

Abstract Submitted  
for the APR10 Meeting of  
The American Physical Society

**Progress in Nuclear Detection** RICHARD VOJTECH, US Department of Homeland Security - Domestic Nuclear Detection Office — The Transformational and Applied Research Directorate (TAR) was established within the Department of Homeland Security's Domestic Nuclear Detection Office (DNDO) to conduct, support, coordinate, and encourage near- and long-term Research and Development (R&D) programs for break-through technologies designed to dramatically improve capabilities to detect and report illicit trafficking of nuclear and radiological materials. These programs cover a wide range of technologies and high-level technical challenges associated with the DNDO mission and the Global Nuclear Detection Architecture (GNDA). They encompass a range of technology levels, ranging from feasibility and proof of concept studies to technology demonstrations of systems. Even though the focus is on high level challenges, the direction of some topic areas can change from year to year. This presentation will provide an overview of the TAR mission and discuss the current status of transformational R&D efforts in three major program areas: Advanced Technology Demonstrations (ATD), Exploratory Research (ER) and Academic Research Initiative (ARI).

Richard Vojtech  
US Department of Homeland Security - Domestic Nuclear Detection Office

Date submitted: 28 Oct 2009

Electronic form version 1.4