

Thursday, November 13, 2008  
FUTURE OBSERVATIONS  
4:00 – 6:00 p.m.

Chair: J. Levine

Meyer M. \* (Invited, 20 minutes)

[NASA's Mars Exploration Program Over the Next Decade](#) [#9130]

Over the past year, the community has developed possible Mars architectures that offer exciting science return and moves us closer to returning a sample from the red planet.

Gómez-Elvira J. \* REMS Team (Invited, 20 minutes)

[Environmental Monitoring Station for Mars Science Laboratory](#) [#9052]

REMS is one of the instrument of the MSL payload, which has been designed for recording: pressure, humidity, wind speed and direction, ground and air temperature and ultraviolet radiation. A description of the instruments included on the presentation.

Jakosky B. M. \* MAVEN Science Team (Invited, 20 minutes)

[The Mars Atmosphere and Volatile Evolution \(MAVEN\) Mars Scout Mission](#) [#9036]

The MAVEN mission was selected in September 2008 to proceed forward as the next Mars Scout mission. Details of the mission will be presented, and additional information can be found at our interim project web site, at <http://lasp.colorado.edu/maven>.

Drummond R. \* Vandaele A. C. Neefs E. Mahieux A. Wilquet V. Montmessin F.

[Detecting Trace Species on Mars with a SOIR Instrument](#) [#9044]

The SOIR Instrument is currently in-orbit around Venus on the VEX satellite. We present the results of in-orbit calibration to demonstrate its capabilities. We will then show simulated Mars spectra as they would be seen by the SOIR instrument in orbit around Mars.

Smith M. D. \* MSO Science Definition Team

[Report of the Mars Science Orbiter \(MSO\) Science Definition Team](#) [#9067]

NASA is considering launch of an orbiter called the Mars Science Orbiter (MSO) in 2016 or later. NASA formed a Science Definition Team (SDT) to define the scientific objectives and measurement requirements for such a mission. The report of the MSO SDT is described here.

Hipkin V. J. \* Clancy R. T. Delory G. Fernandez-Remolar D. C. Garvin J. B. Levine J. S.

Beatty D. W. HEM-SAG Team

[Mars Human Reference Missions for Atmosphere and Climate: Report from HEM-SAG](#) [#9095]

Climate/atmosphere reference mission activities for the initial phase of Mars human exploration, developed as a result of a study by the MEPAG Human Exploration of Mars Science Analysis Group (HEM-SAG), will be presented for discussion and input from the community.

Stam D. M. \* Laan E. Snik F. Karalidi T. Keller C. ter Horst R. Navarro R. Aas C. de Vries J.

Oomen G. Hoogeveen R.

[Polarimetry of Mars with SPEX, an Innovative Spectropolarimeter](#) [#9078]

We present SPEX, an innovative, compact, and robust spectropolarimeter that measures fluxes and polarization of sunlight reflected by Mars from 400 to 800 nm. With simulations we'll show how with SPEX atmospheric dust and the surface can be studied.

6:00 p.m. MEETING ADJOURNED