

CURRICULUM VITAE

NAME John Richard Jackson

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BIRTH DATE : 7th February 1942
PLACE : Sutton Coldfield, Warwickshire, U.K.
FAMILY : Married to Vanessa: two adult sons.
GMC Reg. No. 1270453

EDUCATION

SCHOOL: Clifton College, Bristol 8.
11 O-Levels, 3 distinctions at S-Level; State Scholarship.

UNIVERSITIES: Cambridge (St. John's College) 1960-61
Mathematics tripos with physics, Part 1.
Birmingham Medical School 1961-67
M.B. (Honours), Ch.B. (Honours). M.R.C.S., L.R.C.P.
Queen's Scholarship (final year) 1967.
Drug and Therapeutics Bulletin Prize, 1967.
Joseph Sampson Gamgee Prize in Surgery, 1968.

POSTGRADUATE : Primary F.R.C.S. (Glasgow), May 1969.
University of Manchester Post-graduate course in occupational
medicine 1980-81.
Diploma in Industrial Health, Society of Apothecaries, July 1981.
Associate (1981), Member (1987), Fellow (1991) of the Faculty of
Occupational Medicine of the Royal College of Physicians
Specialist Registration in Occupational Medicine,
Joint Committee on Higher Medical Training, UK, 1988
Specialist Membership of the Faculty of Occupational
Hygiene (1999) - by examination. (MFOH(S))

INSURANCE

Expert witness Lockton Professions (£1,000,000)
Clinical Insurance None. Clinical work is no longer undertaken.

MAIN SKILL

Combining Toxicological knowledge of chemical hazards with
Occupational Hygiene skills related to chemical exposure with
Occupational Medical skills related to the health effects of chemicals

CLINICAL	Full range of clinical occupational and general medical skills. Trained counsellor. However, I no longer undertake clinical work because of the insurance costs.	
MANAGERIAL	Project Management Budget Management People Selection, Development and Management Team facilitation Client Service Agreements and Contract Management Total Quality Management and design and operation of systems	quality
POLICY AND STANDARD SETTING	Development of corporate policy Development of standards and procedures	
AUDITING	Successfully completed Bywater Lead Auditor Course Writing compliance audit protocols; System Audits	
ORGANISATIONAL	International conference organisation	
ASSESSMENT	Formal Chemical Health Risk Assessments Workplace Risk Assessments Capital Project Health & Safety Assessments; due diligence Health Surveillance decisions and design	
OCCUPATIONAL HYGIENE	Hygiene Monitoring Strategy Static and Personal Monitoring Use of direct-reading equipment	
EXPOSURE CONTROL	Ventilation Design Safe working practices design Specification and selection of personal protective equipment Ergonomics	
COMMUNICATION	Hazard and risk communications Presentations Technical writing, reviews and reports Teaching and training	
REPRESENTATION	Of European Chemical Industry to European Commission	
RESEARCH	Study design and execution Data analysis and statistics Review and evaluation of others' research	
COMPUTING	Fully conversant with Microsoft Office plus and many other application software products	
LANGUAGES	English mother tongue. Effective spoken French (including presentations) and intelligible written French; fair spoken Dutch; German was once quite good, but is weak from lack of use. Aural comprehension of these four languages and comprehension of written Italian and Spanish is sufficient for scientific purposes.	

