Monday, July 14, 2014
MARS AS AN IGNEOUS SYSTEM:  I
10:15 a.m.   Beckman Auditorium

Chairs:    Carl Allen
           Lars Borg

10:15 a.m.  Grott M. *  [INVITED]
            Mars as an Igneous System:  Our Changing View from Orbit, Ground, Meteorite [#1186]
The thermo-chemical evolution of Mars will be reviewed from a global perspective.

10:35 a.m.  Agee C. B. *  [INVITED]
            Black Beauty:  Unique Martian Meteorite — A Match for Average Martian Crust [#1173]
Northwest Africa (NWA) 7034 aka “Black Beauty” is the first and only martian meteorite breccia in existence, and with the exception of the singleton orthopyroxenite ALH 84001, it is arguably the rarest of the approximately 132 martian meteorites in the world’s collections.

            Geochemistry at Gale from ChemCam:  Implications for Martian Igneous and Sedimentary Processes and for Habitability [#1170]
Gale crater contains a diversity of igneous float rocks, clasts of which are found in conglomerates. Sandstones and mudstones do not reflect this local felsic material. Hydrogen, F, Li, major and trace elements yield new clues to Mars geologic history.

11:15 a.m.  McSween H. Y. *
            Igneous, Sedimentary, and Metamorphic Petrology on Mars:  We’re Making Progress [#1053]
Full petrologic characterization of martian rocks is challenging, but data from martian meteorites and surface rovers provide new insights into the petrogenesis of igneous, sedimentary, and even metamorphic rocks.

11:30 a.m.  Lunch Break