

Tuesday, November 14, 2017
VENUS MISSION AND INSTRUMENT STUDIES
1:00 p.m.

- 1:00 p.m. Fukuhara T. * Taguchi M. Imamura T. Kouyama T. Nakamura M. Sato T. M. Suzuki M. Iwagami N.
[Current Status of Observation by the Longwave Infrared Camera \(LIR\) on Board Akatsuki Spacecraft](#) [#8045]
Current status of observation by the Longwave Infrared Camera (LIR) on board Akatsuki spacecraft is reported. We advance the study by using the abundant LIR images, and various large stationary gravity waves have been identified in LIR images.
- 1:15 p.m. Smrekar S. E. * Dyar M. D. Hensley S. Helbert J. Sotin C. Mazarico E. VOX Team
[Venus Origins Explorer \(VOX\), a Proposed New Frontier Mission](#) [#8031]
VOX's new methods provide global mineralogy, high-resolution topography and radar imaging plus surface deformation. VOX exceeds New Frontiers science objectives from orbit, with essential surface reconnaissance and *in-situ* noble gas measurements.
- 1:30 p.m. Hensley S. * Smrekar S. Dyar M. D. Perkovic D. Campbell B. Younis M.
[Venus Interferometric Synthetic Aperture Radar \(VISAR\) for the Venus Origins Explorer](#) [#8020]
One of the three primary science instruments for the proposed Venus Origins Explorer (VOX) mission to the NASA New Frontiers Program is an X-band radar interferometer described in this talk.
- 1:45 p.m. Kremic T. * Hunter G. Rock J.
[LLISSE: A Long Duration Venus Surface Probe](#) [#8035]
The Long Lived *In-situ* Solar System Explorer (LLISSE) project is developing prototypes of small Venus landers that are designed to transmit important science data from the Venus surface for > 60 days. The briefing provides a summary of the project .
- 2:00 p.m. Sauder J. * Hilgemann E. Stack K. Kawata J. Parness A. Johnson M.
[An Automaton Rover for Extreme Environments: Rethinking an Approach to Surface Mobility](#) [#8028]
An Automaton Rover for Extreme Environments (AREE) enables long duration *in-situ* mobility on the surface of Venus through a simplified design and robust mechanisms. The goal is to design a rover capable of operating for months on the surface of Venus.
- 2:15 p.m. Cutts J. A. *
[Venus Aerial Platform Study](#) [#8015]
A Venus Aerial Platform Study, which was underway in early 2017, is assessing the science and technologies for exploring Venus with aerial vehicles in order to develop a Venus Aerial Platform Roadmap for the future exploration of the planet.
- 2:30 p.m. *Coffee Break*
- 3:00 p.m. Open Microphone and Poster Preview Presentations