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**Abstract**

**Lunar Reconnaissance Orbiter: Instrument Suite and Objectives**

**Richard R. Vondrak, John W. Keller, and the LRO Team**

NASA Goddard Space Flight Center

The Lunar Reconnaissance Orbiter (LRO) is the first mission under NASA's Vision for Space Exploration, a plan to return to the moon and eventually to Mars. LRO will launch late this year to conduct the exploration phase of the mission under NASA's Exploration Mission Directorate. The exploration phase will last one year, after which the mission will be transferred to NASA's Science Mission Directorate for the science phase. LRO will employ six individual instruments to produce accurate maps and high-resolution images of future landing sites, to assess potential lunar resources, and to characterize the radiation environment. LRO will also test the feasibility of one advanced technology demonstration package. This presentation will give an introduction to each of these instruments and an overview of their objectives.