

curriculum vitae

Martin Stear

Chartered Occupational Hygienist

BSc (Hons) Dip Occ Hyg CFFOH



**Finch
Consulting**

Summary

Martin Stear is a fully qualified Occupational Hygienist with nearly 30 years occupational hygiene experience, nearly 20 years in consultancy and over 10 years in HSE, the last 6 years as a Principal Specialist Inspector (Occ Hyg), heading the Industry Risks and Programme Development section. Martin has extensive experience developing national risk management strategies aimed at reducing risks to health in various industry sectors. Throughout this work Martin has represented HSE nationally and internationally, developing workable and often innovative solutions, aimed at reducing workplace risks. Key areas of work have included solvents, coating powders, metalworking fluids in the engineering industry, cytotoxic drugs and polycyclic aromatic hydrocarbons, amongst many others.

Martin has also played a key role in the development of HSE's strategies for managing the risks from asbestos in the UK, in particular providing technical expertise on the asbestos 'duty' manage and the four stage clearance procedure, and the review of HSE's guidance for licensed contractors, and analysts. He was co-author of HSG 227 - A comprehensive guide to managing asbestos-containing materials in premises, and provided technical expertise to the development of the Control of Asbestos at Work Regulations 2002 (and Approved Codes of Practices), MDHS 100 (Methods for the Determination of Hazardous Substances) and other guidance. Martin also has extensive experience of surveying for asbestos (types 1,2 and 3) large premises, for example, hospitals, industrial sites and office blocks. He has also managed large scale asbestos removal contracts, from tender to final clearance for re-occupational, and has lectured on many courses, including BIOH (now BOHS) modules (e.g. S301).

Martin has investigated many asbestos incidents and as acted as an expert witness for the private and public sector, with regard to criminal prosecutions and civil litigation. He has acted in approaching one hundred cases and has provided evidence in court on civil and criminal cases. Cases have included multi-million pound claims as a result of the contamination of schools, poor asbestos surveying and contamination of major high street retail department stores, as well as occupational ill health claims. Cases of note include HSE v Marks & Spencer and Others (2011), Williams v Birmingham University (2009) and Southfield School for Girls v Briggs & Forrester Electrical Ltd and others (2007).

Martin is Registrar to the Faculty of Occupational Hygiene of the British Occupational Hygiene Society (BOHS). Martin is also a Fellow of the Faculty. Martin was Chair of the management committee of the Asbestos Building Inspectors Certification Scheme (ABICS).

Education and Qualifications

Academic Qualifications

- 1976 - 1980 St. Paul's Secondary School, Urmston, Manchester
1980: 2 "O" Levels 4 CSE Passes
- 1980 - 1984 North Trafford College of Further Education (day release)
1984: HTC Chemistry
- 1986 - 1990 Stockport College of Further Education (day release)
1990 BSc (Hons) Chemistry 2(ii)

Professional Qualifications

- 1992 BEBOH Diploma of Professional Competence in Occ. Hygiene
- 1993 NEBOSH Certificate in Occupational Safety and Health (distinction)
- 1990 BEBOH Certificate of Operational Competence in Occupational Hygiene
- 1988 BEBOH Preliminary Certificate in Asbestos (credit)
- 1989 BEBOH Preliminary Certificate in Harmful Dusts
- 1990 BEBOH Preliminary Certificate in Workplace Control
- (Note BEBOH is now the Faculty of BOHS)*

Employment History

An Associate of Finch Consulting, Ivanhoe Business Park, Ashby de la Zouch, Leics, LE65 2AB

**Feb 2004 to Director and Consultant Occupational Hygienist
date Workplace Environment Solutions Ltd**

Provide occupational hygiene advice and training services to clients.

