

Thursday, March 15, 2007
VENUS
3:00 p.m. Crystal Ballroom B

Chairs: R. A. Simpson
P. J. McGovern

- 3:00 p.m. McGovern P. J. * Rumpf M. E.
Implications of Volcanic Edifice Shapes and Structures for the Volcanological and Thermal Evolution of Venus [#2387]
 The recently discovered link between volcanic edifice shape and lithospheric thickness has several important implications for Venus. Some coronae are simply strangely shaped volcanic edifices. Edifice shapes may allow mapping of lithosphere thickness.
- 3:15 p.m. Kostama V.-P. * Törmänen T.
Giant Spiders of Venus — Redefinition, Revised Population, and Implications of Formational Processes of Arachnoids [#1639]
 The large population of volcano-tectonic structures is characteristic to the surface of Venus. In addition to the well studied coronae, there are other smaller groups of features, such as the arachnoids.
- 3:30 p.m. Ivanov M. A. * Head J. W.
Semuni Dorsa: An Extinct Zone of Convergence, Underthrusting and Subduction on Venus? [#1031]
 Topography, structure, stratigraphy and geological history suggest the Semuni Dorsa ridge belt, located along the northern margin of Fortuna Tessera, represents a zone of convergence, shortening, underthrusting, crustal thickening and possible subduction on Venus.
- 3:45 p.m. Oshigami S. * Namiki N. Komatsu G.
A Thermal Erosion Origin for Venusian Sinuous Rilles [#1185]
 We reconstructed cross-sections of nine venusian sinuous rilles by using a radar clinometric method. It is shown that floors of these channels are clearly lower than surrounding plains. The depths are strongly related to distance from the source region, implying thermal erosion for the origin.
- 4:00 p.m. Simpson R. A. * Tyler G. L. Häusler B. Pätzold M.
Search for Anomalous Surface Properties at Maxwell Montes with Venus Express Bistatic Radar [#2240]
 Venus Express bistatic radar experiments have confirmed anomalously high surface dielectric constants within Maxwell Montes; although the data are noisy, the phase shift that would be expected for a conducting surface is not seen.
- 4:15 p.m. Izenberg N. R. * Helbert J. Prockter L. M. McAdams J. V. Solomon S. C. McClintock W. E. Müller N.
The MESSENGER 2007 Venus Flyby: Peeking Through Atmospheric Windows with MASCS, MDIS, and Venus Express' VIRTIS [#1305]
 Unique complimentary observations of Venus' atmosphere, surface, and space environment are planned between the Mercury-bound MESSENGER spacecraft, and ESA's VEX spacecraft currently orbiting Venus, during MESSENGER's second Venus flyby.
- 4:30 p.m. Aittola M. Raitala J. * Basilevsky A. T. Ivanov M. A. Head J. W.
Landing on Venus: Past and Future [#1330]
 This paper briefly reviews what was done in previous landings by the Venera/Vega spacecraft, discusses a new approach for selection of the landing sites, and considers a few candidate sites for future landings on Venus.