## **Abstract Details**

## <u>AOGS 1st Annual Meeting</u> > <u>Planetary Science</u> > Vesper is a proposed Discovery Mission to with an atmospheric Probe and Orbiter >

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## **Abstract:**

The recently commissioned National Research Counciles Decadal Re New Frontiers in the Solar System: An Integrated Exploration Strate offers NASA a new exploration paradigm that emphasizes the uniquer our home world in the context of the Past, Present, and Future of the planets such as Venus and Mars. Vesper will closely follow this strateg will answer key Decadal Report questions focused on the Past, Preser Future of Venus by taking in situ probe and unique remote sensing or measurements of Earth&s nearest neighbor & The Vesper Orbiter wil transport the Probe to the vicinity of Venus o The Probe will enter the atmosphere and descend through the cloud deck into the lower tropo collecting data throughout the descent for approximately 45-60 minu The possibility exists that the Probe will continue to transmit data for time from the surface of the planet. o The Orbiter will fly over the Pro entry site providing supporting science observations and acting as a c relay link � The Vesper Orbiter is later placed into an elliptical polar c around Venus o The Orbiter provides science observations at all Venu latitudes, longitudes and local times o The Orbiter mission duration is Venus years (896 Earth Days)

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