

**Mo-99 2015 TOPICAL MEETING ON  
MOLYBDENUM-99 TECHNOLOGICAL DEVELOPMENT**

**AUGUST 31-SEPTEMBER 3, 2015  
HILTON BOSTON BACK BAY  
BOSTON, MASSACHUSETTS**

**Plans for Developing the U.S. Department of Energy's Enriched  
Stable Isotope Production Facility**

J.P Grimm  
Office of Science  
U.S. Department of Energy  
1000 Independence Ave. SW, Washington DC 20855 – USA

**ABSTRACT**

Enriched molybdenum isotopes may play an important role in the future supply chain of Tc-99m radiopharmaceuticals. The U.S. Department of Energy is developing a new domestic capability to provide enriched stable isotopes. The Enriched Stable Isotope Pilot Facility (ESIPF), located at Oak Ridge National Laboratory, will include a modest gas centrifuge cascade and one electromagnetic separator. The objective is to provide small quantities of high priority enriched isotopes for research and applications, and also replenish DOE's Isotope Program inventory. This will allow the Isotope Program to support ongoing research and commercial applications requiring only milligram-to gram-size quantities of enriched isotopes. The development work is planned to be complete in FY 2016. During 2017 and 2018, DOE plans to conduct isotope production runs to provide modest new inventories for sale. Operating experience will be assessed to strategize for expanded production capacity in the future.