Brookes Bell

Marine, Scientific and Technical Consultants and Surveyors

Dr. TIM MOSS

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Tim Moss has an honours degree in Biochemistry, an MSc in Toxicology and a PhD in Environmental and Occupational Medicine. Previously Study Director of a major agricultural chemical company, he joined Brookes Bell in 2000, became an Associate in 2003 and a Partner in 2006.

His area of scientific and surveying expertise concerns deterioration during carriage and storage of a variety of commodities; grain, oilseeds, bagged products such as rice and coffee, processed products such as soya bean meal, liquid cargoes such as edible oils, minerals, chemicals and refrigerated goods.

He has specific expertise in the contamination of cargoes and the environment with potentially toxic substances, such as fuels, diesel, solvents and chemicals. He can also advise on the problems associated with tainting of cargo. He has given advice concerning the safe carriage and packaging of chemicals.

He has working experience and expertise in the processes involved with malting, brewing and distilling.

His work also includes investigations of damage caused by micro-organisms such as fungus, bacteria and mould. He also has experience in fumigation and insect infestation of sensitive cargoes.

He has attended on board ships to conduct investigations into the cause and extent of deterioration or damage. He has also provided technical advice based on documentary evidence in cases involving deterioration of, and damage to, commodities on board ships and in warehouses.

He has experience in a range of analytical techniques in Chemistry, Microbiology and Biochemistry, such as Spectrophotometry, High Performance Liquid Chromatography, Thin Layer Chromatography, Nuclear Magnetic Resonance, Gas Chromatography, Mass Spectrometry, etc.

He also has experience in Molecular Biology, and can advise on the properties and detection of genetically modified (GM) crops.

Tim has acted as an expert witness in several hearings.

Academic Qualifications

1991 BSc (Hons) in Biochemistry, University of Sheffield. Subjects studied included Molecular Biology, Physical, Organic and Inorganic Chemistry, Microbiology, Physiology and Genetics.

1992 MSc in Toxicology, University of Birmingham. Studies included investigating toxicity of chemicals, solvents, pesticides, herbicides, pharmaceuticals, cosmetics and pollutants.

1997 PhD in the metabolism of xenobiotics during absorption through human skin.

Publications

1996 Moss T, Howes D, Blain PG & Williams FMW (1996) Characteristics of Sulphotransferases in Human Skin. In "Prediction of Percutaneous Penetration" ed. KR Brain, VJ James and KA Walters, Vol. 4b, pp.307-311.

2000 Moss T, Howes D and Williams FMW (2000) "Percutaneous Penetration and Dermal Metabolism of Triclosan (2,4,4'-trichloro-2'-hydroxydiphenyl ether)" Food and Chemical Toxicology 38 pp.361-370.

Membership of Professional Bodies

Member of the British Toxicology Society.
Member of the UK Drug and Pesticide Metabolism Group.
Member of the International Society for Horticultural Science.
Member of the Institute of Food Science and Technology.

Consultancy Employment

2006-present Partner, Brookes Bell.

2003-2006 Associate, Brookes Bell.

2000-2003 Scientist, Brookes Bell.

Previous Scientific Career

1998-2000 Study Director in Toxicokinetics, Agrevo and Aventis, Saffron Walden.

1993-1997 Unilever, Sharnbrook and Newcastle-upon-Tyne Medical School – Research Assistant/Studentship.

1991 Technician in Brewery laboratory.

Particular Scientific Expertise and Experience

Damage to the following commodities:

Bagged products - rice, sugar, coffee, cocoa beans.
Chemicals such as pesticides, herbicides, pharmaceuticals and solvents.
Derived agricultural products - seed cake such as soya bean meal, corn gluten meal and other expeller and extractor meals.
Edible and mineral oils.
Grain - maize (corn), wheat, barley, sorghum, malt (particularly in brewing and distilling).
Refrigerated fruit - oranges, kiwifruit.
Whole oilseeds - soya beans.

Safe carriage and storage of the above commodities.
Contamination of edibles by toxic substances such as chemicals, solvents, fuel oils and diesel.
Environmental damage by chemicals and solvents.
Management of toxin exposure to humans and animals.
Growth of micro-organisms such as moulds, fungus and bacteria.
Insect infestation and fumigation of cargoes.
Detection of genetically modified (GM) foodstuffs.
Sampling.