

Thursday, March 22, 2018

[R622]

**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. P. 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]
Report on the technology advancement of an ultra-sensitive Planetary Broad Band Seismometer for the Lunar Geophysical Network concept and for Ocean Worlds.
- 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.