Tuesday, March 21, 2017 **[T307]**
POSTER SESSION I: PLANETARY CRYOSPHERES AND POLAR PROCESSES IV: MODELS, ALGORITHMS, LABORATORY, AND ANALOGS
6:00 p.m. Town Center Exhibit Area

Schmerr N. C. Garnero E. Hurford T. Lekic V. Panning M. et al. ***POSTER LOCATION #83***
Short Aperture Seismic Arrays on Icy Satellites **[#1254]**
We present the advantages and capabilities of a short aperture seismic array for investigating the icy and ocean interiors of the outer satellites.

Hood D. R. Karunatillake S. ***POSTER LOCATION #84***
Semi-Automated Measurement of Boulder Clustering in the Martian Northern Plains **[#2640]**
Boulder sorting and clustering in the martian northern latitudes is assessed using automatic boulder detection software applied to HiRISE images.

Christoffersen M. S. Holt J. W. Kempf S. D. ***POSTER LOCATION #85***
A Generalized Clutter Simulation Software for the Analysis of Airborne and Spaceborne Radar Sounding Data **[#1791]**
The creation of a generalized surface clutter simulator will lead to enhanced mission planning and improved analysis of radar sounding datasets.

Nagori R. Dagar A. Arya A. S. ***POSTER LOCATION #86***
Automatic Extraction and Temporal Monitoring of Area Under Snow/Ice in North Polar Caps of Mars Using Mars Color Camera Onboard Mars Orbiter Mission **[#1964]**
Area covered under snow/ice in north polar caps of Mars has been estimated and temporally compared near summer solstice using images from Mars Colour Camera.

Johnson J. R. Phillips-Lander C. M. Elwood Madden M. E. ***POSTER LOCATION #87***
Measuring Methane Clathrate Dissociation at Low Temperature and Pressure with Raman Spectroscopy **[#2257]**
When methane clathrate dissociates at 213 K, large cages dissociate faster than small cages, leaving signs of previous clathrate.

Munsat T. Kempf S. Postberg F. Ulibarri Z. ***POSTER LOCATION #88***
Laboratory Measurements of Hypervelocity Micrometeoroid Impacts into Frozen Water and Arginine Targets **[#2777]**
We present laboratory data (mass spectra) from hypervelocity dust particles impacting frozen water + arginine targets.

Hiesinger H. Jungheim V. Reiss D. Hauber E. Johnsson A. ***POSTER LOCATION #89***
Sorted Stone Circles on Svalbard: A Mars Analog? **[#1164]**
We performed a multi-year study of sorted stone circles on Svalbard. We compare our findings with those for martian stone circles and discuss their origin.

Rampe E. B. Horgan B. Scudder N. Smith R. J. Rutledge A. M. ***POSTER LOCATION #90***
Mineralogy of Rock Flour in Glaciated Volcanic Terrains: An Analog for a Cold and Icy Early Mars **[#2437]**
XRD patterns of rock flour from glaciated volcanic terrains show few alteration phases and amorphous materials are concentrated in the < 2 μm size fraction.

Koutnik M. R. Pathare A. V. Waddington E. D.
Todd C. E. Christian J. E. ***POSTER LOCATION #91***
Applications of Ice-Flow Models to Mars **[#2188]**
We review ice-flow models applied to Mars and present our new modeling with aim to better constrain the evolution of LDAs based on current surface topography.