POSTER SESSION I: PLANETARY MISSION CONCEPTS: VENUS, EUROPA, JUPITER, ENCELADUS, TITAN
6:00 p.m. Town Center Exhibit Area

With its advanced radars and IR/UV instruments, EnVision will detect and measure activity on Venus. Here we outline our plans for ESA’s next call.

The VISAR instrument is a single pass X-band radar interferometer that is part of the VERITAS proposed Discovery mission to Venus.

DAVINCI will study the composition of Venus' atmosphere at a level of detail not possible on earlier missions and will image the surface at optical wavelengths.

Amato M. Generie J. Glaze L. Robinson D. Mahaffy P. et al. The Davinci Probe Descent Module and Engineering Development Unit Testing [2566]
The Davinci Venus mission in situ probe design and probe descent sphere engineering test unit build and test work is discussed.

The Biosignature Explorer for Europa (BEE) Plume Probe is designed to collect and analyze samples for life evidence as a potential part of the Europa mission.

The goal, objectives, instruments, and unified science traceability of NASA’s Europa mission are summarized.

We will report on the science community-based proposition of a possible ESA contribution to NASA’s Europa mission as a candidate for the upcoming ESA M5 mission.

James P. B. Geophysical Constraints on Europa’s Ice Shell and Rocky Core from a Flyby Mission [2513]
Line-of-sight residuals from a flyby mission will offer a way to study Europa’s ice shell structure and sea floor, even when coverage is not fully global.

The Mini-MAGGIE satellite mission will accompany the future Europa mission to aid the primary satellite in measuring gravity and magnetic fields.
Iwata T. Matsuura S. Tsumura K. Yano H. Hirai T. et al. POSTER LOCATION #253
A Study of Cruising-Phase Sciences Using the Solar Power Sail [#2000]
We present the scientific objectives and instruments in the cruising-phase of the Solar Power Sail, a Japanese candidate deep-space probe.

THEO Mission Concept: Testing the Habitability of Enceladus’ Ocean [#1277]
Fly to Saturn moon / Is ocean habitable? / THEO could find out.

Ross F. Lee G. Polidan R. Sen B. Sokol D. POSTER LOCATION #255
Titan Lifting Entry and Atmospheric Flight (T-LEAF) System Concept for Exploration of Saturn’s Moon Titan [#2453]
Both entry vehicle and maneuverable atmospheric rover, T-LEAF (Titan Lifting Entry and Atmospheric Flight) performs both surface and atmospheric science at Titan.