

Wednesday, October 26, 2016
GEOPHYSICAL INSTRUMENTS AND TECHNIQUES
1:30 p.m. International West

Chair: Diana Blaney

- 1:30 p.m. Verdier N. * Lognonné P. Banerdt W. B. De Raucourt S. Ijpelaar F. Jerjean L. Pont G. Sylvestre-Baron A. Laudet P. Bousquet P. Hohhman T. Umland J. Bone B. Hurst K. Giardini D. Zweifel P. Bramanti C. Pike W. T. Calcutt S. Mimoun D. Bierwirth M. Christensen U.
[SEIS Experiment for the INSIGHT Mission: Towards 2018 Launch](#) [#4046]
 After giving an outline of the InSight mission, with a focus on SEIS activities on Mars, we will describe the SEIS instrument and its performances, and provide a status of its development at the time of the workshop.
- 1:45 p.m. Palomba E. * Dirri F. Longobardo A. Galiano A. Biondi D. Boccaccini A. Zampetti E. Saggin B. Scaccabarozzi D.
[VISTA: A Miniaturized Thermogravimeter to Detect Planetary Dust and Volatiles](#) [#4010]
 The work here presented is focused on VISTA instrument: a μ -thermogravimeter device, which has been studied and proposed for different planetary in-situ missions. The main scientific goals of VISTA and laboratory tests are described.
- 2:00 p.m. Stillman D. E. * Oden C. Grimm R. E. Pyke B.
[Broadband Ground Penetrating Radar with Conformal Antennas for Subsurface Image from a Rover](#) [#4011]
 Thin conformal broadband antennas allow a GPR instrument (200–1000 MHz) to be mounted to the underside of a rover. Providing 10's of meters of subsurface imaging through regolith and rock.
- 2:15 p.m. Cutts J. * Pauken M. Jackson J. Mimoun D. Bowman D.
[Venus Exploration with Infrasound Techniques](#) [#4107]
 We are developing a technique for detecting seismic events and other naturally occurring phenomena on Venus using infrasound from a balloon platform that floats in the upper atmosphere.
- 2:30 p.m. Pauken M. * Smith K. Sujittosakul S. Li B. Firdosy S. Smrekar S. Morgan P.
[Venus Heat Flow Instrument Development](#) [#4101]
 A heat flux measurement instrument is being developed to determine the heat flow through the Venus surface. Heat flow measurement provides data for distinguishing between various hypotheses of planetary evolution.
- 2:45 p.m. *Coffee Break*