

CURRICULUM VITAE

DATE: February 2013

1. BIOGRAPHICAL SKETCH

1.1 GENERAL INFORMATION

Surname	Swan								
First names	Gerald Edwin			ID Number	4909225054087				
Citizenship	South African			Title		Female		Male	x
Place of birth	East London			Date of birth	490922				
Population group	African		Coloured		Indian		White	x	Other (Please specify)
Department	Faculty of Veterinary Science			Position	Dean				
Direct Telephone	012 – 5298201			Direct Telefax	012 – 5298313				
E-mail	gerry.swan@up.ac.za								
Date of appointment	April 1985			Permanent full-time	x	Temporary full-time			

1.2 ACADEMIC QUALIFICATIONS OBTAINED

Degree/ Diploma	Field of study	Higher education institution	Year
BVSc	Veterinary	University of Pretoria	1973
BVSc(Hon)	Pharmacology and Toxicology	University of Pretoria	1985
MMedVet (Pharm et Tox)	Pharmacology and Toxicology	University of Pretoria	1988
PhD	Pharmacology	Potchefstroom University	1997

1.3 NON ACADEMIC TRAINING

Management	Allen Management; Self-management training course by CE engineering; UP management course; Disciplinary hearings
Technical	HPLC course offered by Beckman in 1992; Identification of Equine Internal parasites by Prof Richard Reinecke
Computer	DOS; Word/Excell/ Powerpoint; Wordperfect/ Quatro; Sigma Plot/Sigma Stat; WinNonlin

1.3 WORK EXPERIENCE TO DATE		
Name of employer	Capacity and/or type of work	Period
Dr William Jones	<i>Locum tenens</i> - mixed private practice, East London	Oct 1973 – January 1974
State Veterinary Service	State veterinarian	February 1974 – November 1974
Merck Sharp & Dohme	Veterinary Technical Advisor Manager International Animal Science Research Centre, South Africa	December 1975 – 1979 1979 – March 1985
University of Pretoria	Senior Lecturer in Pharmacology Coopers and Hoechst Animal Health Professor in Pharmacology and Toxicology Head Department of Pharmacology and Toxicology Head Department of Paraclinical Sciences Dean of the Faculty of Veterinary Science	April 1985 – 1988 1988 – 1993 1994 – 2001 2001 – 2005 2005 – current

2. TEACHING ACTIVITIES

2.1 Courses presented		
Course	Level	Self developed (Yes or No)
Veterinary Pharmacology for Pharmacists	4 th year	No
General Veterinary Pharmacology	3 rd year	Yes
Veterinary Pharmacology of Animal Scientists	4 th year	Yes
Veterinary Clinical Pharmacology for bovines, small stock and pigs	4 th year	Yes
Fundamentals of Pharmacology	Honours	Yes
Clinical Pharmacology dogs and cats	Honours	Yes
Clinical Pharmacology ruminants	Honours	Yes
Clinical Pharmacology equines	Honours	Yes
Clinical pharmacology wildlife	Honours	Yes
Veterinary Industrial Pharmacology	Masters	Yes
Clinical Pharmacology	Masters	Yes

3. TEACHING OUTPUTS

3.1 Educational publications and products
Veterinary Pharmacology for Animal Scientists: Study guide and notes
Fundamentals of Veterinary Pharmacology for veterinary undergraduates: Study guide and notes
Functional Pharmacology for veterinary undergraduates: Study guide and notes
Systemic Pharmacology for veterinary undergraduates: Study guide and notes
Chemotherapeutics for veterinary undergraduates: Study guide and notes
Fundamentals of Pharmacology for post graduates: Study guide and notes
Clinical Pharmacology for dogs and cats; ruminants; equines; and wildlife: Study guides
Veterinary Industrial Pharmacology: Development of course based MSc

4. OTHER TEACHING CONTRIBUTIONS

4.1 Participation in national and international teaching associations, bodies, committees

Undergraduate BVSc Curriculum Committee (1987-1989).
 Education Committee of SAVA (Chairman) (1995-1999)
 Education Committee of SA Veterinary Council (2008 current)
 Global Accreditation of Veterinary Training workgroup (2008 current)

4.2 Visits to local and overseas universities as guest professor or lecturer in regard to teaching

Visiting professor in Pharmacology, School of Veterinary Science, Louisiana State University - August and September 1994.

5. RESEARCH ACTIVITIES

5.1 Former supervision or co-supervision

Name of student	Degree/Title of dissertation/thesis and date	Supervisor	Co-supervisor(s)	Duration of studies (years)
EGM Mogoia	PhD (1999) Effects of environmental temperature on pharmacokinetics of, and clinical response to xylazine in goats	Prof F Stegman	Prof G E Swan	4
Angeh J E	PhD (2005) Isolation and characterization of antibacterial compounds present in members of <i>Combretum</i> section, <i>Hypocrateroptis</i>	Prof J N Eloff	Prof G E Swan	4
Chicoto H	PhD (2006)	Prof J N Eloff	Prof G E Swan	2
SKF Quant	MMedVet(Fer) (1992) The pharmacology of medetomidine in combination with ketamine hydrochloride in African lion (<i>Panthero leo</i>)	Prof Meltzer	Prof GE Swan	3
CJ Botha	MMedVet (Toxicology) (1993) Comparative efficacy of D-penicillamine and trientine as copper chelators in sheep .	Prof TW Naude	Prof GE Swan	4
B Gummow	MMedVet (Pharmacology) (1993) A bioequivalence evaluation of two commercial diminazene aceturate formulations administered intramuscularly to cattle	Prof GE Swan	None	3
Heidi Schroeder-Neitz	MMedVet (Medicine) (1994) The efficacy of topical treatment of pyotraumatic dermatitis with an antimicrobial/anti-inflammatory combination drug in dogs	Prof G E Swan	None	4

