Tuesday, July 22, 2003
POSTER SESSION I: FUTURE MISSIONS
4:30–6:30 p.m.  Dabney Garden

Beagle Instruments

Sims M. R.  Pullan D.

Beagle 2: Seeking the Signatures of Life on Mars [#3005]
ESA’s Beagle 2 lander will land on Mars to search for signatures of present and past life. A Gas Analysis Package (GAP) with a mass spectrometer, XRF, Mossbauer, stereo cameras, microscope, environmental sensors, rock corer/grinder, and a Mole attachment are on the lander.

Sims M. R.  Pullan D.  Whitehead S.

The Microscope for the Beagle 2 Lander on ESA’s Mars Express [#3015]
The microscope for the Beagle 2 lander on Mars Express will provide 4 µm per pixel images of rock and soil samples. The instrument is described and test results are presented.

Wilson C. F.  Zarnecki J. C.

The Beagle 2 Environmental Sensors: Intended Measurements and Scientific Goals [#3024]
The Beagle 2 lander, due for arrival on Mars in December 2003, carries an Environmental Sensors Suite to monitor the local meteorology and carry out simple dust and oxidant measurements. The suite is described, and the scientific goals are discussed.

Ng T. C.  Yung K. L.  Yu C. H.  Chan C. C.

First Planetary Rock Coring in Our Solar System...ESA 2003 Beagle 2 Mars Lander [#3035]
In 2003, ESA will send a Mars Lander Beagle 2 to search for life. There are three sampling tools onboard: 1) Rock Corer - which is able to retrieve powdered samples. 2) Scoop - which is able to retrieve soil samples on the surface of Mars. 3) Mole - which is able to retrieve subsurface soil samples.

Richter L.  Gromov V. V.  Kochan H.  Kosacki K.  Tokano T.

The Planetary Underground Tool (PLUTO) Experiment on the Beagle 2 Mars Lander [#3180]
The present paper describes design, operations, and science objectives of the PLUTO Mole subsurface soil sampler of the Beagle 2 Mars lander, for subsurface soil sampling with the objective to look for organic molecules as well as water.