

Tuesday, March 20, 2018

[T339]

POSTER SESSION I:

PLANETARY MISSION AND INSTRUMENT CONCEPTS: VENUS

6:00 p.m. Town Center Exhibit Area

Widemann T. Marcq E. Tsang C. Mueller N. Kappel D. et al. **POSTER LOCATION #610**
[*The Venus Emissivity Mapper — Investigating the Atmospheric Structure and Dynamics of Venus' Polar Region*](#) [#2386]

Making sense of exoplanet observations requires better understanding and monitoring of terrestrial atmospheres in our solar system, especially Venus.

Bairstow B. K. Lee Y. H. Austin A. **POSTER LOCATION #611**
[*Radioisotope Power for In-Situ Venus Mission Concepts*](#) [#1245]

Discussion of power options on Venus, and notional science goals, desired measurements, and required instruments for *in-situ*, long-life Venus explorers.

Kremic T. Hunter G. Rock J. Neudeck P. Spry D. et al. **POSTER LOCATION #612**
[*Long-Life In-Situ Solar System Explorer \(LLISSE\) Probe Development*](#) [#2796]

LLISSE is a project to develop two small long-duration prototype probes to collect chemical specie abundance, temperature, pressure, winds, and radiance over time.

Balcerski J. A. Hunter G. W. Colozza A. J. Zborowski M. G. Makel D. B. **POSTER LOCATION #613**
[*A Low-Mass Atmospheric Sensor Platform Concept for Distributed Exploration at Venus*](#) [#2038]

Ultralight atmospheric probes with high surface area are efficient to use for Venus distributed sensing. I'm a leaf on the wind. Watch how I soar.

Ghail R. C. Wilson C. F. Widemann T. **POSTER LOCATION #614**
[*EnVision M5 Venus Orbiter Proposal: Complementary Science Opportunities*](#) [#1937]

We encourage the science community to consider complementary payloads and/or science operations for the proposed ESA M5 EnVision to Venus.

Senske D. Zasova L. Burdanov A. Economou T. Eismont N. et al. **POSTER LOCATION #615**
[*Development of the Venera-D Mission Concept, from Science Objectives to Mission Architecture*](#) [#1243]

The development of the Venera-D concept is ongoing, focusing on science goals and mission architecture.

Clegg S. M. Dyar M. D. Newell R. T. Peterson C. G. **POSTER LOCATION #616**
 DeCroix D. S. et al.
[*Venus Elemental and Mineralogical Camera \(VEMCam\)*](#) [#2676]

VEMCam can make thousands of chemical and mineralogical measurements and provide an unprecedented description of the Venus surface.

Pabari J. P. Acharyya K. Haider S. A. Bhardwaj A. Kumar D. et al. **POSTER LOCATION #617**
[*Lightning Instrument for Future Venus Orbiter*](#) [#1391]

To better understand lightning on Venus, a Lightning Instrument for VEnus (LIVE) is proposed for future Venus orbiter and its prototype results are presented.

Krishnamoorthy S. Komjathy A. Cutts J. A. Pauken M. T. **POSTER LOCATION #618**
 Martrire L. et al.
[*Seismic Infrasond as a Geophysical Probe for Venus*](#) [#1369]

Venus is difficult to perform seismology on because of high surface temperature and pressure. We discuss how to perform seismology from a floating balloon.