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PROFILE

I am a veterinarian with broad experience of disease epidemiology, diagnosis and control. In particular I have specialist expertise and extensive practical experience of disciplines relating to the control of infectious and especially epizootic and zoonotic diseases, namely; disease investigation; virology; laboratory diagnostics; epidemiology; reporting and surveillance systems; disease control procedures; official veterinary service structures and functions. I have a proven track record in initiating, planning, executing and assessing research and I am skilled at project design and implementation, conducting meetings and workshops (national and international), public presentation and teaching at post-graduate student and professional levels. I have broad experience of the recognition, epidemiology, diagnosis and control of virtually all the major infectious diseases of livestock, *inter alia*: rinderpest; avian influenza; Newcastle disease; *peste des petits ruminants*; foot-and-mouth disease; Rift Valley fever; bluetongue; African horse sickness; classical swine fever; African swine fever; sheep and goat pox, lumpy skin disease; rabies; malignant catarrhal fever, contagious bovine pleuropneumonia; contagious caprine pleuropneumonia; haemorrhagic septicaemia; brucellosis; anthrax; tuberculosis and bovine spongiform encephalopathy. I have lived and worked on long term assignments for 12 years in developing countries in Africa and Asia and have traveled extensively to work in 64 countries in Africa, Asia, the Americas, the Caribbean and Europe. Consequently I have an extensive knowledge of the conditions which prevail in developing countries and those in transition; I maintain an extensive network of contacts at senior government level in countries throughout the African, Asian and Middle East regions. I use computers for word processing (Word), presentations (Powerpoint), spreadsheets (Excel), databases (Access), digital image manipulation (Photoshop and Paintshop Pro) and electronic mail (Outlook, Mozilla Thunderbird) as well as other less frequently used software applications. On reaching mandatory UN retirement age in June 2007 I retired from FAO and now work as a UK-based independent consultant. I was made an Officer of the Order of the British Empire (OBE) in the 2008 New Year's Honours List for services to veterinary science.

PERSONAL DETAILS

- British citizen born in England
- Date of birth: 30 May 1945
- Married with three children

LANGUAGES

- English: mother tongue
- French: spoken fair; written fair; reading good

MAJOR ACHIEVEMENTS

- leadership of the Global Rinderpest Eradication Programme to the successful global elimination of the disease after 13 years
- seminal 13 year contribution to developing FAO's Emergency Prevention System for Transboundary Animal and Plant Pests and Diseases from its start and providing technical leadership globally for the control of transboundary animal diseases
- development of teaching manuals for disease recognition and guidelines for emergency preparedness planning with publication of more than 110 papers, mostly in peer-reviewed journals
- development of the rapid detection and typing ELISA which is still the global standard for FMD diagnosis more than 20 years after its development
- seminal work on the pathogenesis and epidemiology of pestivirus infections (bovine virus diarrhoea and mucosal disease, Border disease) and bluetongue virus foetopathogenicity
- leadership of teams which developed *inter alia* a commercially-marketed ELISA kit for identification of calf enteritis pathogens and latex agglutination tests for detection of other pathogens (for example *Escherichia coli* virulence markers)

EDUCATION/QUALIFICATIONS

- **1956 to 1964** **Sutton County Grammar School, Surrey, UK**
GCE "O" level: English, French, Mathematics, Chemistry, Physics, Biology, Botany
GCE "A" level: Chemistry (Grade A), Physics (Grade B), Zoology (Grade A)
- **1964 to 1969** **Royal Veterinary College, London University**
Subject: Veterinary Medicine and Surgery
Degree: Bachelor of Veterinary Medicine (distinction in Pathology)
- **1973 to 1974** **Centre for Tropical Veterinary Medicine, Royal (Dick) School of Veterinary Studies, University of Edinburgh**
Subject: Tropical Veterinary Science
Degree: Master of Science
- **1980 to 1984** **Royal Veterinary College, London University**
Subject: Veterinary Virology
Degree: Doctor of Philosophy

Courses

- **1979** North-East Polytechnic, London, UK
Separation Techniques (chromatography) – 2 weeks
- **1980** Middlesex Hospital, London, UK
Immunology – 12 weeks
- **1998** Warwick University, Coventry, UK
"From Seroepidemiology to Cost-effectiveness" – the Design of Vaccination Programmes and Mathematical Modelling of Disease – 1 week

PROFESSIONAL EXPERIENCE

July 2007 to date Independent veterinary consultant

Consultancies and professional activities completed and in progress:

