

**Dr. NICHOLAS PAUL CROUCH**

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(Scientist)**                      Brookes Bell LLP  
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**Date of Birth**                      23rd May 1964  
**Nationality**                        British  
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Nicholas Crouch has a D.Phil. in Chemistry, obtained at St. John's College, University of Oxford, and was formerly a Fellow of Oriel College and is a member of Congregation of the University of Oxford. During his employment at Oxford he was involved as an expert witness in several multi-billion dollar patent lawsuits in the USA. He joined Brookes Bell in 1999 as a scientific consultant and became a partner in 2004.

His main area of expertise lies in the field of chemicals as well as in agricultural commodities. He has provided extensive advice to members in the marine shipping community on the safe carriage of chemical and agricultural commodities. Additionally, he has conducted major investigations overseas into incidences of cargo damage arising from transportation and from inherent vice. He has conducted documentary investigations in connection with legal work. From his academic and research career he has a comprehensive understanding and 'hands-on' experience of modern analytical techniques and procedures.

His interests are concerned with the carriage of chemicals, agricultural products such as grain, seed cake, vegetable oils, fruit and vegetables, fertilisers, minerals, metal ores and products derived from them. He also has a keen interest in fire investigations relating to chemicals as well as various other cargoes.

Dr. Crouch has acted in numerous arbitrations and mediations concerning marine cargo claims both in the UK and abroad, such as the USA, Hong Kong and Turkey.

**Academic Qualifications**

B.Sc. (Hons) in Chemistry, King's College, University of London.  
M.A. University of Oxford.  
D.Phil. in Organic Chemistry, St. John's College, University of Oxford.

**Membership of Professional Bodies**

Member of the Royal Society of Chemistry (CChem MRSC).  
Member of American Society of Agricultural Engineers (Mem.ASAE).

**Surveying and Consultancy Employment**

2004-present Partner, Brookes Bell.

2002-2004 Associate, Brookes Bell.

1999-2002 Staff Scientist, Brookes Bell.

**Academic and Research Employment**

1995-1996 Royal Society of Chemistry JWT Jones Travelling Fellowship and sabbatical leave at the Institute de Recherche en Biologie Végétale, Université de Montréal, Canada.

1989-1995 Expert witness for Glaxo-Wellcome "Zantac", Bristol Myers Squibb "Cephadroxil", and Tanabe "Diltiazem" patent disputes and other similar cases.

1988-1998 Departmental Research Assistant at Dyson Perrins Laboratory, Oxford, with Prof. Sir Jack Baldwin.  
Junior Research Fellowship at Wolfson College, Oxford.  
Lecturer in Organic Chemistry at Oriel College and Lady Margaret Hall, Oxford.  
Tutorial Fellow at Oriel College, Oxford.  
Undergraduate and Post-graduate teaching, University of Oxford.

**Scientific Publications**

Published over thirty-seven scientific papers in Chemistry/Biochemistry.

**Particular Scientific and Consultancy Experience**

He has appeared as an expert witness in various pharmaceutical patent disputes in the USA and Germany. This has involved arbitration testimony, both as an expert and a witness of fact at the US International Trade Centre and various depositions and appearances in US Federal Courts.

**Subject Areas:**

**chemicals**, including fine chemicals, acids and bases, fats and oils etc.

**chemical & cargo fire investigation**, in seedcakes, coal, maize, wheat bran, malt barley, etc.,

**coal cargoes**, including self-heating and fires,

**infestation problems**,

**fertilisers**, including urea, NPK, ammonium nitrate, diammonium phosphate, monoammonium phosphate potash, etc.,

**minerals**, including Gabbro aggregates, nickel laterites

**cement and cement clinker**

**metal ores and metal ore concentrates**, including nickel, copper, lead, titanium dioxide and zinc concentrates

**sulphur**, including sulphur corrosion cases and alleged damage to sulphur cargoes,

**fruit**, including bananas, melons, apples, pineapples, plumcots, and grapes,

**grain**, including wheat, maize, soy bean, and rice

**cotton**

**oil bearing seeds** such as sunflower seeds, soy bean, oil seed rape and other pulses,

**seed cakes**, including soybean meal, rapeseed meal, wheat bran pellets (pollard pellets) and palm kernel expellers,

**animal feed-stuffs**, such as wheat bran pellets, sorghum, soya bean meal and alfalfa,

**Small selection of surveys:**

Copper ore concentrates (Bulgaria),

Coal contamination to titanium slag (France)

Coal self-heating, fire and water damage

Wet sulphur corrosion (China),

Wheat contamination to ammonium nitrate (UK),

Water damage to cargo of urea (UK),

Damage to wheat bran pellets (Tunisia),

Damage to cargo of soya beans (China),

Rust scale contamination of soya bean meal (Japan),

Insect infestation to cargo of wheat (Syria),

Water damage to maize (Syria),

Fumigant explosion (Abu Dhabi),

Ergot contamination of wheat (Iraq),

Urea contamination of wheat (Iraq),

Fire in maize and wheat bran (Argentina),

Fire in maize (Senegal),

Nickel laterite cargoes (Indonesia & Philippines),

Water damage to apples, grapes, plumcots, apricots, plums & nectarines (UK),

Hydrocarbon contamination of cocoa butter (UK & USA),

Water damage to maize (Jordan),

Water damage to rice (Egypt),

Loading dispute concerning maize grade (China),

Fungicide contamination to soybeans (China),

Fire in palm kernel expellers (Malaysia),

Damage to cargo of bananas (Turkey),

Fire in rapeseed meal (South Korea),

Liquefaction of iron ore fines (India),

Water (cargo sweat) damage to rice (Liberia),  
Water damage to cargo of cocoa beans (Turkey),  
Adulteration of olive oil (Turkey),  
Soot damage to cars (Thailand & Indonesia).

**Small selection of opinions conducted:**

Water damage to milling wheat,  
Outturn deterioration to cargoes of grapes,  
Contamination to cellulose,  
Water damage to cargoes of maize & rice,  
Sulphur corrosion damage,  
Physical & environmental impact of cargo of Styrene and other chemicals,  
Deterioration to cargo of apples,  
Water damage to sunflower meal pellets,  
Safe carriage of wide range of chemical commodities,  
Damage to ship's equipment due to dust from aggregates,  
Contamination to cargo of PVC,  
Fuel oil contamination to frozen tuna  
Water damage to cargo of vegetable oil.