- JACKSON, J.R.** (1972). Mechanism of Ventricular Ejection. *British Medical Journal*, 1, 166-169.
- JACKSON, J.R.** and **WESTBURY, D.R.** (1972). After the horse has bolted - a cautionary dialogue. *Birmingham University Faculty of Medicine and Dentistry Bulletin*, 39, 14-17.
- JACKSON, J.R.** (1972). A system for marking multiple choice questions and performing item analysis using a programmable calculator and employing a new index of the discriminatory ability of questions. *J. Anatomy*, 113(2), 301.
- JACKSON, J.R.** (1973). The Birmingham Medical School Curriculum. *Birmingham University Faculty of Medicine and Dentistry Bulletin*, 37; 14.
- HILTON, S.M., HUDLICKA, O. & JACKSON, J.R.** (1974). The movement of inorganic phosphate ions across capillaries in skeletal muscle during exercise and rest. *J. Physiol.* 239; 98P.
- HILL, C.D., JACKSON, J.R. & MATTHEWS, J.** (1974). A gravimetric plethysmograph for clinical use. *J. Physiol.* 241; 71P.
- DARLINGTON, D. & JACKSON, J.R.** (1976). The structure of information; an attempt at a generic classification. *J. Anatomy*, 121(3), 664.
- JACKSON, J.R. & MATTHEWS, J.** (1976). Gravimetric plethysmography in patients with occlusive vascular disease of the legs. *British Journal of Surgery*, 63(2), 155.
- JACKSON, J.R.** (1977) Causes and possible consequences of transcapillary diffusion potentials. *J. Physiol.* 270(1), 68P.
- HEATH, D.A., BAYLISS, P.H., STOCKLEY, R.A., JACKSON, J.R. , GLAISTER, D.H. & LISTER, B.J.** (1977). Arginine vasopressin release during syncope. *Clinical Science and Molecular Medicine*, 53(3), 10P.
- JACKSON, J.R. & MATTHEWS, J.** (1977). A gravimetric plethysmograph and its evaluation in clinical use. *British Journal of Surgery*, 64(12), 876-882.
- JACKSON, J.R. & WILLIAMS, B.** (1979). Errors in velocity measurement by the Pitot principle in fluids with slowly propagated pressure waves. *Biomedical Engineering*, 1, 50.
- JACKSON, J.R. & HAMMERSLEY, H.** (1981). Biological monitoring for occupational exposure to fluoride. *Fluoride*, April 1981, 75.
- JACKSON, J.R. , JAMES, S.P. & GUEST, A** (1982). Toxicity of benzyl cyanide to the rat. *Toxicology Letters*, 10, 265.
- SORAHAN, T., WATERHOUSE, J.A.H., COOKE, M.A., SMITH, E.M.B., JACKSON, J.R. & TEMKIN, L.** (1983). A mortality study of workers in a factory manufacturing chlorinated toluenes. *Annals of Occupational Hygiene*, 27, 173.
- FREUNDT, K.J. & JACKSON, J.R.** (Eds.)(1984) Proceedings of the VI international symposium on occupational health in the production of artificial organic fibres, Mannheim, 1983. *Giornale Italiano di Medicina del Lavoro*, 6(3/4).
- JACKSON, J.R. & ELIAS, E.** Hepatic function and exposure to phosphine and white phosphorus. *Proceedings of Medichem Conference, Dublin, 1984.*
- SINGH, P.D.A., JACKSON, J.R. & JAMES Sybil P.**(1985). The metabolism of mandelonitrile in the rat. *Biochem. Pharmacol.* 34(12)2207-9.

