

Tuesday, March 19, 2013

[T252]

MARS EXPLORATION ROVER: RESULTS FROM ENDEAVOUR CRATER**1:30 p.m. Waterway Ballroom 4****Chair: Matthew Golombek**

- 1:30 p.m. Noe Dobrea E. Z. * Wray J. J. Calef F. J. Parker T. J. Murchie S. L.
[*Hydrated Minerals on Endeavour Crater's rim, Interior, and Surrounding Plains: New Insights from CRISM Data*](#) [#3079]
New analyses of CRISM data of Endeavour Crater lead to new insights on the origin, transport, and alteration of hydrated minerals at Endeavour Crater.
- 1:45 p.m. Squyres S. W. * Arvidson R. E. Athena Science Team
[*Overview of Opportunity Rover Results from Clay-Bearing Materials at Endeavour Crater*](#) [#2352]
Overview of scientific results to date from Opportunity's exploration of clay-bearing materials at Endeavour crater.
- 2:00 p.m. Crumpler L. S. * Athena M. E. R.
[*Field Geologic Context of Opportunity Traverse from Greeley Haven to the Base of Matijevic Hill*](#) [#2292]
Field geologic mapping results at Endeavour Crater by MER Opportunity has identified evidence for a long history of nonacidic water availability on early Mars.
- 2:15 p.m. Herkenhoff K. E. * Arvidson R. E. Jolliff B. L. Weitz C. M. Athena Science Team
[*Recent Results from the Opportunity Microscopic Imager*](#) [#2462]
The Microscopic Imager on the Opportunity rover continues to return useful data, most recently showing new types of spherules and bright veins at Cape York.
- 2:30 p.m. Farrand W. H. * Ruff S. W. Rice M. S. Arvidson R. E. Jolliff B. L. et al.
[*Veins in Matijevic Hill Lithologic Units Observed by Opportunity*](#) [#2482]
The occurrences of veins in the rock units of the Matijevic Hill portion of the rim of Endeavour crater, being explored by the Opportunity rover, are described.
- 2:45 p.m. Cohen B. A. * Clark B. C. Gellert R. Klingelhöfer G. Ming D. W. et al.
[*Mars Exploration Rover APXS Results from Matijevic Hill*](#) [#2294]
Basaltic outcrops / Newberries, breccias, and veins / Clays still elusive.
- 3:00 p.m. Arvidson R. E. * Bennett K. Catalano J. Fraeman A. Gellert R. et al.
[*Smectites on Cape York, Matijevic Hill, Mars, as Observed and Characterized by CRISM and Opportunity*](#) [#1286]
We describe the first groundbased observations of phyllosilicates on Mars and discuss implications based on the combined CRISM and Opportunity measurements.