

Thursday, March 24, 2016

[R609]

POSTER SESSION II: STARDUST MISSION AND INTERPLANETARY DUST COMPONENTS

6:00 p.m. Town Center Exhibit Area

Ogliore R. C. Westphal A. J. Nagashima K. Huss G. R. **POSTER LOCATION #149**
[Oxygen Isotope Measurements of Comet Wild 2 Material in the Bulb of Stardust Track 184](#) [#1721]

We report the oxygen isotopic composition of 47 small particles in the bulb of Stardust cometary track 184.

Stroud R. M. De Gregorio B. T. Bassim N. D.
Westphal A. J. Butterworth A. L. et al. **POSTER LOCATION #150**
[Identification of Candidate Interstellar Dust Impact Features on Stardust Foil I1020W.1](#) [#2989]

We report the discovery of four new candidate interstellar impact features on Al Foil I1020W.1.

Westphal A. J. Butterworth A. L. De Gregorio B. T.
Lettieri R. Marchant W. et al. **POSTER LOCATION #151**
[A Massively Distributed Search for Impacts in Aluminum Foil on the Stardust Interstellar Collector](#) [#2275]

We describe a new instantiation of Stardust@home, designed for a search for impacts on the aluminum foils of the Stardust Interstellar Dust Collector.

Westphal A. J. Jones S. M. Ogliore R. C.
Nakashima K. Huss G. R. et al. **POSTER LOCATION #152**
[Oxygen Isotope Measurements of Stardust Interstellar Analogs](#) [#2970]

We report oxygen isotope measurements of interstellar dust analogs in aerogel, in preparation for analysis of Stardust interstellar dust candidates.

Haas B. A. Croat T. K. Floss C. Kearsley A. T. Burchell M. J. **POSTER LOCATION #153**
[Characterizing Comet 81P/Wild 2 with Acfer 094 Analog Foils](#) [#1597]

Analog foils created with material from meteorite Acfer 094 allow us to investigate the violent collection process present in NASA's Stardust mission.

Ishii H. A. Ciston J. Bradley J. P. **POSTER LOCATION #154**
[Advanced Electron Energy Loss Methods for Applications to Stardust and Fine-Grained Meteoritic Materials](#) [#1805]

Study of organics, state of Si and presence of H and He in IDPs, Stardust, and other fine-grained materials is advanced by TEM electron energy loss spectroscopy.

Stephan T. Trappitsch R. Davis A. M. Pellin M. J. Rost D. et al. **POSTER LOCATION #155**
[CHILI—Achieving Ultimate Performance for the Analysis of Stardust](#) [#2793]

We measured all stable Fe and Ni isotopes in SiC with CHILI. Here, we provide technical background, review recent developments, and outline future improvements.

Villalon K. L. Ishii H. A. Bradley J. P. Stephan T. Davis A. M. **POSTER LOCATION #156**
[Resolving the Ancestry of GEMS with CHILI](#) [#1796]

We propose to measure the isotopic composition of GEMS using the recently completed CHILI instrument at the University of Chicago.