



DENNIS R TURRIFF
SENIOR ENGINEER
PRODUCT AND PROPERTY GROUPS

PhD, Mechanical Engineering, Specializing in
Materials Science, 2007
BASC, Mechanical Engineering, 2002

Dr. Turriff combines his background in materials science and mechanical engineering to conduct failure analyses of metallic and non-metallic components and machines. His expertise includes numerous analytical techniques: metallography, fractography, spectroscopy/diffraction, thermal analysis, and stress/load analysis among others.

Example projects consist of determining root and contributing causes of automotive component and joint failures, water escape from metallic/plastic plumbing and fire protection system components, material degradation via corrosion and other environmentally assisted mechanisms, and testing/modeling of products in service to isolate failure conditions.

Areas of Specialization

- Metallurgical/microstructural analysis
- Material/mechanical failures
- Automotive manufacturing and failures
- Materials processing and phase transformations (welding/soldering/brazing, heat treating, powder metallurgy)

Professional Affiliations

MEA staff are members of various professional organizations. A current listing can be found on our website www.meaforensic.com.

Select Publications

Turriff DM, Corbin SF, and Kozdras M (2010), Diffusional Solidification Phenomena in Clad Aluminum Automotive Braze Sheet, Acta Materialia, Vol. 58 (4), pp.1332-1341.

Turriff DM, Corbin SF, Cranswick LMD and Watson M (2008), In situ neutron diffraction analysis of TLP sintered Ni-Cu powder mixtures. International Journal of Powder Metallurgy, Vol. 44 (6), pp. 49-59.

Turriff DM and Corbin SF (2008), Quantitative thermal analysis of transient liquid phase sintered Cu Ni powders. Metallurgical and Materials Transactions A, Vol. 39A (1), pp. 28-38.

Turriff DM and Corbin SF (2006), Modelling the influences of solid-state interdiffusion and dissolution on transient liquid phase sintering kinetics in binary isomorphous systems. Metallurgical and Materials Transactions, Vol. 37A (5), pp. 1645-55.

Contact: dennis.turriff@meaforensic.com