- (1) July 2007 to June 2009: Bechtel National Inc., 8180, Greensboro Drive, Ste 900 McLean, VA22102, USA TADR Programme (continuing)
Provision of expert advice and training on transboundary animal disease investigation, diagnosis and epidemiology, preparation of training materials and conducting training courses and simulation exercises during repeated visits to Georgia, Kazakhstan and Uzbekistan. This concerns primarily foot-and-mouth disease, rinderpest, peste des petits ruminants, avian influenza, Newcastle disease, African swine fever, classical swine fever, anthrax, brucellosis, poxvirus diseases and glanders together with their differential diagnosis. (150 days when actually employed at home and in the field).
- (2) 18 to 26 August 2007: GRM International, Dubai, UAE, PO Box 75654, The Fairmont, Office 624, Sheikh Zayed Road, Dubai, UAE
Analysis of animal health status of a dairy farm in Egypt for a Saudi Arabian Company (8 days consultancy)
- (3) 15 September 2007: SADC FMD Project, Millennium Park, Kgale view, Plot No. 116, first Floor, Offices 122/123, Gaborone, Botswana
Analysis of the use of NSP antibody assays for detecting infections caused by SAT FMD serotypes (10 days consultancy at home)
- (4) 15 to 21 September 2007: International Livestock Research Institute, Nairobi, Kenya.
Participate in planning meeting for USAID-funded African HPAI Surveillance Project and a new initiative- the Participatory Approaches to Surveillance in Africa (PASA) programme of ILRI (7 days consultancy)
- (5) 22 January to 1 February 2008 and 11 to 13 April 2008: GRM International, Dubai, UAE, PO Box 75654, The Fairmont, Office 624, Sheikh Zayed Road, Dubai, UAE
Review of the Draft Strategic Plan for Official Veterinary Services, for the Abu Dhabi Environment Agency (14 days in Abu Dhabi and Dubai).
- (6) 15 February 2008: The Veterinary Research Club Annual Dinner
After dinner speech: *Control of epizootic diseases*
- (7) 31 March to 1 April 2008: Society for General Microbiology 162nd Meeting, Edinburgh.
Invited speaker: *Rinderpest vaccine strategy*
- (8) 4 April 2008: Irish Veterinary Officer's Association Scientific Day, Kilkenny.
Key speaker: *Future risk of exotic viral disease incursion into Ireland or the UK*
- (10) 16 May to 5 June 2008: Food and Agriculture Organisation of the United Nations, Rome, Italy.
Revision of the Indonesian Ministry of Agriculture's National Strategic Plan for the Progressive Control of Highly Pathogenic Avian Influenza (21 days in Indonesia plus 3 at home).
- (11) 1 August 2008: Dr John Anderson Retirement Seminar on Morbilliviruses at the Institute for Animal Health, Pirbright Laboratory, UK. Presentation made on *The Intensified Global Rinderpest Eradication Programme*.
- (12) 2 to 6 August 2008: USDA/Madison University Foreign Animal Disease Training Course in Madison, Wisconsin, USA at which I made presentations on *Foot-and-Mouth Disease, Rinderpest, Peste des Petits Ruminants* and the *Roles of FAO and OIE*.

- (13) 19 to 22 August 2008: South African Society for Veterinary Epidemiology and Preventive Medicine, Continuing Professional Development Course for which I conducted six sessions on *Rinderpest, Peste des Petits Ruminants, African Swine Fever and Diseases Important in its Differential Diagnosis, Bluetongue and Epizootic Haemorrhagic Disease, Foot-and-Mouth Disease, Highly Pathogenic Avian Influenza and Emerging Zoonotic Diseases*.
- (14) 5 to 9 October 2008: Participate in the Onderstepoort Centenary Pan-African Veterinary Congress as invited speaker to present paper entitled *Rinderpest: an historical overview*
- (15) 13 to 18 October 2008: Food and Agriculture Organization of the United Nations
Participate in the Open Session of the FAO European commission for the Control of Foot-and-Mouth Disease Standing Technical Committee, Erice, Sicily as invited speaker to present a paper entitled *FMD Type C situation - the first target for eradication*.
- (16) 23 October to 6 November 2008: Natural Resources International Park House, Bradbourne Lane, Aylesford, Kent ME20 6SN, UK
Development of a strategy for the progressive control of foot-and-mouth disease in Pakistan: first assignment
- (17) 8 to 18 November 2008: SADC FMD Project (EC Project 9 ACP SAD 010)
Participating in the SADC Kasane Workshop *Achieving Compatibility Between the TFCA Concept and International Standards for the Management of TADs*, including making a presentation *Overview of Transboundary Animal Diseases: Current International status and Management Approaches*, and acting as rapporteur to produce a Workshop report

