

Thursday, March 20, 2003
MISSIONS AND INSTRUMENTS
8:30 a.m. Salon A

Chairs: A. F. Chicarro
T. Hoogenboom

Chicarro A. F. *

Europe Goes to Mars and Venus — The Mars and Venus Express Missions [#1145]

The European Space Agency has undertaken an ambitious planetary exploration programme aiming at Mars, the Moon, Mercury, Titan and comet Wirtanen. Now, a new mission to Venus has been added that would reuse both the Mars Express bus and many of its instruments, hence its name of Venus Express.

Whitby J. A. * Rohner U. Benz W. Wurz P.

A Laser-Ablation Mass Spectrometer for the Surface of Mercury [#1624]

A snapshot of the development of an instrument capable of making *in situ* elemental and isotopic measurements on the surface of a rocky planet or planetesimal. Designed with the BepiColombo mission to Mercury in mind.

Barraclough B. L. * Wiens R. C. Steinberg J. T. Dors E. E. Neugebauer M. Burnett D. S. Gosling J. T. Bremner R. R.

The Genesis Solar Wind Collection Mission: Current Status [#1232]

A brief review of the NASA Genesis mission is presented and the three types of solar wind samples that are being collected for return to Earth are discussed. The current status of the mission is given and the sample collection history through the end of 2002 is summarized.

Jurewicz A. J. G. Jones S. M. * Tsapin A. Mih D. T. Connolly H. C. Jr. Graham G. A.

Locating Stardust-like Particles in Aerogel Using X-Ray Techniques [#1228]

To allow individual PIs to locate and extract particles in their own laboratories, we are exploring the application of standard X-ray equipment and commercial techniques for precisely locating specific particles in aerogel.