

The Southwest Research Institute (SwRI) has flown a number of plasma analysers for NASA planetary missions, including Juno, Cassini, Mars and Venus Express to name a few. For this event, we will showcase in particular, the SwRI Electrostatic Probe (EsP), a modified version of the Electron Spectrometer (ELS) recently flown at Venus (ESA, Venus Express) [Barabash et al., 2007] and currently flying at Mars (ESA, Mars Express) [Barabash et al, 2004, 2006]. The instrument has been modified to detect both electrons and ions and to fit into a 1U CubeSat form-factor, making it very attractive for CubeSat as well as mainstream missions. Besides hardware, posters at the booth will also showcase/discuss planned enhancements to the EsP as well as heritage instruments from past missions with a particular focus on miniaturized technologies suitable for small satellite missions.