



**Lynch & Associates, Inc.**

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**Principal:** Dr. Richard F. Lynch

**Degrees:** PhD & MS in Metallurgy and Materials Science, BS in Metallurgical Engineering, Lehigh University. His PhD dissertation focused on the processing, structure and properties of low carbon steel while his Master's thesis involved research on wrought aluminum alloys.

**Specialties:** Metallurgical/materials forensic investigations, failure analysis, and test interpretation for the legal profession. Effective court testimony. Diverse background in failure analysis, materials testing, corrosion analysis, material properties, equipment and device failure, end product manufacture, metallurgical processing, fabrication, casting, surface treatments, metallurgical process licensing, international metals research and market research. Failure evaluation of equipment, fabricated products, structural materials, large utility pipes, plumbing components, medical equipment & devices, fasteners, etc. Steel, stainless steel, galvanized steel, aluminum, brass, zinc, polymer, and composite evaluations.

**Experience:** He has 45 years of professional experience in the metallurgy and materials fields. Dr. Lynch has conducted hundreds of forensic failure analyses on a wide range of materials including ferrous and nonferrous metals, polymers, composite materials, ceramics, other non-metallic materials, and coatings for corrosion protection. Materials/Metallurgical forensic investigations including both fracture analysis and corrosion. He is experienced in the use and interpretation of results from stereo microscope, optical metallurgical microscope, SEM (Scanning Electron Microscope), EDS (Electron Dispersive Spectroscopy) and conventional means of chemical analysis, micro hardness and hardness determination, metallography, FTIR Infra-red analysis, mechanical testing (tensile, impact, fatigue, etc.) and other common material laboratory methods. He has expertise in writing & interpreting standards & specifications for materials and products and has over 65 technical publications and is a US patent holder. He provides effective court testimony.

**Professional Societies:** Dr. Lynch is active in ASTM International where he has served as Chairman of Committee B02 on Nonferrous Metals and Alloys, Vice Chairmen of Committee A05 on Metallic-Coated Iron & Steel Products, member of B07 on Aluminum, and on Society level committees. He is active at the local chapter and national levels with ASM International, the Materials Information Society. He received the ASTM International Award of Merit. He is a Fellow of ASTM International and a Fellow of ASM International.  
US patent holder.