P Buss	MMedVet (Fer) (2000) The pharmacodynamics of etorphine, and its combination with xylazine or azaperone in Boer goats (<i>Capra hircus</i>)	Prof Meltzer	Prof G E Swan	4
R Gehring	MMedVet (Pharmacology) (2002) Veterinary drug supply to subsistence and emerging farming communities in the Madikwe District, North West Province, South Africa	Prof G E Swan	None	2
T Shakespear	MMedVet (Medicine) The effect of furosemide administered intra-venously on certain blood and urine parameters in normal sheep	Prof S van Amstel	Prof G E Swan	4
D Miller	MMedVet (Medicine) (2003) The Pharmacokinetics of diminazene aceturate after intramuscular and intravenous administration in the healthy dog	Prof GE Swan	Prof Lobetti & Dr Jacobson	5
DE Dennie	MPharm (1991) The attitude of dairy farmers and veterinarians in South Africa towards recombinant bovine somatotropin (rBST) in cows	Prof van Drummelen	Prof GE Swan	3
D Grobler	MSc (1996) An investigation of copper poisoning in ungulates in the Kruger National Park	Prof GE Swan	Prof CJ Botha	3
G de Jager	MSc (1998) The use of an isolated perfused mammalian heart to quantify the inotropic and arrhythmogenic activity of selected cardiac glycosides	Mr M F Perkin	Prof GE Swan	2
Deon vd Merwe	MSc (1999) Use of ethnoveterinary medicinal plants in cattle by Setswana-speaking people in the Madikwe area of the North West Province of South Africa	Prof GE Swan	Prof CJ Botha	2
H Nel	MSc (2001) The establishment and standardization of a veterinary antimicrobial resistance surveillance programme in South Africa	Prof M v Vuuren	Prof GE Swan	3
Vinny Naidoo	MSc (2004) Screening of selected plants used in ethnoveterinary medicine for treatment of tick borne diseases in South Africa, for antimicrobial and antiparasitic activity	Prof GE Swan	Prof Eloff	2
F Kettner	MMedVet(Med) 2006 A study of the population pharmacokinetics of diminazene in dogs naturally infected with <i>Babesia canis</i>	Prof GE Swan	Dr R Gehring	4

L Riato	MSc 2007 Evaluation of faecal glucocorticoid monitoring as a non-invasive assessment of stress in captive white rhinoceros (<i>Ceratotherium simum</i>) after ACTH stimulation.	Dr J Chamunorwa	Prof G E Swan	3
E Bizimenyera	PhD 2007 Isolation and characterization of antimicrobial compounds from <i>Peltephorum africanum</i>	Prof GE Swan	Prof Eloff	4
V Naidoo	PhD 2007 Diclophenac in Gyps: A molecular mechanism of toxicity	Prof G E Swan	None	3
T Snyman	MMedVet(Pharm) 2008 Comparative pharmacokinetics of two oxytetracycline injectable formulations in cattle	Prof GE Swan	Dr V Naidoo	5
L Bester	MMedVet (Anaesthesiology) Intravascular pharmacokinetics of propofol in cats	Prof GE Swan	Prof F Stegman	7
H Napier-Bax	MMedVet(Pharm) A survey of the quantities of antimicrobials consumed in animals in South Africa with specific reference to food animals	Prof GE Swan	Prof M v Vuuren	6

5.2 Current students

Name of student	Degree and year of first registration	Project title	Supervisor	Co-supervisor

5.3 Obtaining research funds

Origin of research funds	Title of research project or programme	Time	Money allocated (R)
NUFU (International funding)	The use of biomarkers as an indication of pollution in selected aquatic ecosystems in E and S Africa	5 y	R 8.5 mil*
Bayer	Pharmacokinetics and pharmacodynamics of xylazine in goats	2 y	R 27 000
Bayer/Bomac (Contract)	Bioequivalence of flunixin meglumine paste and injectable solution in horses	1 y	R 130 050
Bomac (NZ) (Contract)	Comparison of the pharmacokinetics and pharmacodynamics of a long-acting and conventional formulation of flunixin meglumine in cattle.	1 y	R 75 242
Jockey Club of South Africa	Pharmacokinetic studies of anti-inflammatory and antimicrobial drugs in horses.	1 y	R 50 000
Logos Agvet (Contract)	Bioequivalence studies on rafoxanide, closantel and diminazene	2 y	R 145 613
FRD	Optimisation of anthelmintic efficacy and safety in ruminants.	3 y	R 430 000
NRF IKS	Evaluation of the efficacy and safety of ethnoveterinary medicines	37	R 379 982
May and Stanley Smith Charitable trust fund	Pharmacovigilance of veterinary medicines	3 y	R 312 000
Thrip	Bioequivalence study of two diminazene formulations in sheep	1 y	R 18 000

Sugar Industry (Contract)	Molasses	2y	R 500 000
Royal Society for Protection of Birds	Toxicity of diclofenac and safety of meloxicam in African White Backed Vultures	2 y	R 139 168
Maybaker (Contract)	Effect of dimetridazole of rumen function	1 y	R 10 000
Intervet (Contract)	Bioequivalence of diminazene RTU in dogs and cattle	1 y	R 35 000
Ajimoto Co. Tokyo	Efficacy of Curdlan for the treatment of Cerebral and Red Babesia	2 y	R 25 000
AVCSA	Antimicrobial resistance survey	2 y	R 30 000
Total			R 10 807 055


* Collaborative programme between Veterinary Faculties in Uganda, Tanzania, Mozambique, Zambia, Zimbabwe and South Africa

