Thursday, March 22, 2018

POSTER SESSION II: INSTRUMENT AND PAYLOAD CONCEPTS III: RADAR, SEISMOLOGY, GRAVIMETRY, AND XRD

6:00 p.m. Town Center Exhibit Area

Xiao Y. Su Y. Feng J. Q. Dai S. Xing S. G. et al. POSTER LOCATION #361
Performance Evaluation of Lunar Regolith Penetrating Radar Onboard the Lander of Chang’e-5 Based on Results of Ground Experiments and Simulations [#1778]
This study focuses on performance evaluation of the Lunar Regolith Penetrating Radar onboard Chang’e-5 lander, based on ground experiments and simulations.

Feng J. Su Y. Dai S. Xing S. Xiao Y. et al. POSTER LOCATION #362
New Imaging Algorithms Developed for Chang’e-4 Lunar Penetrating Radar [#2180]
A introduction to the proposed imaging algorithms for the second channel of Chang’e-4 lunar penetrating radar.

Su Y. Li C. L. Feng J. Q. Dai S. Xiao Y. et al. POSTER LOCATION #363
Radar Payloads Onboard Chinese Lunar and Martian Probes [#1984]
This abstract introduces the radar payloads onboard Chinese lunar and martian probes.

Xing S. G. Su Y. Dai S. Feng J. Q. Xiao Y. et al. POSTER LOCATION #364
Key Issues in China 2020 Mars Orbital Subsurface Sounding Radar Scheme [#1881]
This article discusses China 2020 Mars Orbital Subsurface Sounding Radar scheme and presents three key issues facing the radar.

Osinski G. R. Baylis A. Barnard I. Allen P. Caves R. et al. POSTER LOCATION #365
Rationale and Concept for a Synthetic Aperture Radar and Sub-Surface Ice Sounder for Mars [#1961]
In this contribution we report on a Canadian Space Agency-funded study for a Synthetic Aperture Radar and sub-surface ice sounder for a future Mars orbiter.

Feng L. Deng C. Li Y. Li M. Muller J.-P. POSTER LOCATION #366
Radar Polar Region Research on Earth, Venus, Saturn, Jupiter, and Their Moons [#1715]
This study focuses on DTMs generation, DTM co-registration for rover landing, ionospheric tomography, 3D tomographic SAR imaging in polar ICE region of planets.

Christoph J. M. Williams D. A. POSTER LOCATION #367
The Science Case for Spaceborne Radar Observations at Io [#2868]
Subsurface features / May be revealed by future / Radar at Io.

Kedar S. Chui T. C. Paik H. J. Stone K. J. Moody M. V. et al. POSTER LOCATION #368
A Planetary Broad Band Seismometer (PBBS) for the Lunar Geophysical Network and Ocean Worlds [#1485]

Palomba E. Dirri F. Longobardo A. Biondi D. Boccaccini A. et al. POSTER LOCATION #369
VISTA Instrument: A Miniaturized Thermogravimeter Concept for Volatiles and Dust Characterization in Planetary Environments [#2835]
This work is based on VISTA, a μ-Thermogravimeter device based on PCM technology. VISTA concept, applications, and measurements are explained in detail.

Sarrazin P. C. Blake D. F. Gailhanou M. Chen J. Dera P. et al. POSTER LOCATION #370
New Development in X-Ray Diffraction for Planetary Exploration [#2554]
This presentation covers the main R&D efforts at NASA ARC toward future planetary X-ray diffraction instruments.