

Materials Technology Ltd.

Unit 5, Rushington Court, Chapel Lane,
Totton, Hampshire SO40 9NA

Tel: +44 (0)23 80580240

Fax: +44 (0)23 80661758

e-mail: info@mtechltd.co.uk

Web: www.mtechltd.co.uk

Curriculum Vitae DEREK ROY BATES

Name: Eur.Ing. Derek Roy Bates Eur.Ing. C.Eng. M.I.M., M.Weld. I.
M.I.Corr S & T., FRSA

Address: Unit 5 Rushington Court,
Southampton, Hants SO40 9NA

Nationality: British

Position: Director (Materials Technology Ltd.)

Qualifications: European Engineer,
Chartered Engineer
Member of Institute of Metallurgy and Materials
Member of Welding Institute
Member of Institute of Corrosion and Science
Fellow of the Royal Society of Arts

CAREER PROFILE

1960 - 1964 Deloro Stellite Ltd., Assistant Head of Research

1964 - 1968 British Oxygen, Sydney Australia, Research
Department Head, Foundry Manager

1968 - 1970 Esso, Melbourne, Australia, Metallurgist and Corrosion
Engineer

1970 - 1979 Esso Chemical Ltd., Fawley, U.K. Senior Engineer,
Petrochemical Plant.

1979 - Present Director - Materials Technology Ltd.

The role of Materials Technology Ltd includes:

Investigation of failures in marine and other industries, selection of materials, corrosion studies, inspection, quality control, welding engineering, NDT, R.&D. Quality assurance to assist companies to achieve ISO 9000 certification, chemical engineering, acting as expert witness.

Background covers virtually all industries including marine, civil engineering, defence, oil, gas, petrochemicals, , automotive, leisure, fashion, medical, defence, telecommunications.

TECHNICAL EXPERIENCE

Derek Bates, has been widely involved in materials selection, failure investigation and avoidance, corrosion control, coatings and painting, specification writing, supervision, welding engineering, non-destructive testing, inspection, quality assurance and quality control . He acts for legal and insurance clients as an Expert Witness in these and related matters.

He has also had wide experience in research & development of new materials and equipment including, alloys for casting and forging, analysis of paints, oils, fuels, metals and plastics, corrosion engineering, metallurgy, materials selection, wear, oxidation, fibre-reinforced composites, ceramics, glasses, plastics, inspection and non-destructive testing. He is experienced in welding technology and the development of welding electrodes and consumables.

He has lectured to engineers throughout industry on programmes organised by the Department of Trade & Industry. He has also lectured to professional bodies such as the Plastics & Rubber Institute, The Institute of Corrosion and to engineering and professional organisations.

EXAMPLES OF PAPERS OR ARTICLES PRESENTED:

- Hardness, An Unreliable Guide to Wear Resistance.
- Linings & Coatings in the Petrochemical Industry.
- Preferential Corrosion of Welds.
- Corrosion Under Insulation.
- Materials Selection.
- Learning by Failure Investigation.
- New Materials - D.T.I. Materials Matter Programme.
- Repair & Refurbishment of Bulk Liquid Storage Tanks.

Recent Cases

- Investigate mechanism causing explosion of pipeline
- Corrosion in boiler of Petrochemical plant
- Failures of hospital bed structures.
- Collapse of aluminium ladders
- Fracture of a lifting davit on oil tanker.
- Pad eye failure on racing yacht.
- Collapse of rigging on racing yacht.
- Refractory lining in furnace
- Pumps and valves in manufacturing plant.
- Plastics Processing Machinery – inadequate performance.
- Personal injury resulting from explosion of portable gas cannister.
- Fire in storage tank farm.
- Corrosion of steelwork in new building
- Personal injury from fracture of plate glass window
- Failure of resin lining in scrubber – attend court in New York
- Passing off case at Old Bailey involving metal cabinets
- Fatal road traffic accident for police and coroner
- Personal injury involving failure of wheel brace on Mercedes.
- Rivet gun causing blindness
- Polythene rotocast fuel tanks failure in yachts.
- Civil engineering claim - resin lining in concrete tanks
- Explosion in control room of oil tanker at sea.
- Police Forces. - Investigate accidents to (1) trailer (2) Vehicle turning over, (3) Failure of axle on motor car. (4) accident involving motor cycle and car.