6. RESEARCH OUTPUTS

6.1 Publications in peer-reviewed or refereed journals

1. Schröder J & Swan GE 1979 Epizootiological and economical considerations in the anthelmintic treatment of cattle. *Rhodesian Veterinary Journal* 10: 11-16
2. Swan G E & Schröder J 1981 A safety trial with rafoxanide in sheep. *Journal of the South African Veterinary Association* 52: 123-125
3. Schröder J & Swan GE 1981 Ivermectin as an antiparasitic agent in horses. *Journal of the South African Veterinary Association* 53: 127-128.
4. Swan G E, Soll M D, Carmichael I H & Schröder J 1983 Efficacy of ivermectin against *Parafilaria bovicola* in Ponies. *Veterinary Record* 113: 260.
doi:10.1136/vr.113.12.260
contents page of issue : <http://veterinaryrecord.bmj.com/content/113/12.toc>
5. Swan G E & Coetzer J A W 1983 Efficacy of ivermectin against migrating stages of *Strongylus vulgaris* in ponies. *South African Journal of Science* 79: 46.
6. Swan G E & Harvey R G 1983 Persistent anthelmintic effect of ivermectin in cattle. *Journal of the South African Veterinary Association* 54: 294-250.
7. Swan G E, Schröder J, Carmichael I H, Louw J P, Harvey R G & Penderis I 1984 Efficacy of ivermectin against internal parasites in sheep. *Journal of the South African Veterinary Association* 55: 165-169.
8. Soll M D, Swan G E, Schröder J & Bezuidenhout J D 1984 Efficacy of ivermectin against the sand tampan (*Ornithodoros savignii*). *Veterinary Record* 114: 70.
9. Swan G E & Gross S J 1985 The efficacy of ivermectin against induced gastrointestinal nematode infections in goats. *Veterinary Record* 117: 147-149.
10. Swan G E, Schröder J & Louw J P 1985 Efficacy of ivermectin against gastrointestinal nematodes in cattle in South Africa. *Journal of the South African Veterinary Association* 56: 21-23.
11. Schröder J, Swan G E, Soll M D & Hotson I K 1985 Efficacy of ivermectin against ectoparasites of cattle in South Africa. *Journal of the South African Veterinary Association* 56: 31-35.
12. Schröder J, Swan G E, Barrick R A & Pulliam J D 1986 Effect of ivermectin on the reproductive potential of breeding rams. *Journal of the South African Veterinary Association* 57: 211-224.
13. Soll M D, Carmichael I H, Swan G E & Sherer H 1987 Control of cattle mange in Southern Africa using ivermectin. *Tropical Animal Health* 19: 93-102.
14. Mc Crindle C M E, Ebedes H & Swan G E 1989 The use of long-acting neuroleptics, perphenazine enanthate and pipothiazine palmitate in two horses. *Journal of the South African Veterinary Association* 60: 208-209.
15. Swan G E 1991 Non-Steroidal anti-inflammatory drugs in domestic animals: I. Their classification, mechanism of action and Pharmacological effects. *Journal of the South African Veterinary Association* 62: 33-38.
16. Swan G E, Shakespear A, Mülders M S G, Naudé T W & Groenewald H T 1991 The Safety of

dimetridazole alone and in conjunction with oxytetracycline in Hereford crossbred steers. *Journal of the South African Veterinary Association* 62: 55-59.

17. Van Heerden J, Swan G E, Dauth J, Burroughs R E J & Dreyer M J 1991 Sedation and immobilization of wild dogs *Lycaon pictus* using medetomidine or a medetomidine-ketamine hydrochloride combination. *South African Journal of Wildlife Research* 21: 88-93.
18. Swan G E, Soll M D & Cross S J 1991 Efficacy of Ivermectin against *Parafilaria bovicola* and lesion resolution in cattle. *Veterinary Parasitology* 40: 267-272.
19. Botha C J, Naudé T W, Swan G E, Ashton M M, Van der Wateren J F, 1991 Suspected cycad (*Cycas revoluta*) intoxication in dogs. *Journal of the South African Veterinary Association* 62: 189-190.
20. Soll M D, Carmichael I H, Swan G E, Abrey A 1992 Treatment and control of sheep scab (*Psoroptes ovis*) with ivermectin under field conditions in South Africa. *Veterinary Record* 130: 72-574.
21. Taylor J H, Botha C J, Swan G E, Mülders M S G & Grobler M J 1992 Tiletamine hydrochloride in combination with zolazepam hydrochloride as an anaesthetic agent in sheep. *Journal of the South African Veterinary Association* 63: 63-65.
22. Swan G E & Mülders M S G 1993 Pharmacokinetics of rafoxanide in suckling and weaned lambs following oral administration. *Journal of the South African Veterinary Association* 64: 67-70.
23. Janssen D L, Swan G E, Raath J P, McJames S W, Allen J L, de Vos V, Williams K E, Anderson J M & Stanley T H 1993 Immobilization and physiological effects of the narcotic A3080 in impala (*Aepyceros melampus*). *Journal of Zoo and Wildlife Medicine* 24: 11-18.
24. Botha C J, Naudé T W, Swan G E, Dauth J, Dreyer M J & Williams M C 1993 The cupruritic effect of chelators following copper loading in sheep. *Veterinary and Human Toxicology* 35: 409-413.
25. Gummow B, Swan G E & Du Preez J L 1994. A bioequivalence and pharmacokinetic evaluation of two commercial diminazene aceturate formulations administered intramuscularly to cattle. *Onderstepoort Journal of Veterinary Research* 61: 317 - 326.
26. Botha C J, Swan G E, Minnaar P P 1995 Pharmacokinetics of ammonium tetrathiomolydate following intravenous administration in sheep. *Journal of the South African Veterinary Association* 66: 6-10
27. Swan G E, Short C R, Tubbesing U H 1995 Non-Steroidal Anti-inflammatory Drugs in Domestic Animals: II Disposition and Clinical Indications. *Journal of the South African Veterinary Association* 66: 35-41
28. Jacobson L S, Swan G E 1995 Supportive treatment of babesiosis. *Journal of the South African Veterinary Association* 66: 95-105
29. Gummow B, Du Preez J L, Swan G E 1995 Paired-ion extraction and high-performance liquid chromatographic determination of diminazene in cattle plasma: a modified method. *Onderstepoort Journal of Veterinary Research* 62: 1 – 4
30. Swan G E, Guthrie A J, Mülders M S G, Killeen V M, Nurton J P, Short C R, van den Berg 1995 Single and multiple dose pharmacokinetics of gentamicin administered intravenously and intramuscularly in adult conditioned thoroughbred mares. *Journal of the South African Veterinary Association* 66: 151-156
31. Swan G E, Schultz R Anitra, Kellerman T S, Mülders Maria S G, Maartens B P, van der Walt 1995 *In vivo* effects of a novel calcium antagonist (R56865) against induced epoxyscillirosidin and tulip poisoning in sheep. *Onderstepoort Journal of Veterinary Research* 62: 163-166
32. Swan G E, Botha C J, Taylor J H, Mülders Maria S G, Minnaar P P, Kloeck A 1995 Differences in the oral bioavailability of three rafoxanide formulations in sheep. *Journal of the South African Veterinary Association* 66: 197-201
33. Guthrie A J, Short C R, Swan G E, Mülders M S G, Killeen V M, Nurton J P 1996 Characterization of a sterile soft-tissue inflammation model in Thoroughbred horses. *Journal of Veterinary Pharmacology and Therapeutics* 19: 44 – 49
34. Shroeder H, Swan G E, Berry W L, Pearson J 1996 Efficacy of a topical antimicrobial - anti-inflammatory combination in the treatment of pyotraumatic dermatitis in dogs. *Veterinary Dermatology* 7: 163 – 170
35. Venter P A, Naudé R J, Oelofsen W, Swan G E 1997 Ovine Cardiac Na,K-ATPase: Isolation by means of selective solubilization in Lubrol and the effect of 1  epoxyscillirosidin on this

enzyme. *International Journal of Cell Biology* 29: 1103-1112.

