Thursday, June 18, 2015
MARTIAN HABITABILITY AS INFORMED BY PAST AND ONGOING ORBITAL, LANDER, AND ROVER MISSIONS
10:30 a.m. Grand Ballroom

Chairs: **Mary Beth Wilhelm**
James Wray

10:30 a.m. Zahnle K. J. * Freedman R. S. Catling D. C.
The Muddy Matter of Methane on Mars **[#7271]**

10:45 a.m. Mahaffy P. R. *
Volatiles and Isotopes, and the Exploration of Ancient and Modern Martian Habitability with the Curiosity Rover **[#7354]**

11:00 a.m. Freissinet C. * Glavin D. P. Buch A. Szopa C. Millan M. Kashyap S. Franz H. B. Eigenbrode J. L. Brinckerhoff W. B. Navarro-Gonzalez R. Teinturier S. Malespin C. A. Prats B. D. Mahaffy P. R.
First In Situ Wet Chemistry Experiment on Mars Using the SAM Instrument: MTBSTFA Derivatization on a Martian Mudstone **[#7504]**

11:15 a.m. Bywaters K. F. * McKay C. P. Quinn R. C.
Release of Oxygen from Soils on Mars: Comparing the Viking and Curiosity Results **[#7425]**

11:30 a.m. Léveillé R. J. * Oehler D. Z. Fairén A. G. Clark B. C. Niles P. B. Blank J. G.
Jarosite in Gale Crater, Mars: The Importance of Temporal and Spatial Variability and Implications for Habitability **[#7307]**

11:45 a.m. Farmer J. D. * Bish D. L. Blake D. F. Ming D. W. Morris R. V. Vaniman D. T. Achilles C. N. Anderson R. C. Bristow T. F. Cavanagh P. D. Chipera S. J. Crisp J. A. Downs R. T. Des Marais D. J. Fendrich K. V. Grotzinger J. Morookian J. M. Morrison S. M. Rampe E. B. Treiman A. H. Sarrazin P. C. Spanovich N. Stolper E. M. Yen A. S.
Iron and Sulfur Mineralogy of Gale Crater Sediments Signals Changes in Habitable Conditions During Diagenesis **[#7267]**

12:00 p.m. Horgan B. * Rice M. S. Farrand W. Sheldon N. D. Bishop J. L.
Possible Microbial Energy Pathways from Iron and Sulfur Redox Gradients at Mawrth Vallis and Gale Crater, Mars **[#7463]**

12:15 p.m. Villanueva G. L. * Mumma M. J. Novak R. E. Kaufl H. U. Hartogh P. Encrenaz T. Tokunaga A. Khayat A. Smith M. D.
The Evolution of the Water Reservoirs on Mars Revealed via D/H Isotopic Mapping **[#7390]**

12:30 a.m. LUNCH BREAK