Tuesday, April 22, 2008
SULFATES AS RECORDERS OF MARS NEAR SURFACE PROCESSES
AND THE MER SITES AS FIRST SAMPLE RETURN LOCALITIES
8:00 a.m. Alvarado ABC

Chairs: V. W. Lueth
        J. J. Papike

Lueth V. W. * [INVITED] (20 minutes)
    Encoding of Water-Rock-Atmosphere Interactions in Jarosite: Implications for Mars [#4040]

Burger P. V. * Papike J. J. Shearer C. K. Karner J. M. (15 minutes)
    Interpreting Mars Surface Fluid History Using Minor and Trace Elements in Jarosite:
    An Example from Post Pit, Nevada [#4010]

King P. L. * Lane M. D. Hyde B. C. Dyar M. D. Bishop J. L. (15 minutes)
    Fe-Sulfates on Mars: Considerations for Martian Environmental Conditions,
    Mars Sample Return and Hazards [#4017]

    Characterization of Fe-Sulfate Minerals: Preparation for Mars Sample Return [#4042]

Lueth V. W. Campbell A. R. Papike J. J. (15 minutes)
    Stable Isotope Characterization of a Terrestrial Kieserite with Comparisons to Other Sulfate Minerals [#4027]

Zolensky M. E. * Nakamura-Messenger K. (15 minutes)
    What Can You Do with a Returned Sample of Martian Dust? [#4007]

Vaniman D. T. * Bish D. L. Chipera S. J. (15 minutes)
    Salt-Hydrate Stabilities and Mars Sample Return Missions [#4025]

Mittlefehldt D. W. * [INVITED] (20 minutes)
    Mars Sample Return from Meridiani Planum [#4031]

Morris R. V. * [INVITED] (20 minutes)
    What We Might Know About Gusev Crater if the Mars Exploration Rover Spirit Mission were Coupled with a
    Mars Sample Return Mission [#4048]