36. Shakespeare A S, Reyers F, van Amstel S R, Swan G E, van den Berg J S 1998 Treatment of heartwater: potential adverse effects of furosemide administration on certain homeostatic parameters in normal sheep. *Journal of the South African Veterinary Association* 69: 129 – 136
37. Swan G E, Koeleman H A, Steyn H S, Mülders M S G 1999 Intravascular plasma disposition and salivary secretion of closantel and rafoxanide in sheep. *Journal of the South African Veterinary Association* 70: 75-79
38. Swan G E, Koeleman H A, Steyn H S, Mülders M S G 1999 Relative bioavailability of rafoxanide following intraruminal and intra-abomasal administration in sheep. *Journal of the South African Veterinary Association* 70: 71-74
39. Swan G E 1999 The pharmacology of halogenated salicylanilides and their anthelmintic use in animals. *Journal of the South African Veterinary Association* 70: 61-70
40. Grobler D G, Swan G E 1999 Copper poisoning in the Kruger National Park: Field investigation in wild ruminants. *Onderstepoort Journal of Veterinary Research* 66: 157 – 168
41. Grobler DG, Swan G E 1999 Attempted induction of chronic copper poisoning in boma confined impala. *Onderstepoort Journal of Veterinary Research* 66: 169 – 174
42. Minnaar PP, Swan GE, McCrindle RI, de Beer WHJ, Naudé TW 2000 A high-performance liquid chromatographic method for the determination of monofluoroacetate. *Journal of Chromatographic Science* 38: 16 – 20
43. Penzhorn B L, Lewis B D, Lopez-Rebollar L M, Swan G E 2000 Screening of five drugs for efficacy against *Babesia felis* in experimentally infected cats. *Journal of the South African Veterinary Association* 71: 53-57
44. Swan G E, Oliver D, Van Rensburg J, Steyn H S, Mülders M S G 2000 Stability and partitioning of closantel and rafoxanide in ruminal fluid of sheep. *Onderstepoort Journal of Veterinary Research* 67: 97-103
45. Swan G E, Groenewald H 2000 Morphological changes associated with the development of the rumino-reticulum in growing lambs fed different rations. *Onderstepoort Journal of Veterinary Research* 67: 105-114.
46. Mogoia E G M, Stegmann G F, Guthrie A J, Swan G E 2000 Clinical, cardiovascular and haemocytological effects of xylazine in goats after acute exposure to different environmental temperature and humidity conditions. *Journal of the South African Veterinary Association* 71: 153 – 159
47. Cordel C, Swan G E, Mülders M S G, Bertschinger H J 2001 Pharmacokinetics of intravenous imipramine hydrochloride in cattle. *Journal of Veterinary Pharmacology and Therapeutics* 24: 143 – 145
48. van der Merwe D, Swan GE, Botha CJ 2001 Use of ethnoveterinary medicinal plants in cattle by Setwana-speaking people in the Madikwe area of the North West Province of South Africa. *Journal of the South African Veterinary Association* 72: 189 – 196.
49. Gehring R, Swan GE, Sykes RD 2002 Supply of veterinary medicinal products to an emerging farming community in the North West Province of South Africa. *Journal of the South African Veterinary Association* 73: 185 – 189.
50. Botha CJ, Rundberger T, Swan GE, Mulders MSG, Flaoyen A 2003 Toxicokinetics of cotyledocide following intravenous administration to sheep. *Journal of the South African Veterinary Association* 74: 7 -10
51. Naidoo V, Katerere D R, Swan G E, Eloff J N 2004 Pretreatment of *Urginea sanguinea* bulbs used in ethnoveterinary medicine influences chemical and biological activity. *Pharmaceutical Biology* 42 (7): 529 – 533
52. Nel H, van Vuuren M, Swan G E 2004 Towards the establishment and standardization of a veterinary antimicrobial resistance surveillance and monitoring programme in South Africa. *Onderstepoort Journal of Veterinary Research* 71: 239 –246
53. Naidoo V, Zwegarth E, Eloff J N, Swan G E 2005 Identification of anti-babesial activity for four ethnoveterinary plants in vitro. *Veterinary Parasitology* 130: 9 - 1355.
54. Anderson MD, Piper SE, Swan GE 2005 Non-steroidal anti-inflammatory drug use in South Africa and possible effects on vultures, *South African Journal of Science* 101: 112 –116

