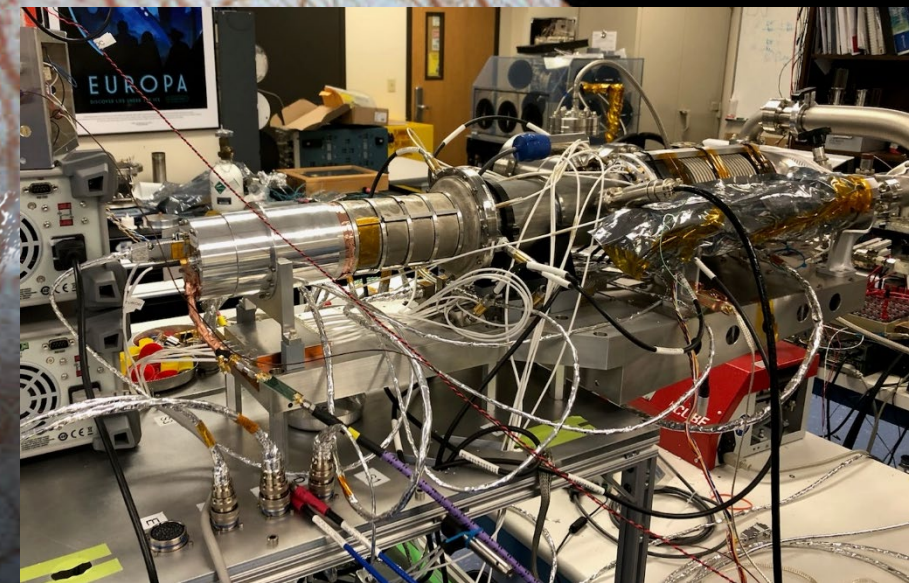
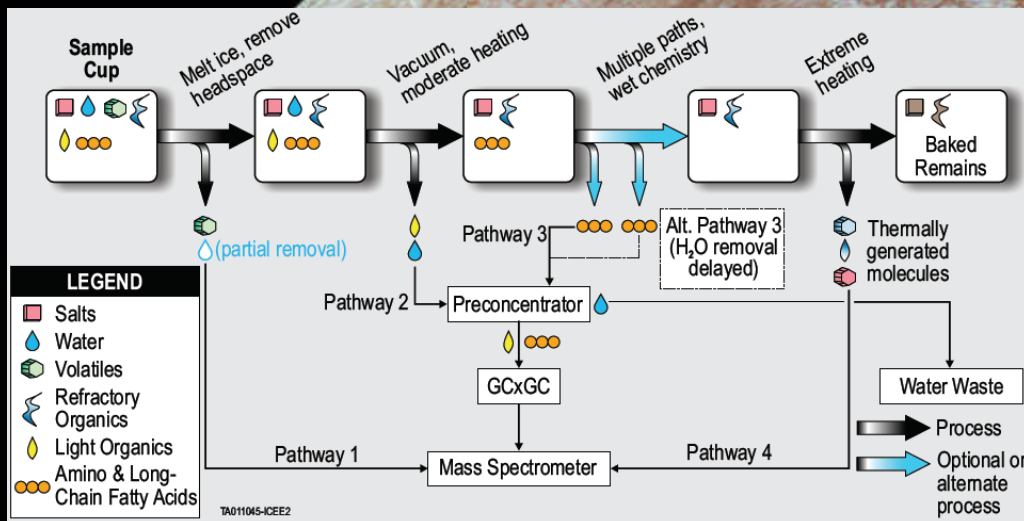


MASS Spectrometer for Planetary EXploration-ORganic Composition Analyzer (MASPEX-ORCA) for Europa Lander



Ryan Blase, Mark Libardoni, Kelly Miller, J. Hunter Waite, Chris Glein, Greg Miller, Kate Craft, Chris Bradburne, Korine Ohiri, Tessa VonVolkenburg, Mark Perry, John Harshman, Katsuo Kurabayashi, Xudong Fan, Hongbo Zhu, Anandram Venkatasubramanian, Abhishek Ghosh, Peter Wurz, Rico Fausch.



A versatile instrument from four institutions to meet the challenging requirements of the Organic Composition Analyzer for Europa Lander.

- Sample Handling/Preparation, Microfluidics, Chemistry Wet Lab – Johns Hopkins University Applied Physics Laboratory (APL)
- High Resolution mass spectrometer, MASPEX – Southwest Research Institute (PI Institution for ICEE-2 grant)
- MEMS Multidimensional Gas Chromatograph (GC-GC) – University of Michigan
- Neutral Gas Mass Spectrometer (NGMS) – University of Bern

The instrument can be adapted to other landed mission targets: Enceladus, Pluto, Titan, Triton