- JACKSON, J.R.** (Rapporteur) (1986) Ammonia. Environmental Health Criteria 54, IPCS, WHO, Geneva.
- STEPHENSON, J.E. & **J.R. JACKSON** (1987). Tetrakis(hydroxymethyl)- phosphonium Salts and their Derivatives. Dangerous Properties of Industrial Materials Report 7(3); 2-10.
- JACKSON, J.R.** Aromatic and Aliphatic Compounds. In: Hunter's Diseases of Occupations (7th edition), Raffle, P.A.B., Lee, W.R., McCallum, R.I. & Murray, R. (eds.) Hodder and Stoughton, 1987.
- JACKSON, J.R.** (primary author and rapporteur) (1988) Phosphine and selected metal phosphides. Environmental Health Criteria 73, IPCS, WHO, Geneva
- MOORE-TEERDS, Nel C., CHIPMAN J.K. and **JACKSON, J.R.** The antimutagenic effect of ethylenediaminetetramethylene phosphonic acid (EDTMPA) on mutagenesis by sparingly soluble chromium compounds (precise reference not to hand).
- JACKSON, J.R.** (1989) Engineering for Health. Loss Prevention Bulletin, 87, 11-21
- JACKSON, J.R.** (1988) Integrating occupational hygiene into process control. Proceedings of the Medichem Congress, Helsinki 1988 (WHO, Copenhagen)
- JACKSON, J.R.** (1989) Routine health surveillance: the potential benefits. Occupational Health Review June/July, 17-19.
- JACKSON, J.R.** (1989) Modelling exposure - monitoring implications. Proceedings, International Symposium "Exposure Monitoring in Industry, Antwerp, November 1989. Koninklijke Vlaamse Ingenieursvereniging, Technologisch Instituut, Genootschap Veiligheid (Royal Society of Flemish Engineers, Technological Institute, Safety Section).
- JACKSON, J.R.** (1991) Exposition des travailleurs et de la population aux pesticides. Cahiers de Médecine du Travail, **XXVIII** No 4, 295-297.
- JACKSON, J.R.** , CORIGLIANO, L., DE GRAAF, E.L., DE ROOY, C., DE JONG, G., FARRAR, D., SHARRATT, M. AND BONTINCK, W.J. (1991). Emergency Exposure Indices for Industrial Chemicals. ECETOC Technical Report No. 43.
- JACKSON, J.R.** , HOLLANDER, H., ULRICH, H., STROPP, G., WISCHER, D. AND HAEBLER, W. (1992) Tris-(2-ethylhexyl)-phosphate. ECETOC Joint Assessment of Commodity Chemicals No 20.
- JACKSON, J.R.** , HOLLANDER, H., ULRICH, H., STROPP, G., WISCHER, D. AND HAEBLER, W. (1992) Tris-(2-butoxyethyl)-phosphate. ECETOC Joint Assessment of Commodity Chemicals No 21.
- VERSCHUUREN, H., **JACKSON, J.R.** , SCOTT, R. AND NIESSEN, H.J. (1993) Strategy for Assigning a "Skin Notation". ECETOC Document No. 31 (revised).
- JACKSON, JOHN R** & TANSLEY, ANGELA R. (1996). Conceptualising and Communicating a Reconfigured Occupational Health Service. Int. Arch. Occup. Environ. Health **68**: 472-477.
- JACKSON, JOHN R**, de KERCHOVE, GERARD & KARAKAY, ASUMA (1997) Letter to the editor regarding immunotoxicity of n-Hexane. Human & Experimental Toxicology, **16**, 284-285.
- SORAHAN, TOM, HAMILTON, LINDA & **JACKSON, JOHN R.** (2000) A further cohort study of workers employed at a plant manufacturing chemicals for the rubber industry, with special reference to the chemicals 2-mercaptobenzothiazole (MBT), aniline, phenyl- β -naphthylamine and ortho-toluidine. Occup. Environ. Med.; **57**: 106-115.

JACKSON, JOHN R. (1999). Activity in 1998 in the development of standards of good epidemiological practice: Int Arch Occup Environm Health 72 (Suppl 3) : M 81 - M 85 .

JACKSON, John R. (Ed.) Issues relating to the risk assessment of dermal exposures. Report submitted with the final report of the EU Thematic Network (Contract SMT-CT96-7502 (DG12 - RSMT)) - Dermal Exposure Network. December 1999.

JACKSON, John R et al. The use of T25 Estimates and Alternative Methods in the Regulatory Risk Assessment of Non-threshold Carcinogens in the European Union. ECETOC Technical Report No 83, ECETOC, Avenue E van Nieuwenhuysse 4(bte6), B-1160 Brussels, Belgium. January 2002

VIVA VOCE PAPERS (VV), POSTER PRESENTATIONS (P), ARTICLES (A), LETTERS (L) AND DEMONSTRATIONS (D) TO LEARNED SOCIETIES (not published in peer-reviewed journals) (Single authorship unless indicated)

Attempt at vascular capacity measurement by computation of inflow and outflow (D). Physiological society, 1969.