55. Bizimenyera S E, Swan GE, Chikoto H and Eloff JN 2005 Rationale for using *Peltophorum africanum* (Fabaceae) extracts in veterinary medicine. *Journal of the South African Veterinary Association* 76: 54 – 58
56. Miller DM, Swan GE, Lobetti RG, Jacobson LS The pharmacokinetics of diminazene aceturate after intramuscular administration in healthy dogs *Journal of the South African Veterinary Association* 76(3): 1 – 5
57. Swan G E, Cuthbert R, Quevedo M, Green R, Pain D, Bartels P, Cunningham A, Duncan N, Oaks J L, Parry-Jones J, Taggart M, Verdoorn G, Wolter K 2006 Toxicity of diclofenac to *Gyps* vultures. *Biology Letters* 2, 1-4
58. Swan G E, Naidoo V, Cuthbert R, Green R, Pain D, Swarup D, Prakash V, Taggart M, Bekker L, Das D, Diekmann J, Diekmann M, Kilian E, Meharg A, Patra R C, Saini M, Wolter K 2006 Removing the threat of diclofenac to critically endangered asian vultures. *Plos Biology* 4: 1 – 6
59. Katsu Y, Myburgh J, Kohno S, Swan G E, Guilette L J, Iguchi T 2006 Molecular cloning of estrogen receptor α of the Nile crocodile. *Comparative Biochemistry and Physiology. Part A* 143: 340 – 346
60. Bizimenyera E.S., Githiori J B, Swan G E, Eloff J N 2006 *In vitro* ovicidal and larvicidal activity of the leaf, bark and Root extracts of *Peltophorum africanum* Sond. (Fabaceae) on *Haemonchus contortus*. *Journal of Animal and Veterinary Advances* 5(8): 608 – 614
61. Bizimenyera E.S., Githiori J B, Eloff J N, Swan G E 2006 *In vitro* activity of *Peltophorum africanum* Sond. (Fabaceae) extracts on egg hatching and larval development of the parasitic nematode *Trichostrongylus colubriformis*. *Veterinary Parasitology* 142: 336 – 343
62. Cuthbert R., Pain D.J., Green R.E., Swan G., Swarup D. 2006 Comparative toxicity studies of NSAIDs in birds: A criticism of Reddy at al.. *Environmental Toxicology and Pharmacology* 23: 254-255
63. Bizimenyera E S, Aderogba A M, Eloff J N and Swan E G, 2007. Potential of neuroprotective antioxidant-based therapeutics from *Peltophorum africanum*. *African Journal of Traditional, Complementary and Alternative Medicines*, 4: 99-106
64. Naidoo V, Duncan N, Bekker L, Swan G 2007 Validating the domestic fowl as a model to investigate the pathophysiology of diclofenac in *Gyps* vultures. *Environmental Toxicology and Pharmacology* 3: 260 - 266
65. Bizimenyera ES, Meyer S, Naidoo V, Eloff JN and Swan GE 2008 Efficacy of *Peltophorum africanum* Sond. (Fabaceae) Extracts on *Haemonchus contortus* and *Trichostrongylus colubriformis* in Sheep *Journal of Animal and Veterinary Advances* 7 (4): 364-371
66. Pain DJ, Bowden A, Cunningham A, Cuthbert R, Das D, Gilbert M, Jakati R, Jhala Y, Khan A, Naidoo V, Oaks J, Parry-Jones J, Prakash V, Rahmani A, Ranada S Sagar Barai H, Ram Senacha Ki, Saravanan S, Shahm N, Swan G, Swarup D, Taggart M, Watson R, Virani M, Wolter K, Green R 2008 The race to prevent the extinction of the South Asian Vultures. *Bird Conservation International* 18: S30 – S48
67. Naidoo V, Wolter K, Chromaty D, Bartels P, Bekker L, McGaw L, Taggart M A, Swan GE 2008 The pharmacokinetics of meloxicam in vultures. *Veterinary Pharmacology and Therapeutics* 31: 128 – 134
68. Naidoo V, Diekmann M, Wolter K, Swan GE 2008 Establishment of selected baseline blood chemistry and haematological parameters in captive and wild-caught White-Backed vultures (*Gyps africanus*). *Journal of Wildlife Diseases* 44: 649 – 654
69. Snyman M G, Naidoo V, DeBruin C, Swan GE 2008 Is the current dose of a conventional oxytetracycline formulation adequate for the management of infections in sheep? *Journal of the South African Veterinary Association* 79(4): 171 - 174
70. Naidoo V, Swan GE 2009 Diclofenac toxicity in *Gyps* vulture is associated with decreased uric acid excretion and not renal portal vasoconstriction. *Comparative Biochemistry and Physiology. Part C* 149: 269 – 274
71. V Naidoo,MSG Mülders,GE Swan 2009 *Journal of the South African Veterinary Association* 80: 205-219 Onderstepoort *Journal of Veterinary Research*
72. Masgoret-Steyn S,CJ Botha,JG Myburgh,TW Naudé,L Prozesky,V Naidoo,JH van Wyk,EJ Pool,GE Swan 2009 Molasses as a possible cause of an "endocrine disruptive syndrome" in calves 76: 209 - 225
73. Swan G E, Coetzer J A W, Terblanche H M 2009 Integration of issues of global animal health, public health and tropical animal health in the veterinary education curriculum: a South

- African/African perspective. *OIE Scientific and Technical Reviews Vol. 28(2)* 727-738
74. SWAN G E, KRIEK NPJ 2009 Veterinary Education in Africa: Current and Future Perspectives. *Onderstepoort Journal of Veterinary Research* 76: 105 – 114
 75. Naidoo V, Zwiygarth E, Swan GE Identification of anti-richettsial activity in vitro. *Onderstepoort Journal of Veterinary Research* In press
 76. Henton M, Eager H, Swan GE van Vuuren M 2011 Part IV. Antibiotic management and resistance in livestock production. *South African Journal of Medicine* 101(8) 583-587
 77. Hayley Eagar, Gerry Swan, Moritz van Vuuren 2012 A survey of antimicrobial usage in animals in animals in South Africa with specific reference to food animals *JSAVA* 83 (1) 8

6.2 Books and/or chapters in books

1. Penzhorn, B.L. and G.E. Swan, 1993. Coccidiosis. (Ed.) Howard J.L., Current Veterinary Therapy 3. Food Animal Practice, W.B. Saunders Company, Philadelphia, pg. 599.2.
2. Swan, G.E. 1993. Drugs used for the immobilization, capture and translocation of wild animals. (Ed.) McKenzie A.A. The Capture and Care Manual: Capture, Care, Accommodation and Transportation of Wild African Animals. CTP Book Printers, pg. 1.
3. Swan G E Editor of Index of Veterinary Specialities (IVS).

6.3 Published full-length conference papers/keynote addresses

International

1. Benz G W, Barth D, Brokken E S, Picton J & Swan G E 1983. Insecticidal activities of ivermectin in cattle and swine. Proceedings of Livestock Insects Workshop, New Mexico State University, Las Cruces, New Mexico
2. Carmichael I H, Swan G E, Soll M D, Hotson I K 1983 Efficacy of ivermectin against nematodes in sheep. Veterinary Congress Perth. Australia 08/25/83 - 08/26/83.
3. Schindler P, Badiola C, Bride A, Preston J, Swan G E 1984 Clinical evaluation of rafoxanide injectable in sheep. Proceedings of Parasitology 4th European Multi Colloquim. Izmir, Turkey.
4. Soll M D, Carmichael I H, Swan, G E, Gross S J 1986 The control of African multihost ticks with sustained release of ivermectin in cattle. *Icopa VI Handbook*, 232.
5. Soll M D, Carmichael I H, Swan G E, Butler R W 1986 Ivermectin for the control of itch mite (*Psorergates ovis*) of sheep. *Icopa Handbook*, 232.
6. Janssen D L, Allen J L, Raath J P, de Vos V, Swan G E, Jessup D 1991 Field trials with A3080 in wild animals. Proceedings of the annual meeting of the American Association of Zoo Veterinarians, Calgary, Canada
7. Guthrie A J, Short C R, Swan G E, Mülders M S G, Killeen V M, Nurton J P 1994 Characterization of a soft-tissue inflammation model in *Thoroughbred horses*. *Sixth International Congress of the European Association for Veterinary Pharmacology and Toxicology*, Edinburgh, Scotland, August 7-11, p. 163.
8. Short C R, Guthrie A J, Swan G E, Mülders M S G, Killeen V M, Nurton J P 1994 The effect of ketoprofen on a soft tissue inflammation model in *Thoroughbred horses*. *Sixth International*

