

**Tuesday, March 13, 2007**  
**POSTER SESSION I: TITAN**  
**6:30 p.m. Fitness Center**

Pitman K. M. Buratti B. J. Baines K. H. West R. A. Wolff M. J.

*Probing Titan's Surface Via Atmospheric Radiative Transfer Correction Methods* [#1164]

We investigate the utility of adapting radiative transfer surface-atmospheric separation techniques developed for the Mars program to Cassini VIMS infrared spectra of Titan.

Buratti B. J. Pitman K. M. Brown R. H. Barnes J. W. Baines K. Clark R. Jaumann R.  
Nicholson P. Sotin C.

*Exploring Methods to Rule Out Surface Compositional Types on Titan Using Cassini VIMS T20 Data* [#1165]

During the Oct. 25 2006 Cassini T20 Titan flyby, VIMS observed Bohai Sinus, a dune-free area exhibiting apparent color differences between materials. Our goal is to develop methods to exclude possible non-H<sub>2</sub>O endmember candidates for this region.

Le Mouélic S. Sotin C. Rodriguez S. Tobie G. Le Corre L. Brown R. H. Barnes J. W. Buratti B.  
Soderblom L. Jaumann R. Baines K. H. Clark R. Nicholson P. D.

*Spatial and Spectral Filtering Strategies for Cassini VIMS Surface Images of Titan* [#1574]

This presentation describes several processing steps which improve the sharpness of spatial and spectral features seen in VIMS hyperspectral images. Examples on characteristic geological features of Titan (cryovolcano, crater, dunes, etc.) will be shown.

Lorenz R. D.

*Huygens at Titan: A Summary of Science Results from Engineering Measurements* [#1326]

Huygens Probe was there; felt turbulence and soft ground; small sensors tell us.

Rodriguez S. Le Mouélic S. Tobie G. Sotin C. Rannou P. Griffith C. Hirtzig M. Barnes J. W.  
Buratti B. J. Brown R. H. Nicholson P. D. Baines K. H. VIMS Team

*Following Two Years of Titan Cloud Events with Cassini/VIMS* [#1689]

We present measurements from VIMS of the occurrence and location of Titan's clouds and propose the first global mapping of Titan's clouds coverage between autumn 2004 and summer 2006.

Kirk R. L. Howington-Kraus E. Mitchell K. L. Hensley S. Stiles B. W. Cassini RADAR Team

*First Stereoscopic Radar Images of Titan* [#1427]

Overlapping Cassini RADAR images now provide stereo clues to Titan's topography. First results show 600 m relief around lakes near the north pole. The future will bring more stereopairs and the tools to make more detailed and accurate terrain models.

Campbell D. B. Black G. J. Carter L. M. Nolan M. C.

*Titan: 13 cm Arecibo Radar Observations and Comparisons with Cassini ISS and Radar Imagery* [#1538]

Arecibo 13 cm radar measurements of Titan's reflection properties are compared with Cassini ISS and radar imagery.