1994 to June 2007 Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00100 Rome, Italy

Position: Initially Animal Health Officer (Infectious Disease Emergencies) then, from 2000, Animal Health Officer (Virology) and Secretary of the Global Rinderpest Eradication Programme in the Animal Health Service's Emergency Prevention System for Transboundary Animal and Plant Pests and Diseases (EMPRES), Animal Health and Production Division

Responsibilities: I was one of a small group who established and developed the EMPRES programme; initially my stated responsibility was to promote emergency preparedness in developing countries through a programme of early warning, early reaction, enabling research and coordination of international programmes to strengthen the global capacity for control of epidemic diseases. During this time I worked extensively on global rinderpest control and eradication as well as other diseases such as foot-and-mouth disease, African and classical swine fever, peste des petits ruminants and contagious bovine pleuropneumonia. After open competition, in 2000 I was appointed to the senior post of Animal Health Officer (Virology) with special duties as Secretary of the Global Rinderpest Eradication Programme (GREP). The proactive strategic focus of this work targeted primarily the Global Rinderpest Eradication Programme (GREP) in Africa, the Middle East and Asia and this involved, in part, working closely with the *Office International des Epizooties* on accreditation of rinderpest freedom. Extensive travel was undertaken, supplemented by consultants who I supervised, to monitor epidemic disease status, analyse epidemiological patterns, analyse disease emergencies to formulate strategies for control, and advise and assist governments to establish surveillance and control programmes. This involved extensive interaction with Chief Veterinary Officers and government officials up to Ministerial level and international agencies at a high level. I played a leading role in the design and technical implementation of FAO Technical Cooperation Programme and Trust Fund projects including: rinderpest control in Kenya, Tanzania, Pakistan, Afghanistan, Sri Lanka, Iran, Iraq, Yemen, Armenia and Turkey; regional epidemiology and Pan African Veterinary Vaccine Centre projects for EC/OAU IBAR, PARC and PACE projects in Africa; CBPP control and emergency preparedness in Tanzania, Rwanda, Zaire, Uganda, Malawi, Botswana, Zambia and Congo DR; FMD strategy formulation and control implementation in Bolivia, Laos, Vietnam, China, Cambodia, Malawi and the Philippines; African swine fever control/eradication in Côte d'Ivoire, Kenya, Mozambique, Togo, Benin and Nigeria; hog cholera control in Haiti and Bolivia; Rift Valley fever control and early warning systems in the Horn of Africa and the Arabian Peninsula; *peste des petits ruminants* in Pakistan, Bangladesh, Nepal and Tajikistan. I was technical advisor to the livestock component of Operation Lifeline Sudan from 2000. In the last two years a new focus of highly pathogenic avian influenza was added to my responsibilities with special attention to Indonesia, Bangladesh, Vietnam, Sri Lanka, Lebanon, Nigeria and Sudan. In Indonesia I led strategy development for HPAI control.

The work was funded through the FAO Regular Programme supplemented by FAO Technical Co-operation projects and other trust fund arrangements;

in the 14 years I worked for FAO I raised directly more than US\$ 20 million in extra-budgetary funding. Latterly most of my travel to Europe and the USA was paid by organisations seeking my inputs into meetings, training courses and conferences.

- 1993 to 1994** **Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00100 Rome, Italy**
- Position:** Chief Technical Adviser (Epidemiology) for commissioning the Philippine Animal Health Center, Bureau of Animal Industry, Manila, Philippines
- Responsibilities:** To commission and effect technical development of the Philippine Animal Health Center and its 45 veterinarians through training in laboratory technology, epidemiology and research management, introducing new technology and conducting disease studies with national staff; upgrading the technical performance of the National Animal Disease Diagnostic Laboratory and 14 Regional Animal Disease Diagnostic Laboratories, establishing an improved animal health information system; drafting appropriate legislation and regulations for the prevention and control of animal diseases; establishing reliable primary diagnosis for major diseases caused by all classes of pathogen; and, epidemiological research concentrated on foot-and-mouth disease, hog cholera, haemorrhagic septicaemia, brucellosis, tick-borne diseases, trypanosomosis (Surra), helminthoses and screw-worm in indigenous and exotic livestock.
- 1993** **UK Ministry of Agriculture Fisheries and Food, State Veterinary Service**
- Position:** Veterinary Officer responsible for statutory zoosanitary procedures as official veterinary surgeon at the Gatwick and Heathrow Airport Border Inspection Posts and bovine spongiform encephalopathy investigations.
- 1992** **Private veterinary practices**
- Position:** *Locum tenens* in mixed agricultural and companion animal veterinary practices.
- 1992** **Landell Mills and Associates of Bath, UK.**
- Position:** Veterinarian in a consultancy team preparing an African Development Bank Master Plan and Livestock Development Project for the Republic of Equatorial Guinea (6 weeks)
- 1989 to 1992** **GRM International Pty Ltd of Brisbane, Australia (World Bank)**
- Position:** Senior Veterinary Investigation Officer consultant and Team leader for the Ethiopian Fourth Livestock Development Project, specifically to establish an integrated Veterinary Epidemiology and Economics Unit and Central Disease Investigation Laboratory with a regional laboratory network.

