

Tuesday, March 20, 2018

[T332]

## POSTER SESSION I: INTERPLANETARY AND COMETARY DUST

6:00 p.m. Town Center Exhibit Area

Flynn G. J. Wirick S.

POSTER LOCATION #478

[\*From Grain Formation to Dust Aggregation in the Solar Protoplanetary Disk: The Record Preserved in Chondritic Porous Interplanetary Dust Particles\*](#) [#1168]

Primitive CP IDPs indicate grains condensed in a region where aggregation was inhibited, were transported outward and mixed, coated with organic and aggregated.

Ishii H. A. Bradley J. P.

POSTER LOCATION #479

[\*Pristine Amorphous GEMS in Anhydrous Interplanetary Dust Particles are Very Underdense\*](#) [#2368]

Pristine GEMS are ~50% dense relative to crystal assemblages of same composition, implying easy alteration, low contribution to IDP mass, and selection bias.

Croat T. K. Brownlee D. E. Joswiak D. J. Ogliore R. C.

POSTER LOCATION #480

[\*FIB-TEM Studies of a Giant Cluster Interplanetary Dust Particle\*](#) [#2469]

We present FIB-TEM results from a giant cluster IDP with a microstructure and composition suggestive of a cometary origin, and which contains GEMS-like objects.

Maroger I. Lasue J. Zolensky M.

POSTER LOCATION #481

[\*Update on Automated Classification of Interplanetary Dust Particles\*](#) [#2391]

Improved interplanetary dust particles automated classification is presented and confirms the specificity of this type of particles.

Jilly-Rehak C. E. Huss G. R. Butterworth A. L. Westphal A. J.

POSTER LOCATION #482

Gainsforth Z. et al.

[\*Chemical, Mineralogical, and Isotopic Characterization of Terminal Particles from Stardust Tracks\*](#) [#2474]

We report on our consortium study of Stardust cometary tracks, detailing the chemical, mineralogical, and isotopic diversity of new extracted terminal particles.

De Gregorio B. T. Brintlinger T. H. Stroud R. M.

POSTER LOCATION #483

[\*Fast Automated Identification of Dust Impact Craters in Aluminum Foils from the Stardust Collection\*](#) [#1255]

We describe new Python code for searching for dust impacts on Al foils from the Stardust collectors. Accurate results are obtained in only a few hours.

Engrand C. Charon E. Duprat J. Dartois E. Leroux H. et al.

POSTER LOCATION #484

[\*Ultracarbonaceous Antarctic Micrometeorites \(UCAMMs\): Clues for their Origin\*](#) [#2015]

UCAMMs are rare cosmic dust particles most probably formed in the outer regions of the protoplanetary disk. We present clues to their formation conditions.

Yamamoto K. Hashiguchi M. Yada T. Naraoka H. Nakamura T. et al.

POSTER LOCATION #485

[\*Diversity of Soluble Organic Matter in Antarctic Micrometeorites, Considering in Relation to Chondrites\*](#) [#1959]

Limited diversity of soluble organic matter in Antarctic micrometeorites pointed out the necessity of a novel method to recover them from ice and snow.

Bardyn A. Alexander C. M. O'D. Nittler L. R. Stroud R. M.

POSTER LOCATION #486

Burgess K. et al.

[\*The Cosmic Dust Sucker: Sampling Cosmic Dust Particles from Antarctic Air\*](#) [#1547]

The Cosmic Dust Sucker collect cosmic dust particles from large volumes of clean Antarctic air. We will present the cosmic dust particles found on the filters.