Tuesday, August 19, 2008
SYMPOSIUM: DRILLING OF IMPACT STRUCTURES I
2:00 p.m. Hippo Room

Chairs: **Christian Koeberl**
J. Wright Horton

2:00 p.m. Koeberl C. * **[KEYNOTE]**
What can be Learned from Drilling into Impact Craters: A Review of Recent Projects **[#3083]**
Discover of some features, as well as study of the subsurface of impact structures, involves drilling. Recent efforts at Chicxulub, Bosumtwi, and Chesapeake Bay are described.

2:30 p.m. Horton J. W. Jr. * Kunk M. J. Belkin H. E. Aleinikoff J. N. Jackson J. C. Chou I.-M.
Investigations of Impactites and Crystalline Target Rocks in the ICDP-USGS Eyreville-B Core, Chesapeake Bay Impact Structure **[#3102]**
Studies of deep drill cores from the Chesapeake Bay impact structure provide insights into marine cratering processes.

2:45 p.m. Powars D. S. * Catchings R. D. Gohn G. S. Horton J. W. Jr Edwards L. E. Daniels D. L.
Geophysics and Deep Coreholes Reveal Anatomy and Complex Infilling of the Central Crater, Chesapeake Bay Impact Structure, U.S.A **[#3087]**
Seismic and corehole studies within the Chesapeake Bay impact structure reveal that target asymmetry significantly affected the complex infilling of the crater.

3:00 p.m. Elbra T. * Kontny A. Pesonen L. J.
Rock Magnetic Investigations of Impactites from Deep Drill Cores of Bosumtwi and Chesapeake Bay Impact Structures **[#3042]**
We present and compare our rock magnetic investigations of the deep drill core samples from Bosumtwi and Chesapeake Bay impact structures. Results show that pyrrhotite and magnetite are carrying magnetic properties of impactites in both structures.

3:15 p.m. Horton J. W. Jr. * Gibson R. L. Reimold W. U. Wittmann A. Gohn G. S. Edwards L. E.
Geologic Column for the ICDP-USGS Eyreville-B Core, Chesapeake Bay Impact Structure: Impactites and Crystalline Rocks, 1,095–1,766 m **[#3091]**
The ICDP-USGS Eyreville drill cores in the Chesapeake Bay impact structure provide one of the most complete geologic sections ever obtained from an impact structure. Geologic columns are presented for the deepest sections.

3:30 p.m. Bartosova K. * Koeberl C. Reimold W. U.
Stratigraphy of the Impactite Section (1397–1551 m) from the Eyreville Drillcore, Chesapeake Bay Impact Structure, USA **[#3013]**
Petrographic analyses of impactites from the Eyreville drill core, Chesapeake Bay impact structure. Suevites from the impactite section (1397–1451 m) were divided into six subunits according to their clast and melt content and characteristics.

3:45 p.m. BREAK