Congress of the European Association for Veterinary Pharmacology and Toxicology, Edinburgh, Skotland, Augustus 7-11, p. 151.

9. Swan G E, Guthrie A J, Mülders M S G, Killeen V M, Nurton J P, Short C R, van der Berg J 1994 Distribution of gentamicin into a soft tissue chamber implanted subcutaneously in adult Thoroughbred horses following multiple intravenous and intramuscular administration. *Sixth International Congress of the European Association of Pharmacology and Toxicology*, Edinburgh, Skotland, Augustus 7-11 p.23.
10. Swan G E, Mülders M S G, Steyn H S 1997 The effect of rumino-reticulum development on intravascular rafoxanide disposition in growing lambs fed different rations. *Proceedings of the Seventh International Congress of the European Association of Pharmacology and Toxicology*, Madrid, Spain, July 6-10, p.25.
11. Swan G E International Bioavailability and Bioequivalence Symposium. Academy of Pharmaceutical Sciences, Potchefstroom 2001
12. E S Bizimenyera* a, b, Eloff J N a and Swan G E a The potential of antioxidant-based therapeutics from *Peltophorum africanum* in treatment of neurodegenerative diseases. 1st International Neuroscience Conference, Owerri, Nigeria, 9-13 July 2006 *J Environ Neurosci Biomed* 2007; Vol.1(1):41-79
13. Naidoo V, Swan G, Guthbert R, Green R, Pain D, Swarrup D, Prakash V, Taggart M, Bekker L, Das D, Diekmann J, Killian E, Meharg A, Patra RC, Saini M, Wolter K and Bartels P (2006) Could meloxicam be the saviour of the Asian white-backed vulture? *Proceedings of the 17th Conference of the African Association of Zoos and Aquaria*: 29-35.

Local conferences, workshops and symposia

1. Swan G E 1987 The efficacy of anthelmintics in ruminants as influenced by factors affecting their absorption and disposition. Proceedings, Worm Resistance Workshop. NIV/VRI Onderstepoort.
2. Swan G E, Olivier G, Mülders M S G. & van Amstel S R 1988 The effect of injection site (intramuscular or subcutaneous) on the bioavailability of oxytetracycline given to sheep. Programme and Summaries 5th Faculty Day, Faculty of Veterinary Science, U.P.
3. Swan, G.E. 1989. The use of antimicrobials in the foal. Proceedings Equine Practitioners group. Congress February.
4. Swan, G.E. 1989 The pharmacodynamic effects of major neuroleptic drugs used in veterinary science. SAVA Wildlife group Symposium Proceedings.
5. Swan G.E., Shakespear A., Mülders M.S.G. & Minnaar P.P. 1990 The safety of dimetridazole alone or in combination with oxytetracycline. Programme and Summaries 7th Faculty Day, Faculty of Veterinary Science, U.P.
6. Swan, G.E., Shakespear, A., Mülders M.S.G. & Minnaar P.P. (1990) The safety of dimetridazole alone or in combination with oxytetracycline. Biennial SAVA National Congress, August 22-24, Congress abstracts pg. 28.
7. Swan, G.E., Mülders M.S.G. (1990) Changes in the pharmacokinetics of rafoxanide in growing lambs. Biennial SAVA National Congress, August 22-24, Congress abstracts pg. 30.
8. Swan, G.E., Mülders M.S.G. (1990) Changes in the pharmacokinetics of rafoxanide in growing lambs. South African Pharmacological Society Annual congress, October 11-12, Congress abstracts pg. 9.
9. Swan, G.E., van Heerden, J., Burroughs R.E.J., Dauth J. & Dreyer M.J. (1990) Sedative-Analgesic action and cardiopulmonary effects of the α -agonist Medetomidine in Wild dogs. Neurosciences symposium, October 1990. Congress abstracts, Poster no. 17.
10. Swan, G.E., Botha C.J. (1991) Cardiovascular drugs used in horses. Equine Cardiology Continuing Education Course for Equine Practitioners, 11 April.
11. Botha, C.J., Naudé, T.W., Swan, G.E., Ashton, M.M., van der Wateren J.F (1991) Suspected cycad (*Cycas revoluta*) intoxication in dogs. Poster 8th Faculty Day, Faculty of Veterinary Science, University of Pretoria.
12. Swan, G.E., Veldman A.M, Schlebusch, J. Folb P.I. (1992) Bioequivalence evaluation of