- Compiled chemical exposure risk assessment documents for high volume organic chemicals for submission to the EU on behalf of member state competent authority and industry under the REACH Regulations
- Delivered lectures in European Exposure Assessment
- Conducted exposure assessments internationally
- Assisted organisations with global and national risk assessments
- Conducted health risk assessments for clients, including the offshore industry

- Carried out investigative occupational hygiene surveys for clients with problems of workplace exposure to chemicals
- Conducted noise assessments for the workplace and provided recommendations for control for clients;
- Delivered in-house training courses to clients on a range of occupational hygiene issues, including COSHH assessments, noise awareness and asbestos awareness, and working with asbestos
- Provided asbestos management advice to blue chip clients (for example Marks and Spencer, SCA, Bayer CropScience, GSK, United Utilities and Westfield Shopping Towns) and local authorities to help them with compliance with their duties under the Control of Asbestos Regulations 2012
- Conducted investigations into asbestos incidents, providing expertise and compiling retrospective exposure risk assessments.
- Acted as an expert in criminal prosecution cases
- Acted as an expert in occupational ill health cases
- Acted as an asbestos expert on civil cases relating to poor asbestos surveying and asbestos contamination of schools / factories etc.
- Cases include, for example:
 - Williams v Birmingham University (mesothelioma claim) (2009)
 - West v Wirral (mesothelioma claim) (2013)
 - Jeffrey Jones (and Others) v Secretary of State for Energy and Climate Change (Formerly Department for Business, Enterprise and Regulatory Reform) and Coal Products Limited (2011)
 - HSE v Marks & Spencer (prosecution; Lead defence asbestos expert
 - Southfield School for Girls v Briggs & Forrester Electrical Ltd - a school that suffered extensive contamination following building works. Investigating and demonstrating the extent and significance of the contamination.
- Provided expert asbestos advice to the Health and Safety Authority, Northern Ireland in relation to a major redevelopment.

2002 - Jan 2004 Health and Safety Executive, Principal Specialist Inspector of Health and Safety

Key role in developing strategic direction of newly formed occupational hygiene unit following reorganisation. Role requires abilities to coordinate activities of colleagues, industry contacts and research organisations. Martin was co-coordinator of HSE's **Cancer** Programme. Martin continued to provide technical expertise to HSE's work on asbestos, including completion of a review of all HSE guidance and the management of the development of new consolidated guides for licensed asbestos removal contractors and analysts. He also started the development of a Publicly Available Standards for equipment used in the asbestos removal industry, and continued to be actively involved in the 'duty' to manage.

1997 - 2002 Health and Safety Executive, Principal Specialist Inspector of Health and Safety

Managing team and resources providing high quality technical policy support to HSE. Specialising in strategic approaches to control of hazardous substances, including cost benefit assessment. Responsibilities to quality manage production of guidance materials and internal documents for Advisory Committees. Direct and close working contact with industry and worker representative organisations. Extensive involvement in the chemical, pharmaceutical, solvent, engineering, coatings and many other sectors. Examples of work include:

- Assessed and reviewed occupational hygiene information on the usage of several high volume organic chemicals throughout Europe as part of the UK contribution to the **European Existing Substances Regulations**. This included assessing exposure during loading and unloading of high volume hazardous chemicals throughout a chemical manufacturing plant. This information was also presented to the ACTS/WATCH committees when setting and reviewing occupational exposure limits in the UK;
- Working extensively with the **powder coating industry** to establish good practice to reduce occupational ill health. Initiated research in to powder production methods and the availability of cancer causing agents, negotiated with industry representatives about the level of information to be supplied to users. Martin then developed a good practice manual, which includes a training model for users provided on a CDROM. These measures will allow companies to better understand what standard of control is needed to prevent ill health.
- Main author and driver of significant multimedia industry guidance material designed to reduce exposure to **metal working fluids**. Role required frequent delivery of high quality presentations to a wide audience, both in the UK and USA. Martin needed to influence both internal and external stakeholders and gained the support and participation of employee, employer, and fluid and equipment supplier organisations.
- Responsible for the delivery of technical expertise on all matters relating to **asbestos**, to other divisions, directorates, other government departments, ministers, industry and members of the public. This involved the provision of technical expertise for the development of the 'duty' to manage. Martin was co-author of HSG227 – A comprehensive Guide to Managing Asbestos in Premises, and provided technical expertise to the development of UK legislation on asbestos. Martin represented HSE on tripartite industry committees and delivered many key presentations on the asbestos 'duty' to manage as well as the four-stage clearance procedure. Martin was a key source of technical expertise in answering Parliamentary Questions, dealing with trade and professional bodies. Martin provided training to

HSE's field Inspectors on techniques for controlled asbestos removal. He established that exposures to **carcinogens, mutagens and reprotoxins** were not always being adequately controlled in the chemical industry, through the poor assessment and control of task specific exposures. A major HSE initiative is now underway to establish the level of poor practice and establish what constitutes good practice.

