

Tuesday, March 20, 2018

[T302]

POSTER SESSION I: TEMPTING TITAN

6:00 p.m. Town Center Exhibit Area

Maue A. D. Burr D. M. Levy J. S. Nathan E. **POSTER LOCATION #18**
[Comminution of Titan's Icy Cobbles: Radar Brightness Trends and the Titan Tumbler](#) [#1113]

From image analysis and cryogenic roller mill experiments, we report early investigations of sedimentary trends for Titan's radar-bright fluvial features.

Le Mouélic S. Rodriguez S. Cornet T. Sotin C. Barnes J. W. et al. **POSTER LOCATION #19**
[Global Mapping of Titan with VIMS Hyperspectral Images: A Status at the End of the Cassini Mission](#) [#1889]

We describe an empirical approach to merge all the VIMS hyperspectral data acquired during the Cassini mission into global maps at 32 pixels per degrees.

Farnsworth K. McMahon Z. Laxton D. Singh S. Luspay-Kuti A. et al. **POSTER LOCATION #20**
[Experimental Investigation of Liquid Hydrocarbons on the Surface of Titan: Nitrogen Dissolution, Exsolution, and Kinetics](#) [#2709]

An experimental study of varying methane-ethane-nitrogen ternary mixtures under Titan surface conditions.

Edwards H. R. Sublett M. Bodnar R. J. **POSTER LOCATION #21**
[Simulation of Phase Behavior on Titan Using Synthetic Fluid Inclusions Combined with Raman Spectroscopy](#) [#1247]

Simulation of phase behavior on Titan based on Raman spectroscopic analyses of synthetic fluid inclusions, and a discussion of future studies.

Ugelow M. S. Trainer M. G. Wieman S. T. Stern J. C. Roach M. C. et al. **POSTER LOCATION #22**
[Stable Isotope Fractionation in Titan Aerosol Formation](#) [#2436]

During Titan photochemical aerosol analog formation, the carbon isotopic fractionation of the reactant methane and evolved ethane are enriched in ¹³C.

Corlies P. McDonald G. Hayes A. G. Adamkovics M. Horst S. M. et al. **POSTER LOCATION #23**
[On the Transmission of Titan's Atmosphere in Application to Future Missions](#) [#2596]

We report on the transmission of Titan's atmosphere as a function of altitude. We find the windows do not broaden significantly unless close to the surface.

Hartwig J. W. Meyerhofer P. Balasubramaniam R. **POSTER LOCATION #24**
 Lorenz R. D. Oleson S. R.
[1D Effervescence Modeling for the Titan Submarine](#) [#1040]

We present a robust analytical model to quantify effervescence within the cryogenic hydrocarbon seas of Titan.

Evans M. E. O'Hara W. J. **POSTER LOCATION #25**
[New Technologies for Powering a Surface Mission on Titan: Capturing Energy from Titan's Winds for Science Exploration \(CETiWiSE\)](#) [#1528]

Exploring Titan / Use only wind energy / New technologies.