

Tuesday, July 27, 2010  
**IMPACT PROCESSES AND IMPACT CRATER STRUCTURES**  
 8:30 a.m. Skyline

- Chairs:** Alex Deutsch  
 Frank Kyte
- 8:30 a.m. Buchner E. Schmieder M.  
[\*New Insights into the Steinheim Central Uplift – Part I: Shatter Cones in Claystone Lithologies \('Opalinuston', Middle Jurassic\)\*](#) [#5010]
- 8:45 a.m. Reimold W. U. \* Hansen B. K. McDonald I. Koeberl C. Jacob J. Stöffler D. Meyer C.  
[\*The SUBO 18 \(Enkingen\) Drill Core from the Ries Crater, Southern Germany\*](#) [#5027]
- 9:00 a.m. Marrero S. Phillips F. M. Caffee M. W. Smith S. S. Kring D. A. \*  
[\*Re-Dating the Barringer Meteorite Crater \(AZ\) Impact Using the Cosmogenic Chlorine-36 Surface Exposure Method\*](#) [#5150]
- 9:15 a.m. Goldin T. J. \* Koeberl C. Melosh H. J.  
[\*The Fate of Ejecta Rays in the Earth's Atmosphere: From Popigai to Chicxulub\*](#) [#5261]
- 9:30 a.m. Deutsch A. \* Schulte P. Salge T.  
[\*Carbonate Spherules in the K-Pg Event Deposit are Chicxulub Ejecta\*](#) [#5275]
- 9:45 a.m. Salge T. \* Newsom H.  
[\*Resorbed Andradite Garnet in the Lower Yaxcopoil-1 Impact Melt Breccia: Evidence for Hydrothermal Processes at  \$T > 300^{\circ}\text{C}\$\*](#)  [#5337]
- 10:00 a.m. Kyte F. T. \* Omura C. Gersonde R.  
[\*Accretionary Growth of Impact Spherules\*](#) [#5376]
- 10:15 a.m. Smith F. C. \* Zullo J. B. Glass B. P. Simonson B. M.  
[\*Discovery of a Shock-induced Polymorph of Rutile with  \$\delta\text{-PbO}\_2\$  Structure \( \$\text{TiO}\_2\text{II}\$ \) in Four Neoproterozoic Spherule Layers from Western Australia and South Africa\*](#) [#5420]
- 10:30 a.m. Xie Z. \* Wang H. Qian H. Jiang S. Huang Z. Shi G. Sharp T. G. DeCarli P. S.  
[\*New Impact Evidences Discovered in the Vicinity of Tai Lake, Southeast China: Indicating a Unique Impact Crater\*](#) [#5439]
- 10:45 a.m. Wasson J. T. \*  
[\*Splash-Form Tektites: Origin in Impact Plumes\*](#) [#5412]
- 11:00 a.m. Meyer C. \* Stöffler D. Jébrak M.  
[\*Transport Mechanisms of the Ries Suevite, Germany: From Stereometric Analyses\*](#) [#5212]
- 11:15 a.m. Koeberl C. \* Pittarello L. Brigham-Grette J. Melles M. Minyuk P.  
[\*The ICDP Drilling Project at the El'gygytgyn Impact Crater, Arctic Russia: First Studies of the Impactite Cores\*](#) [#5139]
- 11:30 a.m. Rodesney S. N. \* Harris R. S. King D. T. Jr. Petruny L. W.  
[\*Evidence for an Exposed Central Uplift in the Wetumpka Impact Structure, Alabama, USA\*](#) [#5393]
- 11:45 a.m. Chapman C. R. \* Strom R. G. Fassett C. I. Prockter L. M. Head J. W. III Solomon S. C. Banks M. E. Baker D. Merline W. J.  
[\*Cratering on Mercury: Insights from the MESSENGER Flybys\*](#) [#5325]