

Tuesday, March 21, 2017

[T301]

**POSTER SESSION I: SPECIAL SESSION:  
IODP-ICDP EXPEDITION 364 TO THE CHICXULUB IMPACT CRATER  
6:00 p.m. Town Center Exhibit Area**

- Rae A. S. P. Morgan J. V. Collins G. S. Grieve R. A. F.  
Osinski G. R. et al. **POSTER LOCATION #1**  
[Deformation, Shock Barometry, and Porosity Within Shocked Target Rocks of the Chicxulub Peak Ring: Results from IODP-ICDP Expedition 364. \[#1934\]](#)  
Peak ring formation? / Combine data and models / And answers are found.
- Zhao J. W. Xiao L. Liu H. S. Xiao Z. Y. Morgan J. et al. **POSTER LOCATION #2**  
[Shock Metamorphic Effects of the Peak Ring Granites within the Chicxulub Crater \[#1421\]](#)  
We conduct shock metamorphic effects study of the peak ring granites of the Chicxulub Crater and find no remarkable shock pressure variation from top to bottom.
- Pickersgill A. E. Mark D. F.  
Lee M. R. IODP-ICDP Expedition 364 Science Party **POSTER LOCATION #3**  
[Suitability of Impact Melt Lithologies from the Chicxulub Impact Structure for  \$^{40}\text{Ar}/^{39}\text{Ar}\$  Geochronology \[#1862\]](#)  
Chicxulub melt rocks / Are not very vitreous / Mostly small crystals.
- Kring D. A. Claeys Ph. Riller U. Xiao L. Collins G. S. et al. **POSTER LOCATION #4**  
[Emplacing Impact Melt in the Chicxulub Peak Ring \[#1213\]](#)  
Impact melt and melt-bearing breccias were incorporated into a collapsing, displaced structural uplift (DSU) of the Chicxulub impact crater.
- Schmieder M. Kring D. A. IODP-ICDP Expedition 364 Science Party **POSTER LOCATION #5**  
[Petrology of Target Dolerite in the Chicxulub Peak Ring and a Possible Source of K/Pg Boundary Picotite Spinel \[#1235\]](#)  
Spinel group minerals in dolerite recovered from the Chicxulub peak ring are compared with ejected picotite spinel previously found in K/Pg boundary deposits.
- Simpson S. L. Osinski G. R. Kring D. A. Cockell C. S. **POSTER LOCATION #6**  
[Preliminary Characterization of Hydrothermal Alteration in the Peak-Ring of the Chicxulub Impact Structure, Mexico \[#2207\]](#)  
Preliminary results reveal hydrothermal alteration has affected the peak-ring; here we outline assemblages to be used for forthcoming stable isotope analysis.
- Tikoo S. M. Zylberman W. Urrutia-Fucugauchi J. Rebolledo-Vieyra M.  
IODP-ICDP Expedition 364 Science Party **POSTER LOCATION #7**  
[Paleomagnetism of Peak Ring Units Within Chicxulub Crater \[#1491\]](#)  
The Chicxulub impact made shocks / The stress and heat magnetized rocks / In reverse directions / Except for some sections / Hydrothermal normals in blocks?
- Morgan J. V. Christeson G. L. Gulick S. P. S. Expedition 364 Scientists **POSTER LOCATION #8**  
[High-Resolution Imaging of the Chicxulub Impact Basin \[#1318\]](#)  
Imaging the Chicxulub impact basin using inversions of the full seismic wavefield.
- McCall N. Gulick S. Hall B. Riller U. Poelchau M. et al. **POSTER LOCATION #9**  
[Adjustments and Preliminary Analysis of Chicxulub Peak Ring CT Scans \[#1522\]](#)  
Overview of adjustments made to the CT scans and borehole images from the peak ring of Chicxulub impact crater from IODP-ICDP Expedition 364.

Hall B. J. Gulick S. McCall N. Rae A. S. P. Morgan J. et al. **POSTER LOCATION #10**  
[Dual Energy CT Scanning and Processing of Core from the Peak Ring of the Chicxulub Impact Structure: Results from IODP-ICDP Expedition 364](#) [#1697]

A high resolution dual energy CT scan was performed on 829 m of Exp. 364 core. Calibration with plug measurements enabled calculation of a bulk density volume.

Perez-Cruz L. Keller A. Kirtland Turner S. Choumiline K. Chenot E. et al. **POSTER LOCATION #11**  
[Paleocene-Eocene Climatic Events in the IODP-ICDP Expedition 364, Chicxulub Impact Crater: Geochemical Preliminary Results](#) [#2575]

Preliminary low-resolution geochemical data revealed short warm events in the post-impact rocks.