

Tuesday, August 19, 2008
TERRESTRIAL CRATERING II (continued)
8:30 a.m. Hippo Room

Chairs: Roger Gibson
Jared Morrow

- 8:30 a.m. Baegi M. *
[Carbonatites Versus Meteorite Impact Origin of Two Circular Structures Outcrop at Eastern Al-Awaynat Area, SE Libya](#) [#3036]
 Two major circular structures of 3 km in diametres each, located about 120 km southwest of Jabal Arkeno were identified by airborne geophysical survey in 1973, and designated as R33 and R34A.
- 8:45 a.m. Di Martino M. * Cigolini C. Orti L.
[Non-Impact Origin of the Arkenu Craters \(Libya\)](#) [#3012]
 Our study suggests the Arkenu craters (S-E Libya) are not of impact origin, but have been formed by the intrusion of a paired nearly cylindrical subvolcanic stocks (coupled with ring dike injection) accompanied by hydrothermal degassing.
- 9:00 a.m. Anhaeusser C. R. * Stettler E. Cooper G. R. J. Gibson R. L.
[Setlagole Megabreccia, South Africa: Clues to a Possible Mesoarchaeon Impact Event and Aeromagnetic Recognition of a c.30 km Concentric Multiple Ring Structure](#) [#3053]
 A spectacular Archaeon megabreccia in the granite-greenstone terrane of the North West Province South Africa led to the recognition of a new, possible Mesoarchaeon-age, impact site exceeded in size only by the Vredefort and Morokweng structures.
- 9:15 a.m. Muttik N. * Kirsimäe K. Osinski G. R. Somelar P. Vennemann T. W.
[Alteration of Surficial Suevites at the Ries Crater, Germany: Mineralogical and Stable Isotope Evidences](#) [#3003]
 The origin of secondary phases in surficial suevites has been interpreted as resulting from post-impact hydrothermal processes. We show that the alteration has occurred due to weathering processes other than impact induced hydrothermal alteration.
- 9:30 a.m. Buchner E. * Kenkmann T.
[Upheaval Dome, Utah, USA: Impact Origin Confirmed](#) [#3005]
 We have documented shocked quartz grains of the Upheaval Dome structure, Utah, USA, with multiple sets of thin planar deformation features that provides definite evidence for the impact origin of Upheaval Dome.
- 9:45 a.m. Lambert P. *
[Impact Deposits at Rochechouart-Chassenon](#) [#3034]
 Excavation and readjustment did not mix nor homogenise proximal ejecta at Rochechouart-Chassenon large impact crater. The structure is much less eroded than previously thought and actual deposits which include airborne ash, are representative of the initial crater fill.
- 10:00 a.m. Dypvik H. * Kalleson E.
[Marine Impacts — Mechanisms of Early Post-Impact Crater Sedimentation](#) [#3004]
 In marine craters comparable post-impact sedimentary successions have been found; developing from avalanches, screes, slides and slumps, through mass flows before ending with density currents and fine-grained sedimentation from suspension.
- 10:15 a.m. BREAK