OPTICAL SPECTROSCOPIC TECHNIQUES FOR ARMY APPLICATIONS

KEVIN L. McNESBY, R. R. SKAGGS, R. G. DANIEL and A. W. MIZIOLEK, *U. S. Army Research Laboratory, Aberdeen Proving Ground MD*.

Applications of optical spectroscopy to Army needs are discussed. These applications include tunable diode laser-based sensing of hazardous gases, explosives characterization using Raman spectroscopy and using laser induced breakdown spectroscopy, chemical/biological agent detection using infrared spectroscopy, and spectral characterization of non-thermal plasmas.