EDUCATION
6:00 p.m. Town Center Exhibit Area

Budney C. J. Lowes L. L. Sohus A. M. Wessen A. S. Stelzner T. D. Urban A.

[NASA Planetary Science Summer School: Preparing the Next Generation of Planetary Mission Leaders](#) [#2721]

NASA's PSSS prepares the next generation of engineers and scientists for solar system exploration missions. Each summer, PhD candidates and post-doctoral students work with JPL's Team X to develop a mission concept and present it to a review board.

Dove A. Poppe A. Fagan A. L. Neish C. Fuqua H. Kramer G. Szalay J. Horanyi M.

[LunGradCon: The Lunar Graduate Student Conference](#) [#2713]

LunGradCon was created to enhance the professional development of graduate students and early postdoctoral researchers by providing an opportunity to present and discuss scientific research in an environment of their peers.

Kring D. A. Mendell W. W. Shaner A. J. Shipp S. S. Tygielski J. D.

[The Lunar Exploration Summer Intern Program: Plugging Students into the Lunar Science and Exploration Pipeline](#) [#2814]

The Lunar Exploration Summer Intern program at the Lunar and Planetary Institute gives graduate and advanced undergraduate students the opportunity to be involved in planning future lunar missions.

de Wet A. P. Bleacher J. E. Garry W. B.

[Origins of Sinuous and Braided Channels on Ascraeus Mons, Mars — A Keck Geology Consortium Undergraduate Research Project](#) [#2502]

This Keck Geology Consortium project, involving four undergrad geology students, mapped and analyzed sinuous channel features on Ascraeus Mons, Mars, to better understand the role of volcanic and fluvial processes in the geological evolution of Mars.

Hegyí S. Kereszturi A.

[E-Learning System to Fuse Planetary Science and Engineering Issues](#) [#1812]

Based on a realized e-learning course we tested how planetary science could be integrated into the education of engineering issues under natural sciences. Several experiences are presented here based on the online course in the autumn of 2011.

Chan M. A. Robinson J. K.

[Mars for Earthlings: A Higher Educational Terrestrial Analog Approach for Teaching Integrated Earth and Planetary Science](#) [#1184]

"Mars for Earthlings" teaching modules use Earth analogs to explore Mars at an introductory college level. This integrated approach increases science literacy and attracts students to STEM disciplines.

Urquhart M. L. Montgomery H. A.

[Designing an Earth and Space Science Course Sequence for In-Service Teachers](#) [#2324]

We describe the design for a specific set of courses including a significant NASA-influenced space sciences component to provide Texas in-service precollege teachers with the knowledge and resources necessary to be successful with their own students.

Bérczi Sz. Nagy Sz. Gyollai I. Józsa S. Szakmány Gy. Varga T. N. Varga T. P. Gucsik A.

[How we Used the NASA Lunar Sample Set in the Planetary and Material Analog Studies: Lunar and Industrial Implications from the Comparison of Textures and Processes](#) [#1399]

NASA's lunar sample set is an ideal collection for teaching material science through textures, as a result of both natural and industrial processes, which both have comparable parameters. Exotic lunar petrography makes this subject attractive.

Allen J. Galindo C. Luckey M. Reustle J. Todd N. Allen C.

[*Lunar and Meteorite Thin Sections for Undergraduate and Graduate Studies*](#) [#2805]

Lunar and meteorite thin sections sets are available from JSC Curation for loans to domestic university petrology classes. See the new website for information <http://curator.jsc.nasa.gov/Education/index.cfm>.

Hargitai H. Simonné-Dombóvári E. Gede M.

[*A 3D Planetary Neocartographic Tool in Education: A Game on Virtual Moon and Mars Globes*](#) [#1783]

The paper describes the educational use of online virtual globes of Mars and the Moon. The game uses topographic globes of Mars (MOLA) and the Moon (LRO DTM) that includes IAU nomenclature + informal names. Students have to position the points described.