1993 - 1997 Health and Safety Executive, Specialist Inspector of Health and Safety

Specialising in control of hazardous substances in the workplace. Providing advice to expert and Advisory Committees on issues relating to practicability of control of substances, dealing with policymakers, inside HSE and other government departments, UK and worldwide. Extensive interaction with industry bodies, both UK, and internationally, gaining their commitment to risk management initiatives. This work has involved me helping shape European directives on the supply and use of chemicals in the workplace, as well as domestic legislation. Martin has also helped develop Approved Codes of Practice and written major HSE guidance. He has also prepared pan European risk assessments on the use and control of hazardous substances, prepared responses to Parliamentary questions, provided expert advice to HSE field inspectors, and represented HSE on many industry trade and product stewardship groups.

1983 - 1993 National Occupational Hygiene Service (NOHS)

Consultant, providing advice related to compliance with major pieces of health and safety legislation. Significant expertise developed in **asbestos, COSHH, lead, noise at work, environmental protection and display screen equipment**. Duties included assisting companies to comply with Health and Safety Legislation including:

- *Health & Safety At Work Etc.. Act 1974,*
- *Control of Substances Hazardous to Health Regulations (COSHH),*
- *Control of Asbestos at Work Regulations,*
- *Control of Lead at Work Regulations,*
- *Noise at Work Regulations,*
- *Environmental Protection Act,*
- *Health and Safety (Display Screen equipment) Regulations*

This entailed carrying out **COSHH assessments, noise assessments, ventilation testing, stack sampling, site investigations and routine air sampling**.

Martin has organised and lectured on numerous **training** courses and seminars. These included BEBOH Preliminary certificate courses or in house for large multi-

national companies. These covered the COSHH regulations, DSE regulations, ventilation testing etc.

Extensive experience carrying out all aspects of **asbestos work**. Martin has completed numerous certificates of re-occupations and surveys. Surveys ranged from small schools to large industrial sites, hospitals and department stores. Martin has carry out full-scale supervisory work of large asbestos removal projects from tendering to handing the area back to the client. These include workplaces still in use where high standards of control were demanded. Martin has managed internal quality control schemes, RICE participation and UKAS accreditation.

My work as a consultant involving visiting clients to negotiate contracts, managing contracts and staff involved, delivering report and where necessary presentation of the report.

Professional Membership and Activities

Professional Activities

- Assistant Registrar of the Faculty of Occupational Hygiene, 2004 to date.
- A member of the management committee of the Asbestos Building Inspectors Certification Scheme (ABICS), 2004 to date.
- Board Member of the British Institute of Occupational Hygienists 2000 to 2002
- Conference organiser for the British Institute of Occupational Hygienists
- Chair of the BIOH working group on short term exposures

Professional Membership

- Corporate Member of the Faculty of the British Occupational Hygiene Society
- Registered Occupational Hygienist

Key Presentations at seminars / conferences etc.