A hybrid cardiovascular computer for bedside use (D). Medical Research Society, 1974.

Teaching videotapes (variously demonstrated and extensively used):-

- I. The electrocardiogram - 1
- II. The electrocardiogram - 2
- III. Measurement of cardiac output by thermal dilution
- IV. Haemodynamics and blood pressure

The movement of inorganic phosphate across skeletal muscle capillaries (VV). 1st World Congress of Microcirculation, Toronto, 1975.

Gravimetric plethysmography in patients with obliterative vascular disease (VV). 1st World Congress of Microcirculation, Toronto, 1975.

A methodological approach to cerebrospinal fluid dynamics in Man (D). Physiological society, 1975.

Biological monitoring of occupational fluoride exposure (P). University of Birmingham Faculty of Medicine and Dentistry Research Symposium, 1979.

Treatment of Gassing Casualties (VV). Society of Occupational Medicine Jubilee Meeting, 1985.

Rapid ranking of toxicological hazards (P). Society of Occupational Medicine, Annual Provincial Meeting, June 1986.

Toxicity of herbicide containing glyphosate (L) Lancet, February 20, 1988 p 414

Engineering for Health. Loss Prevention Bulletin **087** June 1989 (A)

Medical Planning for toxic releases into the community: the example of chlorine gas. (L) (1989). Brit. J. Indust. Med. **46**(10).

Routine Health Surveillance: the potential benefits (A). Occupational health Review **19**, June/July 1989, 17-19

Occupational Health Through 1992 (VV). Joint meeting of the Society of the Chemical Industry and the Society of Occupational Medicine, January 18th 1989

Emergency Exposure Indices (VV). American Industrial Hygiene Conference, May 1990.

Spreadsheet Computer Models of airborne exposures (P & D). American Industrial Hygiene Conference, May 1991. *This paper was awarded the prize for the Poster with the Best Technical Content*

- Regulation of Carcinogens - practical perspectives from a European Industry Viewpoint. (VV) UK HSE conference on "Carcinogens in the workplace", 1993
- Haemolytic anaemia in a case of occupational asthma due to maleic anhydride. (1993) **JACKSON, JOHN R & JONES, ALUN H.** Brit. J. Indust. Med. **50**, 191-192
- Risk Assessment. (VV) Royal Flemish Society of Engineers, Ghent, 22 October 1993
- Exposure Limits of No Concern (ELNC) - Concept, Algorithm and Evaluation. (VV) British Occupational Hygiene Society Autumn Scientific Meeting, 12 October 1994.
- 5 major contributions to the NIVA Course on Risk Assessment and Risk Management for the Working Environment, Vedbaek, Denmark, 13-16 November 1995
- Experience in the redesign and early development of a quality system for occupational health (P). **JACKSON, JOHN R. AND TANSLEY, ANGELA R.** Quality & Audit in Occupational Health Services Conference, Glasgow, 22-24 November 1995
- Concepts and Developments in Exposure Limit Setting (VV). In House Occupational Exposure Limits - problems, practicalities and opportunities (SCI & IOHA), 11-12 April 1996.
- Workplace Risk Assessment and European Legislation (VV). Norwegian Occupational Hygiene Association Conference, 14-16 October 1996
- Computer Assisted Workplace Risk Assessment Package (WRAP) (VV/D). Norwegian Occupational Hygiene Association Conference, 14-16 October 1996
- A decision-making tool for Risk Assessment (VV), Health & Safety Executive Occupational Hygiene Discipline Conference, Warrington, 12-14 February 1997
- Perspectives in Risk Assessment. (VV) **JACKSON JR.** Technical Meeting of the European Centre for the Ecotoxicology and Toxicology of Chemicals (ECETOC), Brussels, November 1996.
- A new proposal for a code of good epidemiological practice. (VV) BLOEMEN LJ, , **JACKSON JR**, ,KIGHTLINGER MF, MUNDT KA & PASTIDES H. Proceedings of the 6th International Symposium "Epidemiology and occupational risks.", 1998. Allgemeine Unfallversicherungsanstalt, A-1200 Wien 1999.
- The clinician's response to the possibility of exogenous endocrine disruption as a new mechanism of pathogenesis (VV). Conference of the International Commission of Occupational Health (ICOH), Singapore, 2000.
- Some ways of presenting lung function data (P). **JR.Jackson**, Medichem conference, Paris, September 2004.
- Enhanced Health Surveillance. (P) **JR.Jackson**. Society of Occupational Medicine Annual Scientific Meeting, June 2006
- Cutaneous and systemic sequelae from exposure to 2-vinylpyridine. (P) Rajpar SF, **Jackson JR**, Foulds IS. Society of Occupational Medicine Annual Scientific Meeting, June 2006
- Retrospective exposure assessment and toxicological and clinical interpretation in the preparation of expert reports in cases of civil litigation over alleged chemical injuries. (P) **J.R.Jackson**. Society of Occupational Medicine Annual Scientific Meeting, July 2008.

