Tuesday, March 21, 2017 **[T320]**
POSTER SESSION I: MAGNETIZATION AND WEATHERING OF THE LUNAR SURFACE
6:00 p.m. Town Center Exhibit Area

Hood L. L. Oliveira J. S. Kim H. R. von Frese R. ***POSTER LOCATION #313***
A Newly Mapped Magnetic Anomaly in the Imbrium Basin and Its Paleomagnetic Pole Position **[#2217]**
A newly mapped magnetic anomaly within the Imbrium Basin has been modeled to estimate the paleomagnetic pole when Imbrium formed (~ 3.9 b.y. ago).

Arkani-Hamed J. Boutin D. ***POSTER LOCATION #314***
South Pole Aitken Basin Magnetic Anomalies: Evidence for the True Polar Wander of Moon and a Lunar Dynamo Reversal **[#2011]**
Modeling the magnetic anomalies of South Pole-Aitken Basin suggests true polar wander of ~100 degree of the Moon and a core dynamo reversal.

Cournede C. Garrick-Bethell I. Coe R. Perrera V. Weiss B. P. et al. ***POSTER LOCATION #315***
Insights into Early Lunar Paleomagnetism from the Ancient Norite 78235 **[#2648]**
The paleomagnetic investigation of an old lunar sample (78235) might bring new insights into lunar dynamo lifetime.

Kamenikova T. Kletetschka G. ***POSTER LOCATION #316***
Unusual Spectra of Magnetic Paleointensities of Two Breccia Samples from the Moon **[#2017]**
Abstract describes a method of research made in lunar magnetism domain and results given by paleomagnetic measurements of two lunar samples imported by Apollo 15.

Deca J. Divin A. Lue C. Wang X. Horányi M. ***POSTER LOCATION #317***
Fully Kinetic Simulations of the Solar Wind Interaction with Lunar Magnetic Anomalies: Reiner Gamma and Swirl Formation **[#2012]**
Kinetic simulations including an observations-based lunar B-field model provide strong evidence that solar wind standoff has formed the Reiner Gamma swirls.

Jozwiak L. M. Blewett D. T. Denevi B. W. ***POSTER LOCATION #318***
Geomophologic Analysis of Lunar Swirls: Assessment of Formation Mechanisms **[#1244]**
We use LROC-NAC images to study the Reiner Gamma swirl, observing exposures of both high- and low-reflectance material and overall swirl reflectance structure.

Karimova R. Kramer G. Y. Harnett E. M. ***POSTER LOCATION #319***
Correlating Swirls with Particle Tracking Simulations at Lunar Magnetic Anomalies in South Pole-Aitken Basin and Mare Crisium **[#1090]**
We mapped swirls and correlated them with particle tracking simulations at magnetic anomalies to test the solar wind shielding hypothesis of swirl formation.

Lee J.-K. Ghassemi O. Baek S.-M. Maxwell R. E.
Garrick-Bethell I. et al. ***POSTER LOCATION #320***
A Very Small Lunar Magnetic Anomaly: New High Resolution Magnetic Field Measurements and Spectral Properties **[#1799]**
We use calibrated, previously unreleased 9 Hz LP data to investigate a very small swirl feature (1.0°S, 298.6°E) as the octopus.

Fatemi S. Poppe A. R. Fuqua-Haviland H. Delory G. T. ***POSTER LOCATION #321***
A Plasma-Induction Model to Study the Electromagnetic Response of the Moon's Interior to a Magnetic Transient Signal **[#1758]**
We have developed a 3D kinetic plasma model that self consistently couples electromagnetic interior response of an object to its plasma environment.

Li X. Y. Tang H. Wang S. J. Jin H. Wei G. F. et al. ***POSTER LOCATION #322***
Charging of Olivine Grains in Low Energy Electron Radiation **[#1353]**
The maximum charged quantity is ~10^6e and the adhesive force is several to tens fNs for micron olivine grains charged in low energy electron radiation.

Zhang X. Li Y. Xu A. ***POSTER LOCATION #323***
A New Insight into the Production of Cosmogenic Nuclides on the Moon with Geant4 Simulation **[#1369]**
A self-consistent model to simulate cosmogenic nuclides production and substantial contributions of pion-nucleus reactions to cosmogenic nuclides production.

Trappitsch R. Leya I. ***POSTER LOCATION #324***
A New Model for Deriving the Solar Cosmic Ray Spectrum from Lunar Rock Measurements **[#1699]**
We present a new model to determine SCR induced cosmogenic nuclides in lunar rocks. This model, for the first time, considers the actual irradiation scenario.

Yang Y. Z. Milliken R. E. Zhang H. Jiang T. ***POSTER LOCATION #325***
Phase Reddening of Pure Minerals with Different Albedo **[#2240]**
We carried out multiangular biconical refelctance measurements on minerals with different albedos to test the albdeo dependence of phase reddening effects.

Corley L. M. Gillis-Davis J. J. Lucey P. G. Trang D. ***POSTER LOCATION #326***
The Effect of Temperature on the Reflectance Spectra of Pyroxene and a Highlands Analog Weathered by Laser Irradiation **[#1698]**
We compare the reflectance and submicroscopic iron produced for minerals weathered by laser irradiation at room temperature and temperatures comparable to PSRs.

Shirley K. A. Glotch T. D. Yang Y. Jiang T. Zhang H. ***POSTER LOCATION #327***
Synthetic Space Weathering Effects in the Near- and Mid-Infrared **[#2115]**
Space weathering does / Affect the mid-infrared / On airless bodies.