Tuesday, March 18, 2014
POSTER SESSION: TITAN: RETURN TO LAKE DISTRICT
6:00 p.m.  Town Center Exhibit Area

**POSTER LOCATION #592**
*Karstic Processes on Earth and Titan* [#2371]
Earth and Titan karst / Fundamentally alike / Painful to model.

Gilliam A. E. Jurdy D. M.
**POSTER LOCATION #593**
*Titan’s Impact Craters and Associated Fluvial Features: Evidence for a Subsurface Ocean?* [#2435]
In this study, we investigate Titan’s impact craters and their associated fluvial features as possible evidence of a subsurface ocean.

Leitner M. Singh S. Chevrier V. F.
**POSTER LOCATION #594**
*Solubility and Detectability of Acetonitrile in Titan Lakes* [#2658]
Through simulation of Titan conditions, we were able to gain a better understanding of the solubility of acetonitrile within Titan lakes.

Singh S. Nna-Mvondo D. Mege D. Wagner A. Chevrier V. F. et al.
**POSTER LOCATION #595**
*Laboratory Infrared Spectroscopy of Titan Tholins in Liquid Methane and Ethane: Can Complex Organics in Titan’s Lakes be Detected?* [#2819]
We present the reactivity/solubility of Titan tholins with liquid hydrocarbons under simulated Titan conditions.

Choukroun M. Vu T. Gloesener E. Ibourichene A. Smythe W. et al.
**POSTER LOCATION #596**
*Effect of Ammonia on the Stability of Clathrate Hydrates: Experimental Study* [#2612]
We conducted experiments to investigate the influence of ammonia on the stability of clathrate hydrates and applications to Titan.

Luspay-Kuti A. Chevrier V. F. Singh S.
**POSTER LOCATION #597**
*Experimental Study of N₂ Dissolution in CH₄-C₂H₆ Mixtures Under Titan Surface Conditions* [#1897]
We present preliminary experimental results on the thermodynamics and kinetics of N₂ dissolution in liquid hydrocarbons under simulated Titan conditions.

Gainor M. Singh S. Wagner A. Chevrier V. F.
**POSTER LOCATION #598**
*Hydrocarbon Ices Under Simulated Titan Surface Conditions* [#2381]
This study presents the first experimental investigations of the infrared properties of hydrocarbon ices under simulated Titan surface conditions.

Gilliam A. E. Lerman A.
**POSTER LOCATION #599**
*Methane and Ammonia in Titan’s Primordial and Cooling Atmosphere* [#1545]
We propose a new model for Titan’s atmosphere post-accretion, and show how NH₃ and CH₄ could leave the primordial atmosphere by thermal escape as the only sink.