Monday, March 18, 2013 [M153]
SPECIAL SESSION: MARS SCIENCE LABORATORY II: SOILS AND ROCKS
2:30 p.m. Waterway Ballroom 4

Chairs: **R. A. Yingst**
Juergen Schieber

2:30 p.m. Wiens R. C. * Maurice S. Sautter V. Blaney D. Bridges N. T. et al.
Compositions Determined by ChemCam Along Curiosity's Traverse from Bradbury Station to Glenelg in Gale Crater, Mars **[#1363]**
Igneous float rocks near the landing site are highly porphyritic with abundant feldspars. Conglomerates and pebbles appeared similar in composition.

2:45 p.m. Gellert R. * Berger J. A. Boyd N. Brunet C. Campbell J. L. et al.
Initial MSL APXS Activities and Observations at Gale Crater, Mars **[#1432]**
We report and discuss initial MSL APXS chemical compositions measured during the first 102 sols at Gale Crater.

3:00 p.m. Meslin P.-Y. * Cousin A. Berger G. Forni O. Gasnault O. et al.
Soil Diversity Along Bradbury-Glenelg Traverse **[#2023]**
Overview of ChemCam measurements of soil targets during the 100 first sols of the mission.

3:15 p.m. Mitrofanov I. G. * Litvak M. Lisov D. Behar A. Boynton W. V. et al.
Content of Hydrogen at Testing Spots of the Gale Crater: The First Data from DAN Onboard the Curiosity Mars Rover **[#1487]**
The first data from active measurements by DAN instrument is presented for the content of hydrogen at testing spots along the traverse of the Curiosity Rover.

3:30 p.m. Hardgrove C. J. * Moersch J. Drake D. Mitrofanov I. G. Litvak M. et al.
Chlorine and Hydrogen Contents from the First 90 Sols of MSL DAN Active Measurements **[#1752]**
Chlorine and hydrogen abundances are derived from MSL DAN active measurements. Analysis of DAN quick-look parameters and modeling of DAN data are presented.

3:45 p.m. Yingst R. A. Goetz W. Hamilton V. E. Hipkin V. Kah L. C. et al.
Characteristics of Pebble and Cobble-Sized Clasts Along the Curiosity Rover Traverse from Sol 0 to 90 **[#1232]**
The characteristics of small clasts suggest a complex interplay of varying lithologies, transport mechanisms, and environmental circumstances at Gale Crater.

4:00 p.m. Minitti M. E. * Yingst R. A. Edgett K. S. Dietrich W. E. Hamilton V. E. et al.
Mars Hand Lens Imager (MAHLI) Observations of Rocks at Curiosity's Field Site, Sols 0–100 **[#2186]**
We describe the properties (e.g., color, structure, texture) of five rocks at Curiosity's Gale crater field site observed by MAHLI at various pixel scales.

4:15 p.m. Schmidt M. E. * King P. L. Gellert R. Elliott B. Thompson L. et al.
APXS of First Rocks Encountered by Curiosity in Gale Crater: Geochemical Diversity and Volatile Element (K and Zn) Enrichment **[#1278]**
APXS analyses of rocks to date in Gale Crater expand the range of Mars rocks to include compositions rich in volatile and alkali elements with high Fe and Mn.

4:30 p.m. Stolper E. M. * Baker M. B. Fisk M. Gellert R. King P. L. et al.
The Petrochemistry of Jake_M: A Martian Mugearite **[#1685]**
Rock "Jake_M" analyzed by the APXS on MSL is consistent with a highly fractionated alkaline rock. Its normative mineralogy and chemistry suggest a mugearite.