- 1985 to 1989UK Ministry of Agriculture Fisheries and Food, MAFF Central Veterinary Laboratory, Weybridge, UK.**
- Position:** Senior Research Officer responsible for planning and execution of research into the pathogenesis, epidemiology and diagnosis of virus diseases, leading development of the Biotechnology Unit.
- 1984 to 1985 Australian Commonwealth Scientific and Industrial Research Organisation on secondment from MAFF, UK.**
- Position:** Senior Research Fellow at the Australian National Animal Health Laboratory, Geelong, Australia, working at the AFRC Animal Virus Research Institute, Pirbright Laboratory, UK.
- 1978 to 1984 UK Ministry of Agriculture Fisheries and Food, Central Veterinary Laboratory, Weybridge, UK.**
- Position:** Research Officer, then Senior Research Officer, responsible for planning and execution of research into the pathogenesis, epidemiology and diagnosis of virus diseases and providing consultancy services to the State Veterinary Service
- 1977 to 1978 UK Overseas Development Administration, HM Government**
- Position:** Principal Veterinary Research Officer at the National Veterinary Research Institute, Vom, Nigeria. responsible for development of disease investigation and laboratory diagnostic services
- 1974 to 1977 UK Overseas Development Administration, HM Government**
- Position:** Veterinary Investigation Officer based in Addis Ababa, Ethiopia responsible for organisation of a disease investigation and laboratory service for the Ethiopian Government; research into disease epidemiology; training of personnel in laboratory diagnosis and food microbiology
- 1973 to 1974 Ministry of Overseas Development, HM Government**
- Position:** Holder of Natural Resources Studentship to undertake a Master's degree course in Tropical Veterinary Science at the Centre for Tropical Veterinary Medicine, Royal (Dick) School of Veterinary Studies, Edinburgh University.
- 1972 to 1973 A Private Veterinary Practice in Warwickshire, UK**
- Position:** Veterinary Surgeon in mixed agricultural and companion animal veterinary practice
- 1970 to 1972 UK Crown Agents of HM Government and the Botswana Government.**
- Position:** Veterinary Officer and then Senior Veterinary Officer in the Botswana Veterinary Department responsible for organisation of district field veterinary services to control foot-and-mouth disease and other diseases by means of zoosanitary procedures and systematic vaccination campaigns; disease investigation; the management of stock trek routes, quarantine and AI stations; export health certification.

1969 to 1970

A Private Veterinary Practice in Norfolk, UK

Position:

Veterinary Surgeon in mixed agricultural and companion animal veterinary practice

