

**Tuesday, November 11, 2008**  
**WATER, CLOUDS, AND DUST: WATER VAPOR**  
**11:40 a.m. – 12:30 p.m.**

**Chair: N. Renno**

Smith M. D. \* Wolff M. J. Clancy R. T. CRISM Science Team (**Invited, 20 minutes**)

[\*CRISM Observations of Water Vapor and Carbon Monoxide\*](#) [#9094]

One full martian year of near-infrared spectra returned by CRISM on-board MRO are used to show the seasonal and latitudinal dependence of water vapor abundance and carbon dioxide mixing ratio.

Villanueva G. L. \* Mumma M. J. Novak R. E. Hewagama T. Bonev B. P. DiSanti M. D.

[\*Mapping the D/H of Water on Mars Using High-Resolution Spectroscopy\*](#) [#9101]

We mapped H<sub>2</sub>O and HDO on Mars in March/April 2008 and March 2003 using high-resolution infrared spectroscopy with CSHELL at NASA-IRTF.

Melchiorri R. \* Drossart P. Fouchet T. Encrenaz T. Forget F. Titov D. Maltagliati L. Altieri F.

Vincedom M. Langevin Y. Bibring J.-P.

[\*OMEGA/Mars Express: South Pole Region, Water Vapor Daily Variability\*](#) [#9068]

We report on a daily variability of water vapor on the South Pole Region (SPR), observed by OMEGA/MEx during the southern spring-summer period (LS 250–270) outside the CO<sub>2</sub> ice cap. We have been able to observe an increase of few ppt- $\mu$ m during the day.

**12:30 – 2:00 p.m.**

**LUNCH**