Geophysical Research Abstracts Vol. 12, EGU2010-8881, 2010 EGU General Assembly 2010 © Author(s) 2010



## Scientific Payload of the MMPM mission

Ari-Matti Harri (1) and the Mars MetNet Team

(1) Finnish Meteorological Institute, Earth Observation Research, Helsinki, Finland (harri.haukka@fmi.fi), (2) Space Research Institute, Moscow, Russia, (3) Lavochkin Association, Moscow, Russia, (4) Institutio Nacional de Tecnica Aerospacial, Madrid, Spain

The MetNet Mars Mission focused for the Martian atmospheric science is being currently developed. The MetNet Mars Precursor Mission (MMPM) is the test project for the deployment of a larger network of small meteorological stations onto the surface of Mars. The development is done in collaboration between the Finnish Meteorological Institute (FMI), the Russian Lavoshkin Association (LA), the Russian Space Research Institute (IKI) and the Spanish National Institute for Aerospace Technology (INTA).

The purpose of MMPM is to confirm the concept of deployment for the mini-meteorological stations onto the Martian surface, to get atmospheric data during the descent phase, and to get information about the meteorology and surface structure at the landing site from the meteorological station during one Martian year or longer.

The meteostation contains sensors for pressure, humidity, temperature and solar radiation measurements as well as for seismic and magnetic field observations. Details of the payload, its characteristics and its capabilities are presented in the poster.