

**Wednesday, April 23, 2008**  
**HYDROUS MINERALS AS RECORDERS OF FLUID-ATMOSPHERIC EVOLUTION**  
**AND SECONDARY ALTERATION**  
**8:00 a.m. Alvarado ABC**

**Chairs: D. L. Bish**  
**D. T. Vaniman**

Bish D. L. \* Vaniman D. T. (15 minutes)

*Clay Mineralogy as a Guide to Alteration Environments on Mars* [#4022]

Mustard J. F. \* Murchie S. L. Ehlmann B. Milliken R. E. Bibring J.-P. Poulet F. Bishop J. Noe Dobrea E. Roach L. Seelos F. McKeown N. K. (15 minutes)

*Hydrated Silicate Minerals and Their Geologic Environments from Orbit* [#4038]

Milliken R. E. \* Mustard J. F. Ehlmann B. Bishop J. L. Murchie S. CRISM Science Team [INVITED] (20 minutes)

*Interpreting and Constraining the Composition and Depositional Environments of Phyllosilicates on Mars* [#4036]

Michalski J. R. \* Bibring J.-P. Poulet F. Fergason R. Mangold N. Loizeau D. Noe Dobrea E. Bishop J. L. [INVITED] (20 minutes)

*Clay-bearing Rocks in the Mawrth Vallis Region, Mars* [#4018]

Muttik N. \* Kirsimäe K. Somelar P. (15 minutes)

*Clay Minerals Formation in Impact Induced Hydrothermal Systems: Source of Hydrous Phases on Mars* [#4013]

Noe Dobrea E. Z. \* Bishop J. L. McKeown N. K. Swayze G. Michalski J. R. Poulet F. Bibring J.-P. Mustard J. F. Ehlmann B. L. Arvidson R. Morris R. V. Murchie S. Malaret E. Hash C. CRISM Team (15 minutes)

*Transition Between Altered and Non-Altered Minerals in Mawrth Vallis and Arabia Terra* [#4052]

Rietmeijer F. J. M. \* Thiel K. (15 minutes)

*An Experimental Study of Phyllosilicate Modification in Comets During Perihelion Could be Relevant to Ferric Iron-rich Layer Silicate Formation at the Martian Surface* [#4008]

Velbel M. A. \* (15 minutes)

*Clay Minerals in Returned Samples and Alteration Conditions on Mars* [#4019]