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Shane D. Boone, Ph.D. is a research and development associate at the Oak Ridge National Lab (ORNL) where his primary focus is vibrational data acquisition and analysis. Shane was born in Johnson City, TN and moved to Knoxville in 1998 to attend the University of Tennessee, Knoxville (UTK). While at the UTK, Shane was elected as the Engineering Fundamentals freshman of the year, was awarded scholastic scholarships, and was a member of the Lambda Chi Alpha Fraternity all while obtaining his Bachelor's and Master's degrees in Civil Engineering. Shane went to work for the Y12 National Security Complex (NSC) in 2002 where he worked as a structural engineer until 2005 when he moved to Utah to attend Utah State University (USU) where he obtained his Ph.D. in structural engineering with a focus in nondestructive testing in 2008. While at USU, Shane was awarded the Utah Department of Transportation (UDOT) graduate student of the year award. Since that time, Shane has worked at both the Y12 NSC and ORNL as a physical testing engineer and researcher. Shane has been published in journals and conferences such as the American Society of Civil Engineers, International Symposium on Signals and Electronics, and the Transportation Research Board. In research, Dr. Boone has worked on a multitude of studies focusing on the nondestructive testing of concrete and other structural materials and is currently focusing on the vibrational effects of the drive train components of the United States Marine Corps' Light Armored Vehicle.