



MATTHEW CALVELEY

**Associate
(Metallurgist)**

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**Nationality
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British
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Matthew Calveley graduated in 2008 with a BEng (Hons) degree in forensic engineering and a MSc Corrosion Control Engineering (University of Manchester). In addition to material science/metallurgy his degree focused on aspects of law, including the role of an expert witness and business/manufacturing matters, such as quality procedures. During his time at university, Matthew gained experience operating electron microscopes which he now uses as an investigative tool.

After university he worked for a marine engineering and testing unit, providing metallurgical consultation and carrying out marine and industrial-based failure investigations. Matthew has experience of destructive and non-destructive testing techniques and the qualification of weld procedures. Prior to joining Brookes Bell, Matthew worked as a process metallurgist for a multi-national company supplying nickel-based corrosion-resistant alloys for oil and gas. Matthew has a good working knowledge of laboratory operations and quality procedures.

Matthew has carried out numerous investigations on-site and in the laboratory, and has produced expert witness reports for the purpose of litigation.

Academic Qualifications:

BEng (Hons) Forensic Engineering Upper Second Class Degree classification (Sheffield Hallam University)

MSc Corrosion Control Engineering (University of Manchester)

Membership of Professional Bodies:

Member of the Welding Institute
Member of the Institute of Metals, Minerals and Mining
Member of National Association of Corrosion Engineers (NACE)

Courses/Conferences Attended:

Developments in Rolling Bearing Fatigue
Marine Structural Failures
Oilfield Metallurgy
Hull Inspection, Damage and Repair
Corrosion Fatigue Developments
4th International Conference on Thermal Mechanical Processing of Steels

Metallurgy Employment:

2015 - to present	Associate at Brookes Bell
2010 - 2015	Metallurgist at Brookes Bell
2009 - 2010	Premier Hytemp Ltd (Murray Metals)
2008 - 2009	Atlantic Engineering Ltd
2006 - 2007	Materials, Engineering and Research Institute (MERI)

Nature of Work Recently Undertaken:

-) Advice on corrosion prevention/protection.
-) Advice on corrosion of ships' structure.
-) Advice on the safe storage of corrosive substances, including sulphuric acid and phosphoric acid.
-) Attendance at shipyard in the Asia Pacific region to investigate welding procedures used in the construction of new-builds.
-) Bearing failures including examination of slewing bearings and roller elements.
-) Examination of cargo tanks and holds to ascertain nature of corrosion damage.
-) Failure of main engine bearing journals and evaluation of recent repair/re-metalling process.
-) Fatigue failure of main engine components, determining cause.
-) Hydrogen embrittlement of main engine crankshaft.
-) Industrial-based failure/corrosion investigations. High temperature corrosion.
-) Investigation of crane failures including failure of wire ropes.
-) Investigating corrosion of fuel tanks.
-) Steel products – alleged seawater damage.