Tuesday, March 15, 2005
VENUS
3:15 p.m. Salon A

Chairs: V. L. Hansen
S. E. Smrekar

3:15 p.m. Hansen V. L. *
**Crustal Plateaus as Ancient Large Impact Features: A Hypothesis [#2251]**
An alternate hypothesis of crustal plateau formation through deformation and progressive crystallization of a huge lava pond, that results from massive melting of the mantle due to bolide impact with ancient thin Venus lithosphere is presented.

3:30 p.m. Martin P. *  Stofan E. R.  Glaze L. S.
**Analysis of Coronae in the Parga Chasma Region, Venus [#1617]**
Parga Chasma is a 10,000 km long fracture and trough system in the southern hemisphere of Venus. We perform a statistical analysis of the spatial distribution of coronae in this region, and examine the variations in volcanism and relative timing of corona formation with respect to local rifting.

3:45 p.m. Smrekar S. E. *  Stofan E. R.  Buck W. R.  Martin P.
**Parga Chasma: Coronae and Rifting on Venus [#2324]**
Do coronae occur along rifts due to regional extension or do coronae cause extension? We estimate trough widths, elastic thickness and crustal thickness for segments of Parga Chasma and compare them with models of regional uniform rifting.

4:00 p.m. Basilevsky A. T. *  Head J. W. III
**Venus: Geologic Mapping and History of the Beta Regio Structure [#1050]**
Geologic mapping of V17 Beta Regio complemented with other studies of this area and the geophysical modelling showed that the Beta tectonic uplift started close to the time T (mean surface age of Venus) and still continued after 0.5T.

4:15 p.m. Grindrod P. M. *  Nimmo F.  Stofan E. R.  Guest J. E.
**Strain as an Indicator of Multiple Episodes of Uplift and Extrusion at Radially-fractured Centers on Venus [#1304]**
We have measured the strain recorded at four radially-fractured centers on Venus, and modeled it in terms of uplift caused by the inflation of a spherical magma body at depth.

4:30 p.m. Ivanov M. A. *  Head J. W. III
**Abundance, Geological Settings, and Areal Distribution of Young Small Shield Volcanoes on Venus [#1046]**
Analysis of the stratigraphic position of small shields shows that ~10% of the total population of these structures postdates emplacement and deformation of regional plains, which is poorly consistent with the nondirectional model of Venus history.