- 1992/93 Lecturer on Manchester University MSC in Occupational Hygiene – ‘asbestos’
- 1993 BOHS Seminar on Asbestos – ‘*a consultants view*’
- 1995 SCI/IOH/RSC Seminar on mixed hydrocarbon solvents – ‘*the regulation of mixtures of solvents*’
- 1996 BOHS Annual Conference – ‘*Occupational Exposure during Powder Coating - in particular TGIC.*’
- 1997 Symposium on Powder Coatings – ‘*Occupational exposure to particulates during the manufacture and use of powder coatings – in particular TGIC*’
- 1997 Workshop on Molecular Epidemiology (carcinogens and mutagens) – ‘*Uncertainties of exposure*’
- 1998 Occupational Hygiene 1998 – ‘*Airborne Exposure to metal working fluids*’
- 1998 British Coatings Federation annual conference – ‘*Good Health is Good Business – solvents*’
- 1999 HSE Conference, Healthy workplaces: Managing Solvents - ‘*Solvent management*’
- 1999 Paint and powder Finishing association seminar – ‘*New guidance, controlling exposure to coating powders*’
- 1999 British Lubricants Federation – ‘*HSE’s recent TDS on metal working fluids*’
- 2000 BIOH annual conference – ‘*The importance of controlling short term exposures*’
- 2001 Occupational hygiene 2001- ‘*The role of measurement in the 21st Century*’ – workshop
- 2001 British Lubricants Federation Conference – ‘*Health & Safety legislative developments*’
- 2002 Occupational hygiene 2002 – ‘*Short term exposure to highly toxic organic chemicals in the chemical industry*’
- 2002 BOHS regional meeting, Scotland – ‘*Asbestos, a duty to manage and the new clearance procedure*’
- 2002 ACGIH symposium on metal working fluids, Cincinnati, USA – ‘*Reducing health risks from MWFs – UK risk management strategy*’
- 2003 BOHS 50th Anniversary Event – *Asbestos, the duty to manage*
- 2003 Various events – presentations on asbestos and the 4 stage clearance procedure
- 2005 PCIH 2005 (Denver, USA) Breakfast session on the new UK limit setting process.
- 2006 Health, Safety, Work and Well-being, Improving asbestos management
- 2007 PCIH 2007 (Louisville, USA) Asbestos Management in the UK
- 2007 KOSIE 2007 (Seoul, Korea) Asbestos Regulation and Management in the UK
- 2010 Occupational Hygiene 2009 – Low level exposure to asbestos and mesothelioma risk
- 2010 Expo 2009 – SHP Arena – Asbestos Surveying, the good, the bad and the incompetent
- 2010 Asbestos surveying: The good, the bad and the ugly – series of ATAC / BOHS road-shows
- 2011
- 2012 Surveying competence – presentation on internal HSE Inspector refresher training (November)
- Asbestos Update – Nottingham Trent University – November
- Asbestos Surveying – Demonstrating Competence – What Next? (February)
- Introduction to Occupational Hygiene – National Food and Drink Conference (October)
- Occupational Hygiene in 21st Century – Expo, NEC

Publications (HSE documents where I was the author)

- HSG 188, Health risks management: a guide to working with solvents
- HSG 203, Controlling exposure to coating powders (included a training CDROM)
- HSG 227 A comprehensive guide to managing asbestos-containing materials in premises
- HSG 231 Working safely with metalworking fluids: Good practice manual
- EH74/1 : Dichloromethane
- EH74/4 : Metal working fluids

Co-author of many others, including MDHS 100

Published Papers

- Occupational Exposure to Metal Working Fluid Mist and Sump Fluid Contaminants: *Simpson, Stear, Groves, Piney, Bradley, Stagg and Crook*; Annals of Occ Hyg; Vol 47; No 1; 17-30.
- Controlling health risks from workplace exposure to metalworking fluids in the United Kingdom engineering industry *Martin A. Stear*; Applied Occupational and Environmental Hygiene; Vol 18, No 11, Nov 03.

Articles (examples only)

- Pigment and Resin Technology: '*Controlling exposure to coating powders*'
- European Chemical News, Oct 99: '*Overexposed*'
- Noise and Health, Jan – Mar 02: '*The importance of controlling short term exposures to solvents*'
- Safety and Health Practitioner, Sept 02: '*Managing Health in metal working*'
- Asbestos, 4 stage clearance – articles for ARCA News, ACADemy, Fibre Aspects and BOHS Newsletter
- H&S International, April 2004: '*Common sense and common practice*'
- Safety and Health Practitioner, May 2004: '*Last Chance Saloon*' – Reg 4 of CAWR 2002
- Occupational Health at Work; October / November 2004: '*Asbestos management*'
- Safety and Health Practitioner, May 2006: '*Our survey said*'
- Safety and Health Practitioner, May 2009. '*A ray of light*'
- Construction National, 2010: "*Asbestos surveying – the dutyholder's key demand?*"
- Safety and Health Practitioner, July 2010. '*Grand Scheme of Things*'

Courses Attended

- 1989 Effective Project Management (organised by Hawksmere)
- 1990 Commercial Awareness (organised by employer NOHS)
- 1991 Sales & Negotiating (organised by employer NOHS)
- 1993 Basic Law (HSE course)
- 1993 Expert Witness (HSE course)
- 1993 Legal Proceedings (HSE course)
- 1993 Seminar on Chemical (Hazard Information and Packaging) Regulations 1993 (HSE course)
- 1994 Foundations of Health & Safety (HSE course)
- 1994 Various Information Technology courses (HSE course)
- 1995 Advanced Reading Skills (HSE course)
- 1995 Advanced Writing Skills (HSE course)
- 1999 Performance Appraisal
- 2000 Respiratory Protective Equipment Course
- 2001 Dermatitis