

Tuesday, March 22, 2016

[T324]

POSTER SESSION I: GENESIS: LATEST RESULTS

6:00 p.m. Town Center Exhibit Area

Goreva Y. S. Burnett D. S. Jurewicz A. J. Guan Y. *POSTER LOCATION #385*[Using Combination of Near Surface SIMS and ToF-SIMS Depth Profiles as a Success Criteria for Genesis Solar Wind Collector Cleaning](#) [#2253]

Genesis collector fragments that appear clean to surface sensitive techniques may carry buried contamination if oxidizing cleaning techniques were employed.

Jurewicz A. J. G. Rieck K. D. Wadhwa M.

Burnett D. S. Hervig R. et al.

POSTER LOCATION #386[New Constraints on SW Mg Isotopes from Understanding Genesis DoS Collectors, with Implications](#) [#2350]

SW Mg isotopes from Genesis DoS gives a plausible, non-zero fractionation when the diamond-like carbon is assumed chemically and structurally inhomogeneous.

Kuhlman K. R. Kim H. Jurewicz A. J. G. Gonzalez C. P. Allums K. K.

POSTER LOCATION #387[Catastrophic Impact of Silicon on Silicon: Unraveling the Genesis Impact Using Sample 61881](#) [#2460]

Scanning transmission electron microscopy was used to investigate the interface between Genesis silicon sample 61881 and silicon contamination on its surface.

Kuhlman K. R. Schmeling M. Gonzalez C. P.

Allums K. K. Allton J. H. et al.

POSTER LOCATION #388[Small Particulate Contamination Study of Genesis Flight Sample 61423](#) [#2499]

Cellulose acetate extraction replicas were used to clean Genesis silicon sample 61423. TRXRF and SEM were used to characterize the efficacy of the replicas.

Koeman-Shields E. C. Huss G. R. Ogliore R. C.

Jurewicz A. J. G. Burnett D. S. et al.

POSTER LOCATION #389[Hydrogen Fluence Calculated from Genesis Collectors](#) [#2800]

We present final H-fluence data from Genesis DOS collectors for four solar wind regimes, compare with the Genesis Ion Monitor, give implications, and future work.

Rieck K. D. Jurewicz A. J. G. Burnett D. S.

Hervig R. L. Williams P. et al.

POSTER LOCATION #390[Bulk Solar Wind Na and K Measured in Genesis Collectors](#) [#2922]

Bulk solar wind Na and K elemental abundances were measured in Genesis silicon and diamond-like carbon collectors using secondary ion mass spectrometry.

Allton J. H. Gonzalez C. P. Allums K. K.

POSTER LOCATION #391[Genesis Solar Wind Science Canister Components Curated as Potential Solar Wind Collectors and Reference Contamination Sources](#) [#1171]

The science canister for the Genesis sample return mission has surfaces which were exposed to the solar wind and potentially useful for solar wind science.