

**Monday, March 12, 2007**  
**TITAN**  
**2:30 p.m. Crystal Ballroom A**

**Chairs: J. M. Moore**  
**K. M. Pitman**

- 2:30 p.m. Turtle E. P. \* Perry J. McEwen A. S. West R. A. Fussner S.  
*Titan's Surface as Revealed by Cassini's Imaging Science Subsystem* [#2322]  
 We will present the latest observations of Titan's surface acquired by Cassini's Imaging Science Subsystem and discuss the interpretations and implications thereof in the context of Titan's diverse and complex geology.
- 2:45 p.m. Perry J. E. \* Turtle E. P. McEwen A. S. Dawson D. D.  
*Cassini ISS Observations of Titan: The Titan-20 Flyby* [#2219]  
 Description and mapping of part of Titan's trailing hemisphere as observed by Cassini ISS on October 25, 2006.
- 3:00 p.m. Mitchell K. L. \* Paillou P. Stiles B. W. Zebker H. Mitri G. Lunine J. I. Wall S. D. Lorenz R. D. Lopes R. M. C. Hensley S. Stofan E. R. Kirk R. L. Ostro S. J. Paganelli F. Cassini RADAR Team  
*Are Titan's Lakes Liquid-filled?* [#2081]  
 We introduce our efforts to understand the nature of Titan's polar lakes using multi-angle studies, focusing on one anomalous lake in particular, and attempt to address the issue of whether the observed lakes are liquid-filled or dry.
- 3:15 p.m. Lorenz R. D. \* Callahan P. S. Gim Y. Alberti G. Flamini E. Seu R. Picardi G. Orosei R. Zebker H. Lunine J. Hamilton G. Hensley S. Johnson W. T. K. Schaffer S. Wall S. West R. Francescetti G.  
*Titan's Shape, Radius and Landscape from Cassini Radar Altimetry* [#1329]  
 Titan: Flat, with hills; radar profiles new landscape: secrets from echoes.
- 3:30 p.m. Radebaugh J. \* Lorenz R. Lunine J. Wall S. Boubin G. Reffet E. Kirk R. Lopes R. Stofan E. Soderblom L. Allison M. Callahan P. Cassini RADAR Team  
*Dunes on Titan from Cassini Radar* [#1412]  
 Thousands of longitudinal dunes on Titan indicate global W-E winds, a sufficient supply of hydrocarbon particulate "sand," and generally dry equatorial conditions compared with wet poles.
- 3:45 p.m. Jaumann R. \* Brown R. H. Stephan K. Soderblom L. A. Sotin C. LeMouélic S. Rodriguez S. Clark R. N. Barnes J. Buratti B. J. McCord T. B. Baines K. H. Cruikshank D. P. Griffith C. A. Nicholson P. D. Wagner R.  
*Surface Erosion of Titan* [#2100]  
 During Cassini's T 20 flyby the VIMS instrument observed an extremely eroded area with resolutions better than 350 m/pixel that allows the analysis of erosional surface processes in this area in comparison with the Huygens landing site.
- 4:00 p.m. Brown R. H. \* Barnes J. W. Sotin C. Jaumann R. Soderblom L. A. Buratti B. J. Clark R. N. Baines K. H. Nicholson P. D. Lemoulic S.  
*A Large, Tectonic Complex in Titan's Southern Hemisphere — Impact Spawned?* [#2154]  
 This abstract details the observation of a large tectonic complex on Titan and the possible causal relationship between the various component geological structures.

- 4:15 p.m. Rodriguez S. \* Crapeau M. Le Mouélic S. Paillou Ph. Sotin C. Wall S. Buratti B. J. Brown R. H. Nicholson P. D. Baines K. H. VIMS Team RADAR Team  
*Cassini VIMS and Altimeter Joint Study of Titan Surface [#1679]*  
We use the Cassini/altimeter experiment to retrieve the radar reflectivity of Titan surface. Correlations with VIMS suggests a very local enrichment in water ice linked with a smooth depression, maybe hinting of ancient channels.
- 4:30 p.m. Barnes J. W. \* Radebaugh J. Brown R. H. Wall S. Soderblom L. Lunine J. Buratti B. J. Baines K. H. Sotin C. Le Mouélic S. Rodriguez S. Clark R. N. Nicholson P. D. Jaumann R. Lopes R. Mitchell K. Lorenz R. Wood C. A. Cassini RADAR Team  
*Near-Infrared Spectral Mapping of Titan's Mountains and Channels [#2028]*  
We combine observations from Cassini's Visual and Infrared Mapping Spectrometer (VIMS) and RADAR instruments to investigate the composition and nature of mountains and channels on Titan.