

Venus Newsletter #12 - July 2020

1) AGU Venus Sessions: Abstracts Due Wednesday July 29!

P032 Preparing for the Next Venus Missions

DI012 Planets and Moons: Learning from Spacecraft Observations, Simulations and In-Situ Data

2) AGU Special Session Exoplanets In our Backyard 1.5

3) Venera-D 2019 Workshop Report

4) Call for VEXAG 2020 Annual Meeting Abstracts

1) AGU Venus Sessions: Abstracts Due Wednesday July 29!

AGU Venus Session: P032 Abstracts Due Wednesday July 29!

P032 ? Preparing for the Next Venus Missions

Several mature Venus mission concepts are under review within the US and around the world that address the most fundamental questions about the evolution of Earth-sized planets in our solar system and beyond. What science is needed to prepare for these missions? What fundamental or applied analyses will help us maximize a new mission's science return? We solicit papers that detail new science that supports our anticipated exploration of Venus using spectroscopy, radar and in situ assets within the atmosphere and on the ground. This includes, but is not limited to, laboratory and theoretical investigations of Venus analogue materials of all phases, observations of Earth phenomena with specific relevance to Venus, modeling of Venus environments, landing site characterization, and Venus-relevant exoplanet observations.

DI012 - Planets and Moons: Learning from Spacecraft Observations, Simulations and In-Situ Data

Spacecraft or surface observations have been returned from multiple solar system bodies, including the Moon (Apollo), Mars (InSight), and dwarf planets (Dawn). Observations provide key information on their internal composition and structure, and inform planetary formation and evolution models. Currently, space agencies around the world are planning ambitious missions to further explore the interiors of the Moon, Mercury, Venus and the Ocean Worlds of the Solar System (e.g., Europa, Enceladus and Titan). Seismological and thermal data, and magnetic and geodetic measurements all help to constrain the thickness and structure of a planet's (ice or rock) crust and mantle, the size and state of their cores, the planet's thermal state, its tectonics, and rate of meteoroid impacts. We invite contributions that use observations from surface geophysical data, orbital observations or returned sample analyses, and that seek to develop internal structural models to understand these planets' early history.

2) AGU special session Exoplanets In our Backyard 1.5

Details will be forthcoming about this special one-day session of invited talks linking solar system science (including, crucially, Venus) and exoplanetary science.

3) The Venera-D 2019 Workshop Report (with the cloud habitability) will be on the VEXAG website in the next couple days. The website links will also be re-organized to make documents like the GOI and other Venus Strategic Documents more accessible.

<https://www.lpi.usra.edu/vexag/>

4) Call for VEXAG 2020 Annual Meeting Abstracts

Call for Abstracts - 18th Meeting of the Venus Exploration Analysis Group (VEXAG)
November 16-18, 2020

Venus Exploration Analysis Group (VEXAG) Meeting #18 will be held virtually November 16-18, 2020.

Call for Abstracts <https://www.hou.usra.edu/meeting_portal/abstract_submission/?mtg=647>

Abstract submission deadline: September 1, 2020, 5:00 p.m. U.S. Central Daylight Time

Registration <https://www.hou.usra.edu/meeting_portal/registration/?mtg=vexag2020>
Registration deadline: November 2, 2020

<http://www.lpi.usra.edu/vexag/meetings/vexag-18/>

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