Harry T. Shamansky, Ph.D., P.E.
Director of Research
Analytic Designs, Incorporated

Ph.D.	Electrical Engineering	The Ohio State University	1991
M.S.E.E.	Electrical Engineering	The Ohio State University	1987
B.S.E.E.	Electrical Engineering	The Ohio State University	1984

Experience: Dr. Shamansky has spent in excess of 30 years in the area of electrical engineering and computer science. During the last decade, Dr. Shamansky has served the U.S. Government (DoD, DoE, NSA, others) as the director of the Software Protection Center, protecting U.S. electronic assets. Dr. Shamansky holds security clearances with the U.S. Government at a variety of levels, and is entrusted with U.S. analysis and planning for electronic security. Dr. Shamansky is a world recognized expert in physical, electronic and computer security, as has been asked to provide his expertise to numerous groups throughout the U.S. Pentagon, U.S. Department of Energy, and many other agencies. He has authored countless articles and reports for the U.S. Government on a wide range of technical and policy matters involving security issues.

Before that, over fourteen years, he was involved with a wide range of electromagnetics, from theoretical to experimental. As author of more than a dozen published papers in these areas, including collaboration in the 4th Edition of *Electromagnetics*, Dr. Shamansky has remained active in both research and development as well as the practical application of electromagnetics to Air Force problems. He has been active in Low Observables design, and advanced signature modeling techniques for the Air Force Research Laboratories.

Dr. Shamansky has served as an expert witness across the U.S., serving in a wide range of cases, from local municipalities to cases featured on the television program *60 Minutes*. Dr. Shamansky has served the Columbus Alarm advisory board for many years, for nearly a decade.

Relevant Unclassified Publications and Reports:

"Scattering from Three-Dimensional Cracks,"A. Dominek, H. Shamansky, N. Wang, The ElectroScience Laboratory, The Ohio State University, IEEE Transactions Special Issue on Radar Scattering of Complex Targets.

"Test Bodies for Scattering Measurements," A. Dominek and H. Shamansky, The ElectroScience Laboratory, The Ohio State University, IEEE Antennas and Propagation Society Press Book, **Radar Cross Sections of Complex Objects**, pp. 93-100.

"A High Frequency Ray Analysis of the Electromagnetic Backscattering by a Two-Dimensional Ogive," H. Shamansky, A. Dominek, N. Wang, The ElectroScience Laboratory, The Ohio State University, Radio Science volume 27, number 6, Nov.–Dec. 1992, pp. 991-997.

"A Physical Basis Formulation for the Electromagnetic Backscattering by a Finite Length Rectangular Trough in a Ground Plane," H. Shamansky, A. Dominek, N. Wang, The ElectroScience Laboratory, The Ohio State University, IEEE Antennas and Propagation Society, April 1993, number 4, pp. 397-402.

"Final Report for Pilot Measurements," H. Shamansky, A. Dominek, Analytic Designs, Incorporated, Report No. 0008-07-WLCT-1, delivered to Mr. Jeff Hughes, WL/AACT, July, 1997.