Tuesday, March 14, 2000
POSTER SESSION I
7:00 p.m. UHCL

Iron Meteorites

Leya I. Wieler R. Herzog G. F.
Helium and Neon in Canyon Diablo Spheroids **[#1480]**
Relative to Canyon Diablo meteorites, six Canyon Diablo spheroids contain similar quantities of ^{4}He (10^{-8} cm^{3}STP/g), ~50 to ~450, but much less ^{3}He, <=0.155, and ^{21}Ne <=0.01 due primarily to gas loss by the spheroids when molten and secondarily, to shielding in space.

Ponganis K. V. Kohl C. P. Marti K.
Nitrogen Sources in IAB/IIICD Iron Meteorites and Their Implications **[#1412]**
Nitrogen isotopic structures are reported in IAB/IIICD irons. To explain the existence of multiple N sources, models of incomplete mixing of pre-accumulation signatures in several carriers and/or of diffusion-fractionated components are discussed.

Skála R. Drábek M.
Variation of Unit-Cell Dimensions of Experimentally Synthesized Members of Fe_3P-Ni_3P Solid Solution **[#1564]**
Several members of Fe_3P-Ni_3P solid solution were synthesized and characterized by unit-cell dimensions. Parameters vary with chemistry; the difference between unit cell parameters of end-members reaches up to 1.7% and for the cell volume up to 4.9%.