ACADEMIC/PROFESSIONAL APPOINTMENTS

October 2007 2007 to date	Elected Junior Vice-President of the Veterinary Research Club, UK Member of Editorial Board of the Journal of Transboundary and Emerging Diseases
2004 to date 2001 to date	Member of the OIE <i>Ad Hoc</i> Group on Rinderpest Trainer for the Biennial USDA Foreign Animal Diseases Training Course held at the University of Wisconsin-Madison School of Veterinary Medicine, USA
2000 to 2007 2007	Secretary of the Global Rinderpest Eradication Programme Trainer for the USDA Foreign Animal Diseases Training Course held at Knoxville Tennessee
2006	External lecturer to postgraduate students and faculty at Tufts Cummings School of Veterinary Medicine, Boston, Grafton, USA
2004 to date 2003	Member of the OIE <i>Ad Hoc</i> Group on Rinderpest Member of WHO expert group on SARS animal infection
2003	Member of the DEFRA Statutory and Exotic Diseases Review with particular reference to research on foot-and-mouth disease
2003	Member of the working group on <i>Impact of interventional strategies on virus spread, disease and regulation</i> at the OIE/EU Third International Symposium on Bluetongue, Sicily, Italy
2001	Trainer in satellite broadcast course on Emergency Preparedness for Foreign Animal Diseases run by Federal Emergency Management Agency; Emmitsburg, Virginia, USA
2001	Member of the UK DEFRA Veterinary Laboratories Agency Science Audit - Statutory and Exotic Viruses Group
1994 to 1999	Member of Global Rinderpest Eradication Programme Secretariat.
1992	External lecturer to the MSc course in Veterinary Epidemiology and Economics at the Veterinary Epidemiology and Economics Research Unit, Reading University.
1992	External lecturer to a course in Laboratory Management at the Veterinary Epidemiology and Economics Research Unit, Reading University.
1991	Committee member of the Germ Plasm Workshop at the Second International Symposium on Bluetongue, African Horse Sickness and Related Orbiviruses held at the Office International des Epizooties in Paris from 17 to 21 June 1991.
1986 to 1989	Member of the Central Veterinary Laboratory Genetic Manipulation Safety Committee.
1984 to 1992	External lecturer to the MSc course in Animal Health at the Royal Veterinary College, London University.
1994 to 1989	External lecturer to the MSc course in Veterinary Microbiology at Surrey University.
1985 to 1989	
1985 to 1989 1985/6	External examiner to the MSc course in Tropical Veterinary Science at the Centre for Tropical Veterinary Medicine, Edinburgh University. Member of the UK Expert Panel on Bovine Tuberculosis.
1983 to 1984 1979 to 1983	Technical secretary to the Exotic Diseases Sub-committee of the Working Group on Animal Disease Research and Development in UK. Chairman of the Central Veterinary Laboratory Research Club. Member of the EEC Expert Committee on Classical Swine Fever.

PERSONAL REFERENCES

References are available on request.

PUBLICATIONS

1. **ROEDER, P.L.** (1974)
Repair of tracheal rupture. *Veterinary Record* 95, 473 (letter).
2. **ROEDER, P.L.** (1974)
A survey of the prevalence of Equid herpesvirus II infections. MSc dissertation, University of Edinburgh.
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The isolation of Morel's micrococcus from bovine lymph node lesions. *Ethiopian Veterinary Bulletin* 2, 18.
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Two new serotypes of *Pasteurella haemolytica* from sheep in Ethiopia. *Tropical Animal Health and Production* 11, 29-30.
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The prevalence of serotypes of *Pasteurella haemolytica* in Ethiopia. *Ethiopian Veterinary Bulletin* 4, 18-29.
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The effects of copper and cobalt treatment of cattle in the Ethiopian Rift Valley. *Tropical Animal Health and Production* 12, 63-68.
8. **ROEDER, P.L.** (1980)
Enzootic ataxia of lambs and kids in the Ethiopian Rift Valley. *Tropical Animal Health and Production* 12, 229-233.
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Persistence in tissues of Border disease virus antigen demonstrable by immunofluorescence. *Research in Veterinary Science* 29, 394.
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Salmonella in livestock and animal byproducts in Ethiopia. *Tropical Animal Health and Production* 13, 203-207.
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Bovine mucosal disease - a persistent viral infection. Proceedings of the VIIth International Symposium of the World Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases of Animals, Barcelona, Spain.
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Border disease virus infection of the newborn lamb. *British Veterinary Journal* 139, 129-136.
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Border disease: effect of the virus on the central nervous system of newborn lambs. *Journal of Comparative Pathology* 93, 243-249.
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Attempted reactivation of latent Bovid herpesvirus 1 infection in calves by infection with ruminant pestivirus. *Veterinary Microbiology* 8, 563-569.
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Hog Cholera Virus *In*: Geographical Distribution of Animal Virus Diseases, Ed. S. Odend'hal, Academic Press, New York. pp 223-224.
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Characteristics of a continuous suspension cell line (BL20) derived from a calf with sporadic bovine leucosis. Fifth International Symposium on Bovine Leukosis, Tubingen 1982. Ed. O.C. Straub, Commission of the European Communities, Luxembourg, Agriculture Series. pp 519-528.
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Mucosal disease of cattle: a late sequel to fetal infection. *Veterinary Record* 114, 309-313.
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Acute *Trypanosoma vivax* infection of Ethiopian cattle in the apparent absence of tse-tse. *Tropical Animal Health and Production* 16, 141-147.
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Mucosal disease of cattle. *Veterinary Record* 114, 411. (Letter)
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Border disease in Syria. *Tropical Animal Health and Production* 16, 225-226.
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Mucosal disease in cattle. *Veterinary Record* 115, 186. (Letter)

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Disease control strategies for bovine pestivirus. *Veterinary Record* 115, 525-526. (Letter)
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