

Alfred L. Broz, PhD

Professional Biography

Education: Physics; BS, MS, PhD (University of Notre Dame).

Career: 40+ years in NDT.

US Army, Aberdeen Proving Ground, Maryland

Involved in conventional NDT (visual, magnetic particle, penetrant, ultrasonic, eddy current, radiography) applications for characterizing Army material/materiel.

Researched, developed and implemented improved conventional NDT techniques and many nonconventional techniques (magnetic recording bore-scope, radiographic, real-time radiography, and flash radiography techniques to characterize ballistic items, and events from low to very high energy.)

US Army, Watertown Arsenal, Massachusetts

Manager of materials characterization with 50+ professional and technical employees.

Activities included: Management of US Army NDT Mantech Research Program; Management of Army Material Command characterization of existing and developing materials; Further developed training and certification programs for Army NDT personnel-training 1,000+ annually with 3,000 certified; Managed the ASTM "Charpy" program; Developed physical and NDE techniques for characterization of existing and developing materials; Served as the contracting officer's technical representative for the NTIAC; Provided guidance for the DOD NDT Standards and Specifications Program, eliminating obsolete standards and revising existing ones.

Federal Aviation Administration, Washington D.C.

Chief Scientific and Technical Advisor for Nondestructive Evaluation. Served as principal facilitator between the aviation industry and the FAA: Responsible for NDT technical advice within the FAA, including principal technical advice for NDT research programs with annual budgets of \$4-\$10M; Represented the FAA as principal scientist involved in NDT as well as principal facilitator with US agencies: NTSB, Navy, Air Force, Army, etc.; Government representative on NDT issues with US airlines, and aviation equipment manufacturers as well as foreign airlines; Initiator and principal author of NDT course for FAA Aviation Safety Inspectors- (one of the most popular courses at the FAA's Oklahoma City, OK facility.); Initiator and principal author of NDT course for FAA's Designated Engineering Representatives; Lead FAA for nondestructive activities with SAE, ASNT, ASTM, ATA, Airlines for America.

Professional Societies: Sigma Xi, Laser Institute of America, ASTM, ASNT (former Director), SAE, ASM, AAAS.