PRIZES

Best Technical Content Poster Presentation, American Industrial Hygiene Association Conference, 1991.

APPOINTMENTS - Employment

July 1967 - Jan 1968	House Surgeon, Queen Elizabeth Hospital, Birmingham (Mr. A. Innes and Mr. V.S. Brookes).
Jan. 1968 - July 1968	House Physician, Queen Elizabeth Hospital, Birmingham (Medical Professorial Unit)
1968 - 1970	Temporary Lecturer, Department of Physiology, University of Birmingham
1970 - 1976	Lecturer, Department of Physiology, University of Birmingham
1968 - 1976	Salaried Partner in General Practice, Griffins Brook Medical Centre, Birmingham, 30 (Birmingham Family Practitioner Committee)
1976 - 1983	Senior Medical Officer, Phosphates Division, Albright and Wilson Ltd., Warley, West Midlands
1983 - 1986	Principal Medical Adviser, Albright and Wilson Ltd., Warley, West Midlands
1978 - 1984	Honorary Lecturer, Department of Physiology, University of Birmingham.
1984 - 1986	Honorary Lecturer, (Applied Industrial Toxicology), Department of Biochemistry, University of Birmingham.
1986 - 1997	Director, Medicine and Health Sciences, Monsanto Europe S.A.
1997 - Present	Independent Consultant, initially practising with an information scientist (Margaret Hocking) as Jackson Hocking Ltd. & Associates
Sep 1999 - June 2014	Lecturer in toxicology, risk assessment and occupational health, University of Birmingham
Jan 1999 - Dec 2000	Consultant Occupational Physician, Birmingham City Council
Jan 2001 - Mar 2015	Medical Adviser as required to about 50 Midland SMEs
Jan 2002 - 2005	Medical Adviser, Invista, Gloucester
Jan 2002 - 2006	Consultant Occupational Physician, Performance Through Health Group
Jan 2002 - Dec 2003	Independent Medical Referee to the Home Office in respect of Police Pension appeals
Jan 2003 - 2006	Medical Advisor, Dupont, Bristol
Jan 2004 - 2013	Selected Medical Practitioner, W Mercia Constabulary
July 2007 - 2008	Medical Advisor, Northamptonshire Fire & Rescue Service
Jan 2008 - 2010	Consultant, Patheon Ltd, Swindon

