Tuesday, March 14, 2006
GENESIS MISSION
1:30 p.m. Crystal Ballroom B

Chairs: D. S. Burnett
A. J. G. Jurewicz

1:30 p.m. Jurewicz A. J. G. * Burnett D. S. Guan Y. G. Woolum D. S.
Elemental Solar Wind Fluences of Fe and Mg from Genesis Samples [#2106]
Preliminary Fe and Mg fluences in the bulk solar wind have been determined from Genesis fragments, and are applied to understanding fractionation of solar-wind from the average photosphere. The fragments analyzed by SIMS were of “average” to “fair” quality and underwent a standard wash.

1:45 p.m. Reisenfeld D. B. * Wiens R. C. Barraclough B. L. Steinberg J. T. DeKoning C. Raines J. Zurbenchen T. H. Burnett D. S.
The Genesis Mission: The Effects of Solar Wind Conditions on the Deposition and Interpretation of the Genesis Samples [#1830]
Our analysis of Genesis samples has been complemented by composition data from the SWICS instrument on ACE. We have used the ACE data to make comparisons between in situ composition measurements and abundances determined from the Genesis samples.

2:00 p.m. Calaway W. F. * Veryovkin I. V. Tripa C. E. Savina M. R. Pellin M. J. Burnett D. S.
The Elemental Abundance of Magnesium in Solar Wind Samples Returned by Genesis [#1814]
The composition of $^{24}$Mg versus depth in a Si Genesis Discovery mission solar wind collector was measured using resonance ionization mass spectrometry. Integration of the data yields a dose of $1.02 \times 10^{12}$ atoms/cm$^2$ for the 27 month exposure.

2:15 p.m. Nishiizumi K. * Reedy R. C. Burnett D. S. Komura K. Welten K. C.
Solar Cosmic Ray Production Rate on Genesis Quartz Target [#2420]
Radionuclides made in a SiO$_2$ slab flown on Genesis have been measured. The $^7$Be/$^{10}$Be ratio is that for galactic cosmic rays. Excess activities of $^{26}$Al and $^{22}$Na are consistent with production by independently-measured solar-proton fluxes.

2:30 p.m. Heber V. S. * Wiens R. C. Burnett D. S. Baur H. Wiechert U. Wieler R.
Solar Wind Neon in the Genesis Concentrator Gold Cross by UV Laser Ablation: First Preliminary Data [#2175]
Neon was analysed along the radius of one arm of the Genesis concentrator gold cross. $^{20}$Ne amounts are in agreement with predicted values. The reproducibility of $^{20}$Ne/$^{22}$Ne is about 0.1%. But fractionation is different as predicted for O isotopes.

2:45 p.m. Grimberg A. * Bühler F. Burnett D. S. Jurewicz A. J. G. Hays C. C. Bochsler P. Heber V. S. Baur H. Wieler R.
Solar Wind Helium and Neon from Metallic Glass Flown on Genesis — Preliminary Bulk and Velocity-dependent Data [#1782]
He and Ne data have been obtained from a metallic glass flown on Genesis. We present preliminary total extraction data from the bulk solar wind and first results from studies on the putative solar energetic particle component.

3:00 p.m. Hohenberg C. M. * Meshik A. P. Marrocchi Y. Mabry J. C. Pravdivtseva O. V. Allton J. H. Burnett D. S.
Light Noble Gases from Solar Wind Regimes Measured in Genesis Collectors from Different Arrays [#2439]
We report He and Ne results from the Genesis regime samples. Fluences for all but the bulk collectors agree well with those predicted, however, the bulk fluence seems somewhat higher than predicted. No isotopic distinctions between the different regimes are apparent.