

Thursday, March 20, 2003
POSTER SESSION II
7:00 p.m. Fitness Center

Education and Public Outreach

- Gakin R. Lewis K. Simmons J. Gchachu K. Karner J. M. Newsom H. E. Jones R. H.
Development of a Digital Meteorite Identification Program at University of New Mexico (UNM) (Institute of Meteoritics) and Southwestern Indian Polytechnic Institute (SIPI) [#1443]
 Determining the origin and chemical composition of suspect meteorite samples via the Scanning Electron Microprobe.
- Lindstrom M. M. Tobola K. W. Stocco K. Henry M. Allen J. S.
Space Rocks Tell Their Secrets: Space Science Applications of Physics and Chemistry for High School and College Classes [#1404]
 The question "How do we know these meteorites are from Mars?" sets the stage for a three-lesson instructional package. Expanding on the short answer "It's the chemistry", students are introduced to research that reveals the rocks' true identities.
- Caldwell A. Foos M.
Connecting Students to Meteorite Recovery and Research [#1006]
 Through the use of technology and innovative activities, students at all levels have the opportunity to participate in authentic meteorite research.
- Bérczi Sz. Szakmány Gy. Józsa S. Kubovics I. Puskás Z. Unger Z.
How We Used NASA Lunar Set in Planetary and Material Science Studies: Comparison of Breccias from Moon, Earth, Asteroids and Ancient Ceramics by Textures and Processes [#1115]
 Various types of brecciation were studied on NASA Lunar Set, NIPR Antarctic meteorite set, chondritic meteorites from Hungary, terrestrial rock samples and ceramic industrial samples; their processing steps were compared in our course.
- Klug S. L. Christensen P. R. Watt K. Valderrama P. Watt S.
Encouraging Student Interest in Science, Math, and Technology Using an Authentic Research Model: First Year Results from the Mars Student Imaging Project [#2085]
 Mars Student Imaging Project First Year Results: The first year of the Mars Student Imaging Project has been extremely encouraging with a wide range of student grade levels participating and representing a wide geographic distribution of teams.
- Beiersdorfer R. E. Valderrama P. Singler C. R.
Teaching General Education College Science Via the Mars Student Imaging Project [#1498]
 Asking and answering scientific questions using recent data acquired from the THEMIS instrument aboard the Mars Odyssey spacecraft is a great way to motivate college students enrolled in a required General Education science laboratory class.
- Keller J. W. Roark J. H. Sakimoto S. E. H. Stockman S. Frey H. V.
3-Dimensional Topographic Models for the Classroom [#1973]
 We are developing a suite of solid plastic 3-D topographic models and classroom materials which will be made available to students to aid exploration of topography and its fundamental importance to understanding planetary structure and evolution.

Livingston A. Lewis K. Simmons J. Chavez D. Gchachu K. Newsom H. E. Sutherland V. Gordon H. Hare T. M.

Examining Topography of Mars Impact Basins to Determine If Impact Basins Have Topographic Characteristics of a Crater [#1921]

Testing the impact origins of large Mars basins using GIS technology and topographic analysis.

Kadel S. D. Greeley R. Figueredo P. H.

A Tale of Two Deserts: The Southwestern U.S. and Mars in the Classroom [#1020]

A Tale of Two Deserts is a set of interactive computer-based exercises that introduces educators and their students to water-formed features in desert environments on Earth and potentially similar landforms on Mars using images and physical modeling.

Fuchs M. P. Green T. J. Levant J. M. S. Nunez J. I. Bowman C. D. Sherman D. M.

Students Work Alongside Scientists to Test Mars Rover [#1334]

NASA's Mars Exploration Rover Mission will provide an exciting opportunity to directly engage high school students in scientific discovery on Mars by incorporating them into the mission's science team through the Athena Student Interns Program.

Campi R. A. Sharpton V. L.

The Global Impact Studies Project: A Web-based Resource for Researchers and Educators Interested in Terrestrial Cratering [#2017]

The Global Impact Studies Project attempts to consolidate research on terrestrial impact cratering and make resources available to the public and researchers via the internet.

Lowes L. Lindstrom M. M. Stockman S. Scalice D.

Reuniting the Solar System: Integrated Education and Public Outreach Projects for Solar System Exploration Missions and Programs [#1991]

The Solar System Exploration Education Forum has worked to foster E/PO cooperation among missions and programs to leverage resources and better meet the needs of educators and the public. These efforts are coming together in 2004.

Urquhart M. L.

Space Science in the Early Elementary Classroom: A New Twist on the Classic Scale Model Solar System Activity [#1658]

The K-2 Scale Model Solar System is based upon similar activities for older students, but with important differences: age-appropriate learning goals, an engaging approach, and it is not intended to substitute for later instruction.

Fauerbach M. Lucas M. P. Mon M. J. Schonberg S.

Increasing Public Outreach in Astronomy Through Digital Imaging Technology [#1073]

The use of inexpensive, easy to use, portable, and readily available digital imaging technology to accommodate a large and diverse audience for astronomical events was studied in this project.

Roman M. J. Hunt T. S. Yoon J. Miller D. P.

The Sooner Lunar Schooner Mission [#2126]

This paper describes the results of an ongoing design project for a robotic mission to explore the long-term exposure effects of the lunar environment.

Hargitai H. Berczi Sz. Kereszturi A. Opitz A. Sik A. Weidinger T. Tepliczky I. Bradak B.

Outreach Activity of the Planetology Group of Eotvos University, Hungary: Experimental Programs and Experiences [#1547]

We present the experiences of our activity: with details from our Atlas of Planetary Atmospheres, our biweekly radio talkshow "Radio Telescope", the multilingual Map of Venus, and the planetology training of highschool teachers of geography.