- registration applications in South Africa under Act 101/1967: Common pitfalls and reasons for registration failures. Drug Registration Symposium, The Academy of Pharmaceutical Sciences, CSIR Conference Centre, 25 March 1992.
13. Botha, C.J., Naudé, T.W., Swan, G.E. Comparative efficacy of d-penicillamine and trientine as copper chelators in sheep. *Research Programme, 11th Faculty Day, September 30, 1994, p.16.*
 14. Guthrie A J, Short C R, Swan G E, Mülders M S G, Killeen V M, Nurton J P 1994 The effect of ketoprofen on a soft-tissue inflammation model in Thoroughbred horses. *Research Programme, 11th Faculty Day, September 30, 1994, p. 10.*
 15. Guthrie, A.J., Short, C.J., Swan, G.E., Mülders, M.S.G., Killeen, V.M. Nurton, J.P. Characterization of a soft tissue model in Thoroughbred horses, *28th Annual Congress of the SA Research Programme, 11th Faculty Day, September 30, 1994, p. 38.*
 16. Guthrie, A.J., Swan, G.E., Nurton, J.P. Gouws, J. Distribution of ceftiofur into a tissue chamber implanted subcutaneously in adult Thoroughbred horses following multiple dose intravenous and intramuscular administration. *Research Programme, 11th Faculty Day, September 30, 1994, p. 38. Research Programme, 11th Faculty Day, September 30, 1994, p. 38. Research Programme, 11th Faculty Day,*
 17. Swan, G.E., Veterinary Drug Registration and Control in South Africa. *Livestock, Health and Production group of the SA Veterinary Association Congress, June 13-16, 1994.*
 18. Swan, G.E., Sources of variation in the efficacy and safety of anthelmintics in ruminants. *Livestock, Health and Production group, Golden Gate, June 13-16, 1994.*
 19. Swan, G.E. Veterinary Drugs: Use and Residues. *Third International Congress of CHASA, Midrand, July 31 - August 4, 1994, p. 26.*
 20. Swan, G.E., The use and control of narcotic and psychotropic drugs in veterinary medicine. *United Nations Drug Control Programme Symposium, Windhoek, Namibia, October 28-30, 1994.*
 21. Swan, G.E., Guthrie, A.J., Short, C.R., Mülders, M.S.G., Nurton, J.P., Killeen, V.M. Comparison of stereospecific pharmacokinetics of ketoprofen in conditioned and unconditioned Thoroughbred mares. *Research Programme, 11th Faculty Day, September 30, 1994, p.11.*
 22. Swan, G.E., Jacobson, L.S., Taylor, J.H. Antibabesials: Current and Future Perspectives. *19th World Congress of the Small Animal Veterinary Association, Durban, October 26-28, 1994, p. 765.*
 23. Swan, G.E., Sykes, R.D., Schlebusch, J. Veterinary drug registration in South Africa: current and future perspectives. *Proceedings of the Sixth International Congress of the European Association of Pharmacology and Toxicology, Edinburgh, Skotland, August 7-11, 1994, p. 69.*
 24. Swan, GE Pharmacology refresher course. *Namibian Annual Veterinary Meeting, 1998*
 25. Swan G E 1999 Global, Continental, Country health concerns on the use of veterinary products in animals. Post Graduate symposium, Department of Community Health, University of Pretoria, 25 March
 26. Swan G E, Gehring R 2002 General perspectives on the monitoring of antimicrobial usage in South Africa. Veterinary & Paraveterinary congress 2002, Sandton Convention Centre 23 – 26 July 2002
Gehring R, Swan GE 2002 General guidelines for the prudent use of antimicrobials in veterinary medicine. Veterinary & Paraveterinary congress 2002, Sandton Convention Centre 23 – 26 July 2002
 27. Schoeman J, Gehring R, Swan GE Clinical application of prudent use guidelines in small animals, with references to specific conditions in different organ systems. Veterinary & Paraveterinary congress 2002, Sandton Convention Centre 23 – 26 July 2002
 28. Swan GE General perspectives on the control and use of antimicrobial drugs in animals in South Africa, Antimicrobial Resistance Conference organised under auspices of the Medicines Control Council in South Africa, October 2003, Durban
 29. Swan G E Drug residues in milk and milk products. IDF/FAO/OIE International Symposium on Dairy safety & hygiene, Cape Town, 2-5 March 2004
 30. Swan G E Non-steroidal anti-inflammatory drugs – risk to vultures. Workshop of Vulture Study Group of EWT, Kimberly, April 2004
 31. E S BIZIMENYERA, SWAN G E and ELOFF J N (27th-30th July 2004). Is there rationale for using *Peltophorum africanum* extracts in veterinary medicine? South African Veterinary and

- Paraveterinary Congress and Expo 2004, pg 81. Cape Town.
32. E S BIZIMENYERA, SWAN G E, GITHIORI J B and ELOFF J N (18th-22nd April 2005). Ethnomedical leads as tools in neuroscience. Psychiatry and neuroscience in Africa, pg 27. Cape Town.
 33. E BIZIMENYERA, J N ELOFF, G E SWAN 2004 Justification of the ethnoveterinary use of *Peltophorum africanum* for animal infections (Indigenous Plant Use Forum, Clanwilliam)
 34. V NAIDOO 2004 Bioassays (Onderstepoort Veterinary Institute African Ethnoveterinary Conference, Dikhololo, South Africa)
 35. ANGEH JE, SWAN GE, ELOFF JN, HUANG X, SATTTLER I, 2004. Bioassay-guided isolation of pentacyclic triterpenoids from *Combretum imberbe*. Indigenous Plant Forum (IPUF), Clanwilliam (South Africa)
 36. ANGEH JE, GE SWAN GE, ELOFF JN, HUANG S, SATTTLER I, 2004. Novel biologically active triterpenes from *Combretum imberbe* and *Combretum padoides*. Faculty day, Faculty of Veterinary Science, University of Pretoria.
 37. CHIKOTO H., ELOFF JN, SWAN GE. 2004 Antibacterial activity of a by-product from the enrichment of antioxidant compounds from grape seeds. Indigenous Plant Use Forum Conference
 38. SWAN GE, NAIDOO V, DUNCAN N, WOLTER K, VERDOORN G, BARTELLS P, PAIN DJ 2005 Toxicity of diclofenac sodium to African White-Backed Vultures (*Gyps africanus*) Proceedings of the South African Pharmacology Society 39th Congress, Vineyard Hotel Cape Town p 36
 39. SWAN G E, KRIEK NPJ 2008 Veterinary Education in Africa: Current and Future Perspectives. Pan African Congress, Pretoria September 2008
 40. Mweene A, Swan G E 2009 Veterinary Education in Southern Africa: Matching supply and demand. Evolving Veterinary Education for a safer world OIE congress, 12 – 14 October, Paris, Frans