- 1982 - 1985 Member, Medical Advisory Group, Fertiliser Manufacturers' Association
- 1982 - 1986 Member, Medical Working Group, Chemical Industries Association Safety, Health and Environmental Committee (CISHEC).
- 1982 - 1986 Member, Standing Committee & member, Medical Advisory Committee, Soap and Detergent Industry Association (SDIA).
- 1983 - 1986 Member, Toxicology Advisory Panel of the Cosmetics, Toiletry and Perfumery Association
- 1984 - 1986 Chairman, Subcommittee of CISHEC MWG, revising "Gassing Labels",
- 1985 - 1985 Visiting Expert and Rapporteur, IPCS¹ (Ammonia EHC¹ workgroup)
- 1985 - 1987 Member, Exposure Limits Task Force, Chemical Industry Association
- 1986 - 1986 Author (draft EHC document), Visiting Expert and Rapporteur WHO IPCS¹ (Phosphine and Metal Phosphides EHC workgroup).
- 1997 - 1987 Member, Health Protection Committee (later, Health Practices Group) of European Chemical Industries Council (**CEFIC**). Chairman from 1991 - December 1993.
- 1987 - 1997 Member Health Advisory Group of Chemical Industry, Health and Environmental Council of UK Chemical Industries Association (CISHEC)
- 1987 - 1989 Member, Toxicology Working Group of Technical Committee, Plasticizers and Related Products
- 1987 - 1990 Chairman, Emergency Exposure Indices Task Force of European Centre for the Ecotoxicology and Toxicology of Chemicals (ECETOC)
- 1997 - 1988 Member, Health & Safety Committee, British Agrochemicals Association
- 1988 - 2002 Member, Scientific Committee, of ECETOC
- 1988 - 1997 Board Member, Belgian Society for Toxicology
- 1988 - 1997 Board Member, Belgian Society for Occupational Hygiene
- 1997 - 1990 Member, CEFIC Health and Safety Regulations Working Party
- 1997 - 1990 Member, CEFIC Occupational Exposure Limits Task Force
- 1991 - 1996 Chairman, UK Joint European Committee of the Faculty of Occupational Medicine of the Royal College of Physicians of England.
- 1995 - 1998 Member, Informal Working Group, Risk Assessment (Chemicals), Commission of the European Community (DGV/E/2)
- 1993 - 1995 Chairman, CEFIC Sensitizers Task Force
- Various Member of ECETOC Task Forces producing JACC (Joint Assessment of Commodity Chemicals) Reports, Technical reports on "Testing for Worker Protection", "Testing for Therapeutic Advice", "Skin Notation", "Good Documentary Practice".

¹ International Programme on Chemical Safety of the World Health Organisation publishes 'Environmental Health Criteria Documents' (EHC's).

I switched to studying medicine after studying physics and mathematics at Cambridge University. This had been the natural sequel to a mistaken choice of subjects at the age of 15. I qualified in medicine with the only double honours degree in my year at Birmingham University. After qualifying, I planned to enter a surgical speciality and took an appointment in the Birmingham Physiology Department as a Temporary Lecturer while I worked for the Primary Examination of the Royal College of Surgeons.

Phase 1 of scientific experience

In the Physiology Department, I also became involved in microvascular research and learnt about electronic instrumentation, electronics and analogue computation. but was poorly supervised and the publication of some of my work was not possible because of internal conflicts in the Department. Nevertheless, publications 1,4,5 & 9 resulted. In addition, I had a major teaching load and became involved in educational research and curricular development. Publications 2,3,4 & 7 reflect this interest.

Phase 2 of scientific experience

I progressively ceased to work on microvascular physiology because of the conflicts to which I alluded and switched my attention to the application of physiological techniques to clinical problems. Publications 6,8,10,11,12 reflect this. A considerable effort in this phase was put into the development of a hybrid computer which was applied to patients after by-pass surgery and derived haemodynamic indices based on intraventricular and aortic pressure and on aortic root blood flow. This computer was demonstrated (using tape-recorded data) at the Medical Research Society in 1974 and very nearly received major financial support from the British Heart Foundation in 1976. Their decision not to support the work was, as it turned out, wise since digital computing techniques would rapidly have supplanted the hardware; however, it was material in my looking for new pastures which led me, eventually, into occupational medicine.

