Meeting the Challenge of Measuring Io’s Lava Eruption Temperatures

We show how to overcome the difficulties of measuring lava eruption temperatures on Io with a novel detector and digital focal plane combination.

CubeSats to Support Future Io Exploration

This presentation discusses mission concepts and instruments using the CubeSat platform to support future exploration of Jupiter’s volcanic moon Io.

Synthetic Aperture Radar Instrument Concept for Subsurface Geological Observations of Io

We propose a Synthetic Aperture Radar instrument for a future mission to Io with the goal of revealing geologic features obscured by bright plains deposits.

Joint Europa Mission (JEM). A Multiscale Study of Europa to Characterize its Habitability and Search for Extant Life

Here we present the Joint Europa Mission (JEM), a proposal submitted to the ESA M5 call last October 2016 and is now under study.

The Europa Multiple-Flyby Mission: Synergistic Science to Investigate Habitability

Europa mission / Synergistic science delves / Habitable world.

Seismology or Europa and the Solar System’s Ocean Worlds

We discuss potential seismological exploration of Europa and other ocean worlds, and how they shed light on habitability in these environments.

Enceladus Habitability: Cassini Groundwork and New Possibilities

The Enceladus Life Finder (ELF) builds on Cassini’s successes, and would bring the compelling life question within reach of the New Frontiers Program.

Dynamic Pressure at Enceladus’ Vents and Implications for Vent and Conduit In-Situ Studies

Enceladus vents / Sampling robots will fight through / Supersonic winds.

Oceanus: A New Frontiers Orbiter to Study Titan’s Potential Habitability

Following up on the discoveries of the Cassini mission, a Titan orbiter equipped with a focused payload would address the NF science goals.
Wilson C. F. Lorenz R. D. POSTER LOCATION #233

**Design of a Thermal Anemometer for a Titan Lander** [#1859]
We present a hot-film anemometer design for a Titan lander, based on heritage from Beagle 2 and ExoMars Schiaparelli wind sensors.


**Dragonfly: Exploring Titan’s Prebiotic Organic Chemistry and Habitability** [#1958]
Titan quadcopter / Samples complex organics / How does life begin?

Bramson A. M. Elder C. M. Blum L. W. Chilton H. T. Chopra A. et al. POSTER LOCATION #235

**OCEANUS: A Uranus Orbiter Concept Study from the 2016 NASA/JPL Planetary Science Summer School** [#1583]
Power systems and appropriate launch vehicles present the main challenges to launching a New Frontiers-class ice giant orbiter before 2040.