

Tuesday, March 11, 2008
POSTER SESSION I: SOLAR WIND AND GENESIS
6:30 p.m. Fitness Center

Heber V. S. Olinger C. Baur H. Burnett D. S. Wieler R.

Genesis Solar Wind Collector Materials Tested for Fractionation and Loss due to Diffusion and Backscattering: Preliminary Data [#2327]

Different targets from the bulk collector were analyzed for He isotopic and He/Ne and Ne/Ar composition. Diffusion and backscattering lead to a preferential loss of light elements and isotopes and influence therefore the inventory of the implanted SW.

Kitts K. Choi Y. Eng P. Sutton S. R. Ghose S. Burnett D. S.

Discrimination and Quantification of Implanted Solar Wind in Genesis Collector Shards Using Grazing Incidence Synchrotron X-Ray Techniques: New Detector Initial Results [#1296]

Initial results for solar wind in Genesis collectors using a new grazing incident synchrotron XRF detector. The standing wave can be deconvolved for Ca-Fe and the angle-dependent oscillatory behavior of the wave can be modeled for abundance data.

Lyon I. C. Claydon J. L. Henkel T. Rost D. King A. Davies S.

TOFSIMS Analysis of Solar Wind Implanted Elements into Genesis Collectors: Development of High Sensitivity "Delayed Extraction" and Application to the Analysis of Silicon Collectors [#1731]

A new high sensitivity TOFSIMS analysis method is described for the analysis of solar wind implanted elements into Genesis collectors. Application and results from Si collectors are presented.

Claydon J. L. Lyon I. C. Henkel T. Rost D. King A. Davies S.

Analyzing Genesis Diamond Collectors by TOFSIMS: Development of a Method for the Simultaneous Detection of Many Solar Wind Implanted Elements [#1727]

A TOFSIMS method is described for the simultaneous analysis of implanted solar wind atoms into Genesis collectors. Results from diamond are presented indicating probable simultaneous detection of solar wind Mg and Fe.

Rodriguez M. C. Calaway M. J. Allton J. H.

Stereomicroscope Inspection of Polished Aluminum Collector 50684.0 [#2063]

The polished aluminum kidney collector was damaged during return impact in the Utah desert. Current effort focuses on documenting the residual surface. Sample features include impact craters, mud and salt deposits, and gouges from the crash.

Allton J. H. Calaway M. J. Rodriguez M. C.

Preliminary Quantification of Image Color Gradient on Genesis Concentrator Silicon Carbide Target 60001 [#1440]

This study investigates the quantification of the color variation with radial distance, observed on the SiC targets. The nature of the color variation is not addressed, but is assumed to be related to concentrator focusing.

Calaway M. J. Rodriguez M. C. Allton J. H.

Genesis Concentrator Target Particle Contamination Mapping and Material Identification [#1423]

Surface particles on three Genesis concentrator targets (two SiC and one CVD) were documented and identified for evaluating cleaning strategies.