Tuesday, July 28, 2015
POSTER SESSION: ACHONDRITES:
EARLY PLANETARY PROCESSES AND EVOLUTION
5:30 p.m. Hearst Memorial Mining Building (HMMB) Floor One

Harvey R. P.
Parent Body Venus: A Primer for Meteorite Researchers **[#5036]**
A brief description of the most recent ideas concerning Venus surface materials based on lander and orbital data, models of crustal evolution and laboratory experiments.

Goodrich C. A. Mikouchi T. Treiman A. H.
A Volcanic (Quenched) Angrite Clast in Polymict Ureilite DaG 319 **[#5048]**
Polymict ureilites contain foreign clasts, including angrites. Previously reported angrite clasts are of the plutonic variety. We describe a clast of a volcanic angrite in DaG 319. It shows new features compared with known volcanic angrites.

Lorenz C. A. Brandstätter F. Kononkova N. N.
Aenigmatite Mineralization in the fragment of the Dag 1064 Polymict Ureilite **[#5345]**
Aenigmatite was found in the glassy veinlet crossing the augite fragment of DAG 1064 polymict ureilite. The fragment is exotic and is different by the phase compositions from aenigmatite-bearing fragments described in the meteorites before.

Tkalcec B. J. Brenker F. E.
Plastic Deformation on the Ureilite Parent Body Revealed by Structural Analysis of Dunitic Ureilite NWA 7630 **[#5351]**
Evidence for solid-state plastic deformation in the dunitic ureilite NWA 7630 indicates the occurrence of shear deformation on the ureilite parent body. Shear deformation on the ureilite parent body may have been a contributory factor in core formation.

Chen H. Y. Miao B. K. Huang L. L.
Ancient Silicification on Asteroid 4 Vesta: Evidence from a Eucrite Grove Mountains(GRV)13001 from Antarctic **[#5003]**
GRV13001 is a new eucrite collected by CHINARE, which has complex silica metasomatism. The thermal equilibration is likely related to multi-stage magmatism that contributes both the heat and the source of silica fluid and sulfur vapor.

Lunning N. G. Hahn T. M. Beck A. W. McSween H. Y. Jr.
Lithologic Mapping of Howardites: How Many Thin Sections are Enough? **[#5071]**
Quantitative lithologic (modal) mapping of howardite thin sections is a powerful tool for examining the diversity and distribution of material within and between howardites. This poster will compare lithologic maps from multiple howardite studies.

Mittlefehldt D. W. Peng Z. X.
Petrology of Anomalous Eucrite QUE 94484 **[#5342]**
Now this is expected behavior: Duck submitting an abstract to an achondrite session. We will present the results of our petrologic study of anomalous basaltic eucrite QUE 94484.

Guan Y. Wang Y. Hsu W. Eiler J. M.
SIMS Analysis of OH and D/H of Apatites from Eucrites **[#5376]**
SIMS analyses of OH and D/H of apatites from eucrites indicate that significant amounts of water was involved in the early evolution of planetary bodies, such as Vesta, in the asteroid belts.

Irving A. J. Kuehner S. M. Ziegler K.
Petrology and Oxygen Isotopic Composition of Orthopyroxenitic Achondrite Northwest Africa 8777 and Sodic Ultramafic Achondrite Northwest Africa 10132 **[#5254]**
NWA 8777 is an olivine-poor pyroxenite containing calcic plagioclase. NWA 10132 is an albite-bearing harzburgitic achondrite related to NWA 6704.