Weitz C. M.  Bishop J. L.  Baker L.  Berman D. C.  
**POSTER LOCATION #506**

*Fresh Exposures of Allophane in Association with Channels and Debris Aprons in Coprates Chasma, Mars* [#1386]

We have discovered relatively fresh Fe-allophane signatures that correspond to debris and debris aprons along the wallrock slopes in Coprates Chasma, Mars.

Bishop J. L.  Rampe E. B.  
**POSTER LOCATION #507**

*The Importance of Nanophase Aluminosilicates at Mawrth Vallis* [#2068]

Nanophase species including allophane, imogolite, and hisingerite are important components of both the Al-rich and Fe-rich phyllosilicate units at Mawrth Vallis.

Velbel M. A.  Goetz W.  Hecht M. H.  Hviid S. F.  Madsen M. B.  et al.  
**POSTER LOCATION #508**

*Preliminary Identification of Minerals in Silt- and Sand-Size Grains on Mars from Phoenix OM Images Using Three-Channel Color Photometry* [#2043]

Brown grains in the very-fine sand and coarse silt size range at the Phoenix landing site consist of olivine (Fo < 41), nanohematite, and possibly jarosite.

Popa C.  Carrozzo F. G.  DiAchille G.  Silvestro S.  Esposito F.  et al.  
**POSTER LOCATION #509**

*Evidences for Copper Minerals in Shalbatana Valley, Mars* [#2340]

We report a case of direct identification of copper minerals related to supergene like alteration in Shalbatana Valley on Mars and their geological implication.

Wiseman S. M.  Ehlmann B. L.  Mustard J. F.  
**POSTER LOCATION #510**

*Characterization of Carbonate Compositions and Mineral Assemblages to Constrain Geochemical Conditions* [#2249]

Characterizing carbonate compositions and mineral assemblages is crucial for interpreting geochemical conditions and understanding martian paleoenvironments.

Gross C.  Noel A.  Bishop J. L.  Al-Samir M.  Flahaut J.  et al.  
**POSTER LOCATION #511**

*Investigating the Mineralogy, Morphology and Stratigraphy of Mound B in Juventae Chasma, Mars Using Multiple Datasets* [#1918]

We investigate the mineralogy, morphology, and stratigraphy of sulfate-bearing interior layered deposits in Juventae Chasma using CRISM, HRSC, CTX, and HiRISE data.

Lai J. C.  Horgan B.  Bell J. F. III  
**POSTER LOCATION #512**


We use near- and thermal-infrared remote sensing to infer the mineralogy of martian volcanic edifices via “windows” through the surface dust cover.

**POSTER LOCATION #513**

*Mineralogy and Geochemistry of an Icelandic Fumarole: Analog to Mars Hydrothermal Alteration* [#2815]

A mineralogical transect across an Icelandic fumarole yields a range of soluble sulfates comparable to the Columbia Hills at Gusev Crater.
Graff T. G. Morris R. V. Ming D. W. Hamilton J. C. Adams M. et al. **POSTER LOCATION #514**


We report the occurrence of a hematite-bearing breccia on Mauna Kea as a potential mineralogical and process analog for the Gale Crater hematite ridge.

Burger P. V. Shearer C. K. Sharp Z. D. McCubbin F. M. McKeegan K. et al. **POSTER LOCATION #515**

Chlorine and Cl Isotope Composition of the Martian Surface: A Perspective from Martian Regolith Breccia Sample NWA 7034 [#2302]

We explore the mineralogical reservoirs of Cl in the martian surface by examining the Cl concentration and isotopic composition in apatite from NWA 7034.