

Dr. Richard F. Lynch
Lynch & Associates, Inc.

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Education: Dr. Richard F. Lynch holds PhD & MS degrees in Metallurgy and Materials Science, and a BS in Metallurgical Engineering from Lehigh University.

Overview: Dr. Lynch has over 35 years of varied experience in metallurgical/materials forensic investigations, specification and test interpretation for the legal profession, and failure and corrosion analysis. In addition to a formal university materials education including research on aluminum (MS) and steel (PhD), he serves as an expert witness/consultant on steel, nonferrous metals, and non-metallic materials. Effective court testimony. Experienced in writing and interpreting standards and specifications for materials and products and determining if materials meet specification requirements. Consultant on fabricated products, structural materials, medical implants, material properties, in-plant investigations, fracture, weld failures, etc. Steel, stainless steel, galvanized steel, zinc, titanium, aluminum, brass and polymer/composite expert. Extensive background in nonferrous products and steel including metal fabrication, manufacture, fabrication, and performance.

Specialties: Metallurgical/materials forensic investigations, corrosion and failure analysis. Accident materials analysis experience. Expert on ferrous and non-ferrous metals, polymers, composites, and other non-metallic materials, bare and painted metal surfaces, and corrosion prevention. Consultant on material properties and selection of fabricated products, equipment/devices, fasteners, structural materials, etc.

Client Base: Includes attorneys and companies requiring specification interpretation, failure analysis, metallurgical testing, accident materials evaluation, corrosion analysis, material property evaluation, and assistance with: device failure, end product manufacture, metallurgical processing, fabrication, surface treatments, metallurgical process licensing, international metals research and market research.

Professional Societies: Dr. Lynch is active in ASTM Committee A05 on Metallic-Coated Iron and Steel Products where he has served as User Vice Chairmen and as Chairman of Committee B02 on Nonferrous Metals and Alloys. He received the ASTM Award of Merit and is an ASTM Fellow. He is active at the local chapter and national levels with ASM International, the Materials Information Society and is an ASM Fellow. He has authored and/or presented over 60 technical papers on the properties and uses of galvanized steel, cast and wrought non-ferrous and ferrous products, pretreatments for painting metallic surfaces, product development, and ASTM standards. US patent holder.