

**ORNL SPACE REACTOR POWER PROGRAM OVERVIEW\***

A. L. Qualls  
Oak Ridge National Laboratory, PO Box 2008, MS-6074  
Oak Ridge, Tennessee 37831-6074  
quallsal@ornl.gov

The President's Vision for Space Exploration has regenerated interest in nuclear space power technology including surface power applications for extended manned missions to the moon and to Mars. This presentation will provide a general overview of the design challenges related to nuclear surface power applications and summaries of the proposed technologies and methodologies to address them.

---

\* This work was performed by the Oak Ridge National Laboratory for the U.S. Department of Energy (DOE) in support of the National Aeronautics and Space Administration (NASA). ORNL is managed for DOE by UT-Battelle, LLC, under contract DE-AC-05-00OR22725.