

Thursday, March 26, 2009
POSTER SESSION II: DUST FORMATION AND TRANSFORMATION
6:30 p.m. Town Center Exhibit Area

Flynn G. J. Durda D. D. Minnick M. A. Strait M.

[*Production of Cosmic Dust by Hydrous and Anhydrous Asteroids: Implications for the Production of Interplanetary Dust Particles and Micrometeorites*](#) [#1164]

Comparison of the debris from hypervelocity disruption of four hydrous CM2 meteorites to that from the anhydrous meteorite Saratov indicates the hydrous meteorites significantly overproduce dust in the 10^{-4} to 10^{-7} gram mass range.

Rietmeijer F. J. M. Hadamcik E. Pun A. Renard J.-B. Nuth J. A. III Levasseur-Regourd A. C.

[*Light Scattering by Fluffy Low-Silica Al-Fe-SiO and Ca-SiO Smokes Obtained by Non-Equilibrium Vapor Phase Condensation*](#) [#1742]

The effects of grain size, grain size distributions and bulk composition on maximum polarization and the phase angle function were studied for vapor phase condensed Ca-SiO and low-silica Al-Fe-SiO smokes, serving as analogs for comet dust.

Roskosz M. Leroux H.

[*Subsolidus Transformation of Amorphous Interstellar Dusts After Injection in a Protoplanetary Disk*](#) [#1745]

Subsolidus reheating of amorphous interstellar silicate dust analogs produces an unexpected diversity of minerals and a large redistribution of elements. Some of these phases look very similar to condensation and high-temperature products.