Tuesday, March 20, 2018 **[T203]**
TITAN IS TERRIFIC
8:30 a.m. Waterway Ballroom 5

Chairs: **Karl Mitchell**
Elizabeth Turtle

8:30 a.m. Glein C. R. * Colley M. E. Catling D. C. Toner J. D.
A New Lesson from Titan: Nitrogen Isotopes as a Possible Recorder of Prebiotic Chemistry on the Early Earth **[#2182]**
Titan's HCN / Contains heavy nitrogen / RNA world too?

8:45 a.m. Cable M. L. * Vu T. H. Maynard-Casely H. E. Choukroun M. Hodyss R.
Molecular Minerals on Titan: The Acetylene Series **[#2717]**
Acetylene appears to form co-crystals with many species in Titan conditions. These molecular minerals represent a new and exciting class of compounds on Titan.

9:00 a.m. Czaplinski E. * Farnsworth K. Gilbertson W. Chevrier V.
Experimental Studies of Ethylene and Benzene Evaporites on Titan **[#1480]**
Ethylene, benzene / Titan's lakes evaporate / The hydrocarbons!

9:15 a.m. Hedgepeth J. E. * Neish C. D. Turtle E. P. Stiles B. W.
Impact Craters on Titan: Finalizing Titan's Crater Population **[#2105]**
We are creating a complete catalog of all the craters on Titan and characterize their morphology (depth and diameter) using Cassini RADAR, ISS, and SARTopo data.

9:30 a.m. Birch S. P. D. * Hayes A. G. Hofgartner J. D.
The Raised Rims of Titan's Small Lakes **[#2076]**
We present a study on the observability and distribution of elevated rims that surround Titan's small polar lakes using high resolution topographic data.

9:45 a.m. Farnsworth K. * Soderblom J. M. Cornet T. Rodriguez S. Chevrier V.
Cassini VIMS Spectral Comparison of Three Brightening Events on Titan's Surface **[#2739]**
This study investigates Cassini VIMS spectra of three bright units from the 2009 equatorial storm: Adiri, Yalaing, and Hetpet.

10:00 a.m. Panning M. P. * Hurford T. A. Schmerr N. C. Stähler S. C. Vance S. D. et al.
Estimation of Seismic Activity on Titan from Tidal Cracking **[#1662]**
We estimate the seismic activity on Titan due to tidal cracking using a Gutenberg-Richter relationship and scaling from the moon using tidal dissipation energy.

10:15 a.m. Schurmeier L. R. * Dombard A. J. Radebaugh J. Malaska M.
Intrusive and Extrusive Cryovolcanism and the Composition of Titan's Icy Crust **[#2934]**
Methane clathrate can't / Hold radial labyrinths / Ice lithosphere can.

10:30 a.m. Dhingra R. D. * Barnes J. W. Brown R. H. Buratti B. J. Sotin C. et al.
Temporal Survey of Rain Events at Titan's North Pole as Revealed by the "Wet-Sidewalk Effect" **[#1262]**
We carry a temporal survey of rain events detection on Titan's north pole using "wet-sidewalk effect."

10:45 a.m. Kelland J. * Corlies P. Hayes A. G. Rodriguez S. Turtle E. P.
Analyzing the Dynamic and Morphological Characteristics of Clouds on Titan Using the Cassini VIMS **[#2836]**
We analyze VIMS image cubes in order to develop a cloud observation database while exploring dynamic and morphological characteristics of clouds on Titan.

11:00 a.m. Nichols-Fleming F. * Corlies P. Hayes A. G. Adamkovics M.
Tracking Short-Term Variations in Titan's Haze Distribution **[#2283]**
We present an analysis of the haze distribution on Titan using frequent observations with SINFONI. Preliminary results show significant short-term variations.

11:15 a.m. Lombardo N. A. * Nixon C. A. Achterberg R. K. Jolly A. Sung K. et al.
C_3H_X Hydrocarbon Abundance in Titan's Atmosphere from Cassini Infrared Spectra **[#2376]**
These first measured profiles of propylene in Titan's atmosphere show that the abundance of the gas differs from photochemical model predictions.

11:30 a.m. Corlies P. * Hayes A. G. Adamkovics M.
Topographic Influencing of Clouds on Titan **[#2280]**
We present an analysis of clouds in the Cassini dataset, influenced by topography, and compared against model simulations.