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Career History

2016 – Present

A Bishop and Son, Waterlooville

Undertaking chemical, toxicological and expert witness consultant work providing comprehensive reports and attending courts throughout the UK to give expert evidence. Both criminal and civil cases undertaken for lawyers, law enforcement agencies and insurance companies.

Areas of expertise include:

Alcohol Back Calculations
Drink / Drug Driving under the Influence
Illicit Drug Use
Alcohol / Drug Assisted Aggravated / Sexual Assault
Effects of Alcohol / Drugs / Medication
Interpretation of Forensic Reports

1972 – 2016

Wickham Laboratories Ltd, Gosport, Hampshire

The Company offers contract testing services to the pharmaceutical and medical device healthcare industries specialising in the disciplines of microbiology, toxicology and in vitro tests including cell culture.

2015 – 2016 Consultancy

- Working part time to support the Quality Assurance Unit

2000 – 2015 Technical Director

- Responsible for the general management of the Company which employed approximately 100 members of staff
- Obtained finance and successfully moved the Company to a purpose designed facility without interruption of business and initiated process for future Company development as a test facility recognised worldwide.

1980 – 2015 Laboratory Manager, Laboratories Director

- Initially responsible for the Chemistry, Histology Microbiology, Virology and Avian Sciences sections and since 1985 for the Toxicology facility
- Appointed to the Board of Directors to increase involvement in policy decisions
- Set up a new management structure and refocused the Company to consolidate services offered to the pharmaceutical and human food industries primarily centred around quality control and late end development work
- Introduced GLP and took the Company forward to obtain MHRA, GMP and FDA approval and later UKAS (NAMAS) accreditation
- Along with the Company Accountant responsible for the preparation and implementation of budgets and directly responsible for all personnel matters.

1972 – 1980 Technician then Section Head of Chemistry

This department undertook nutritional analysis for the agricultural feed compounders and biochemistry and hematology diagnostic services for the veterinary profession. The full range of proximate tests were covered along with analysis of minerals (by AAS and flame photometry), vitamins and medicated feeds.

- Responsible for setting up the first commercial bovine pregnancy diagnostic service based on the assay of progesterone in milk using RAI
- The department expanded from six staff in 1975 to fifteen in 1980 and diversified, offering analytical services to the pharmaceutical and human food industries, using a variety of techniques such as HPLC, GC, AAS and Electrophoresis
- Additional expertise included stability studies, pre formulation work and quality control on pharmaceutical products; analysis of drugs in biological fluids for bioavailability and bioequivalence studies including blood alcohol and drugs of abuse; pesticide residue, effluent and heavy metal analysis
- Responsible for designing and supervising the building of the new chemistry laboratory.

Key Skills

Analytical Chemistry:

- Quality Control: stability testing of pharmaceutical products, medicated feeds and vitamin formulations and pharmacopoeial analysis
- Excipient compatibility test for novel formulations
- Bioanalysis of licit and illicit drugs
- Determination of alcohol in blood
- RIA of hormones. Developed the first commercial pregnancy testing service for cattle based on the determination of progesterone in milk
- Nutritional analysis: solvent residues, effluent monitoring, heavy metal determination, pesticide residues and drinking water
- HPLC, GC, MS, AAS, UV and IR.

Biological Sciences:

- Named duties under the Animal (Scientific Procedure) Act 1986
- Ethical review of systems and procedures
- Animal husbandry: animal unit management, animal nutrition, animal welfare – rodents and farm animals and SPF facilities
- Biological products: safety assessment and potency assay.
- Cell culture, Electrophoresis and ELISA

Computing:

- Programming: Microsoft Visual Basic/VBA, C, Pascal, Basic, Fortran, Atlas Autocode, very limited assembler and machine code
- Operating systems: Basix, Unix, DOS, Windows 3.1, Windows 95, NT 4 and 2000.
- Networks: LAN (Cat 5), TCP/IP
- Software – MS Office 95 and 2000 installation and deployment
- Development of a LIMS system based on Microsoft Access
- External courses: system maintenance for Unix, Microsoft NT4, Access VBA Development.

Expert Witness:

- Expert reports: drink driving, drugs of abuse, pharmaceutical products and agricultural products
- Court attendance: criminal and civil cases.

Human Resources:

- Management of staff recruitment and personnel administration
- Staff appraisals: setting standards, initiating appraisals, assessing training and coordinating feedback from staff
- Preparation and maintenance of Employment Contract
- Negotiation of fair working practices with staff
- Disciplinary and grievance procedures.

Education

1961 – 1967 Churcher's College, Petersfield, Hampshire

O Levels; A Levels in Chemistry, Physics, Pure Maths and Applied Maths.

1967 – 1970 University of Manchester (Faculty of Science)

BSc (Honours) in Chemistry

Subsidiary subjects Physics and Mathematics

1970 – 1972 Hampshire College of Agriculture

City and Guilds Certificate, Agriculture (stage 3) in Farm Organisation and Management.

A specific course covering accountancy, costings and management.

1972 – 1973 Highbury Technical College

Diploma in Biochemical and Chemical Techniques

A course dealing mainly with separation techniques.

Professional Memberships

- The Royal Society of Chemistry Fellow (FRSC) and Chartered Chemist (C.Chem)
- Registered with the Science Council as a Chartered Scientist (CSci)
- Subgroups including the Joint Pharmaceutical Forum
- Past referee for Journals including 'The Analyst'
- British Standards Institute. Past member and past Chairman for the Animal Feeding Stuffs Technical Committee AW/10
- Fellow of the Chromatographic Society
- Member of the Research Quality Association
- Member of the London Toxicology Group
- Member of the Academy of Pharmaceutical Sciences
- Member of the United Kingdom and Ireland Association of Forensic Toxicologists.
- The Chartered Society of Forensic Sciences

Publications

S. Adler, G. Bicker, H. Bigalke, C. Bishop et al *The Current Scientific and Legal Status of Alternative Methods to the LD50 Test for Botulinum Neurotoxin Potency Testing*, ATLA 2010 **38**: 315 – 330.