Phase 3 of scientific experience

Initially, my time in occupational medicine was pre-occupied with gaining the necessary experience as quickly as possible and acquiring the Diploma in Industrial Health. I was asked to give lectures in Physiology to the new M.Sc. Toxicology course at Birmingham University Department of Biochemistry. This developed into research project supervision and active involvement in research programmes. Publications 14, 18 & 22 reflect this. Within the field of occupational medicine proper, I endeavoured where there were health problems to investigate these scientifically and publish the findings. Publications 13, 15 & 17 are the results of this. It is noteworthy that these papers cover clinical, epidemiological and biological monitoring aspects.

In both my jobs in the Chemical Industry, I have been intimately involved in product safety evaluation and product stewardship including, in the early days, ecotoxicology. I have practical experience of Risk Assessment and of the related scientific and regulatory aspects. The range of products included industrial chemicals, food additives -e.g., phosphates, aspartame, gums, etc. - (which has given me experience of food safety) plasticizers, coatings and resins (which has introduced me to food contact and indirect food additive issues), surfactants and biocides (which has given me experience of cosmetics, toiletries and household products sectors) and pesticides (which has given me experience of food residue issues, ADIs, etc.).

Latterly, the need to maintain a high level of understanding in various fields with which I was concerned has presented the opportunity to publish reviews of work with which I was closely connected but had not personally undertaken (Publications 16,19,20 & 21). Indeed, with the exception of the Ecotoxicological section, most of the EHC on Ammonia was rewritten by me in my capacity as rapporteur. The (solicited) publication "Engineering for Health" is a consideration of the need to integrate control measures for workplace hazards into process control and develops the concept of "control-measure-monitoring" as the basis of hazard control in the workplace. It was a pleasant opportunity to publish what one thinks rather than what one has done!

In later years, I became increasingly involved in the committee structure of the chemical and related industries with regard to occupational and product health and safety matters. This gave me

excellent opportunities to appreciate the non-scientific aspects of occupational health and toxicology and I have greatly benefited from the cross-fertilisation of ideas which results from working with colleagues from related disciplines. This experience has included work in regulatory affairs and regular contacts with the European Commission.

I have managed the occupational medicine and hygiene functions in two companies and the toxicology manager in the Europe-Africa world area and I have been involved in team-work in relation to many aspects of the business, including Total Quality Management, business process re-design etc. I have been involved to the extent of writing the Project Scope and User Requirement Definition in the development of major corporate computer systems and project management and budgeting in this and other spheres.

Recent Experience

Since starting my own company in 1997, I have had to develop my skills in all the aspects of running a small business and managing contracts with clients. When your livelihood depends on it, "client focus" becomes a reality! In addition to some on-going service commitments, we are now dealing with several tens of investigations and reports per year.

The table below indicates the experience I have in producing Expert Reports in cases relating to litigation, insurance claims, pension and employment tribunal appeals. A recent survey of instructing solicitors and officers confirmed the quality and helpfulness of my reports.

While it would be foolish to claim that I am a major original scientist with a significant contribution in any field, I believe that my wide experience in physical and biological sciences and in clinical medicine, my mathematical training and the fact that I have actively practised in the fields of occupational medicine, occupational hygiene and toxicology enable me to make an unusual contribution to scientific deliberations which often seems to clarify or resolve issues and is therefore useful.

On the managerial and political sides, I have useful experience. I have participated in many task forces and teams, often as leader but also as rapporteur and generally with success. I enjoy strategic planning and can delegate tactical aspects where appropriate. I am interested in Management systems and am experienced in the development of policy, procedures, standards and auditing. I have completed the Bywater plc training course in Quality Assurance Auditing. I have undertaken major Management Consultancy projects for BASF, a UK Health Authority and Petronas, the Malaysian state-owned petrochemical company.