



## DR TIM MOSS

**Partner  
(Consulting Scientist)**

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**Nationality  
Mobile**

British  
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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 expertise concerns the investigation of spoilage, damage, infestation and 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 attended hundreds of vessels, warehouses, storage facilities and silos worldwide during these investigations.

He has specific expertise in the contamination of cargoes and the environment with potentially toxic substances, such as fuels, diesel, solvents and chemicals, and has investigated many high-profile food and feed contamination cases. He can also advise on the problems associated with tainting of food and feed cargoes. He has working experience and expertise in the processes involved with malting, brewing and distilling.

Tim's background in chemical safety means he has practical experience with a variety of hazardous materials and is able to advise on carriage and packaging (where appropriate) of a variety of hazardous materials whether in bulk or packaged.

He has experience in, and can advise on, 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 also attended on vessels loading various group A cargoes (those liable to liquefy).

Tim has acted as an expert witness in several hearings in UK High Court, in the Magistrate's Court, in arbitrations worldwide, including LMAA, FOSFA and GAFTA, and in mediations.

### 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. Involved modeling human skin behavior *in vitro*, various analytical chemistry techniques, cell culture, immunohistochemistry, protein electrophoresis and development of bespoke metabolic analysis protocols.

### 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

**Specific Expertise**

<b>Damage to commodities</b>	<b>Safe carriage and storage of commodities</b>
Bagged products – rice, sugar, coffee, cocoa beans	Contamination of edibles by toxic substances such as chemicals, solvents, fuel oils and diesel
Chemicals such as pesticides, herbicides, pharmaceuticals and solvents	Environmental damage by chemicals and solvents; chemical identification of pollutants
Agricultural products – seed cake such as soya bean meal, corn gluten meal and other hazardous feed meals	Management of toxin exposure to humans and animals
Edible and mineral oils	Growth of micro-organisms such as moulds, fungus and bacteria
Grain – maize (corn), wheat, barley, sorghum, malt (particularly in brewing and distilling)	Insect infestation and fumigation of cargoes
Refrigerated fruit – oranges, kiwifruit	Detection of genetically modified (GM) foodstuffs
Whole oilseeds – soya beans	Sampling