6.6 Technical reports

1. Bioequivalence guidelines for the registration of generic veterinary medicines and stock remedies in South Africa Swan GE 1993
2. Evaluation of Certain Veterinary Drug Residues in Food. 58th report of the Joint FAO/WHO Expert Committee on Food Additives, WHO Technical Report Series 911
3. Technical Guidelines for the Responsible and Prudent Use of Antimicrobials in Veterinary Medicine in South Africa Swan G E & Gehring R (Ed), 2003
4. Evaluation of Certain Veterinary Drug Residues in Food. 60th report of the Joint FAO/WHO Expert Committee on Food Additives, WHO Technical Report Series 918
5. Neomycin monograph. Residues of some veterinary drugs in animals and foods. FAO Food and Nutrition Paper 41/14. Reeves P T, Swan G E 2003: 53 - 63
6. Veterinary Drug Control Management for the Practicing Veterinarian in South Africa. Swan GE, Sykes RD, Banoo S, Naidoo V (Ed), 2004
7. Bioequivalence technical evaluation reports on behalf of the Medicines Control Council: 1996 (39); 1997 (25); 1998 (63); 1999 (46); 2000 (37); 2001 (40); 2002 (34); 2003 (13); and 2004 (9)
8. Melengestrol Acetate. Residues of some veterinary drugs in animals and foods. FAO Food and Nutrition Paper 41/16. Reeves P T, Swan G E 2004: 45 – 53.
9. Evaluation of Certain Veterinary Drug Residues in Food. 60th report of the Joint FAO/WHO Expert Committee on Food Additives, WHO Technical Report Series 925

7. OTHER SCHOLARLY RESEARCH-BASED CONTRIBUTIONS

7.1 Participation in conferences, workshops and short courses – specify type of contribution

7.1.1 National

1. Worm Resistance Workshop, NIV/VRI, Onderstepoort (1987)
2. SAVA biennial congress, Pietermaritzburg (1988)
3. Eastern Cape and Karroo Branch of the SAVA congress, East London (1988)
4. Equine Practitioners Group Congress, Warmbaths (1989)
5. SAVA Wildlife group Symposium, Pretoria (1989)
6. Biennial SAVA National Congress, Pretoria, August 22-24 (1990)
7. South African Pharmacological Society Annual Congress, Stellenbosch October 11-12 (1990)
8. Neurosciences symposium, Stellenbosch, October (1990)
9. Lowveld branch of the SAVA congress, Badplaas (1990)
10. Bufadienolide glycoside symposium, Potchefstroom University, Potchefstroom, (1991)
11. Drug Registration Symposium, The Academy of Pharmaceutical Sciences, CSIR Conference Centre, Pretoria, March (1992)
12. Pharmaceutical Society of South Africa congress, Potchefstroom (1993)
13. SAVA Livestock, Health and Production Group Congress, Golden Gate, June 13-16 (1994)
14. 28 Annual Congress of the South African Pharmacological Society, Cape Town (1994)
15. 11th Scientific Congress of the South African Association for Laboratory Animal Science, Esselen Park (1994)
16. African congress on environmental pollution food and residues: the interrelationships. Kruger National Park (1994)
17. EPG SAVA Congress, Golden Gate (1995)
18. Canine Babesiosis symposium, Onderstepoort (1995)
19. Western Cape SAVA, Cape Town (1998)
20. LHPG SAVACongress, Christiana (1999)
21. OFS and Northern Congress (1999)
22. PVS SAVA, Pretoria (1999)
23. SAVA Biennial congress, Durban 19 - 23 September 2000
24. Veterinary & Paraveterinary congress 2002, Sandton Convention Centre 23 – 26 July 2002
25. Antimicrobial Resistance Conference organised under auspices of the Medicines Control Council in South Africa, October 2003, Durban
26. Workshop of Vulture Study Group of EWT, Kimberly, April 2004
27. Workshop of Vulture study Unit, de Wildt February 9, 2005. Presented paper on Meloxicam safety studies in African White-Backed vultures
28. NUFU workshop on a Collaborative Research PhD programme in Environmental Toxicology and Zoonotic Diseases: a South-North Veterinary Network in Livingston, Zambia 17 – 19 February, 2005
29. Wildlife Chemical Immobilisation Course presented by the Faculty of Veterinary Science, University of Pretoria in collaboration with Afrivet Wildlife Veterinary Consultants 6 – 12 March 2005. Organiser and lecturer
30. Basis of Environmental Health (EHM 870), School of Health Systems and Public Health, Faculty of Health Sciences, University of Pretoria 16 – 20 May 2005. Invited lecturer on Environmental Toxicology
31. Veterinary Pharmaceutical Registration and Control, Presented by the Department of Paraclinical Sciences, University of Pretoria 30 May – 1 June 2005. Presented 4 lectures.
32. BA/BE issues and significance of Good Clinical Practice in Veterinary Research. South Africa Association of Pharmacists in Industry workshop on the Licencing, cGMP and cGCP compliance for the Industry – Implementing MCC requirements 31 August 2005 Midrand.

33. Opening Address. Veterinary and Paraveterinary Congress, Durban May 2006
34. Plenary address Current developments and challenges that face the faculty. Veterinary and Paraveterinary Congress, Sun City July 2008

7.2.2 International

1. O.I.E Training course in registration and control of Veterinary Drugs. Harara, Zimbabwe (1993)
2. Sixth International Conference Congress of the European Association of Veterinary Pharmacology and Toxicology (EAVPT) - Edinburgh, Scotland (1994)
3. Third International Congress of CHASA - Midrand, South Africa (1994)
4. 19th World Congress of the Small Animal Veterinary Association - Durban, South Africa (1994)
5. United Nations Drug Control Programme Symposium, Windhoek, Namibia, October 28-30, (1994)
6. Seventh International Technical Consultation for Veterinary Drug Registration (ITCVDR) - Paris, France (1995)
7. Workshop on the harmonisation of Veterinary Product Registration - Brussels, Belgium (1996)
8. Eighth ITCVDR - Prague, Czech Republic (1997)
9. Seventh EAVPT congress - Madrid, Spain (1997)
10. 16th International Conference of the World Association for the Advancement of Veterinary Parasitology - Sun City, South Africa (1997)
11. Namibian Annual Veterinary Meeting, Otjiwa Game Ranch, Otjiwarongo (1998)
12. 26th World Veterinary Association Congress and 24th World Small Animal Veterinary Association Congress, Lyon, France (1999)
13. 1st Conference on the International Harmonisation of Veterinary Medical Products. Brussels, Belgium November (1999)
14. 2nd SEAVDRAC meeting in Nairobi, Kenya (2000)
15. Combined Australian Veterinary Association and 3rd Pan Pacific Veterinary Congress, 13 to 18 May 2001 in Melbourne, Australia
16. International Bioequivalence Symposium
17. 5th International Sheep Veterinary Congress 21- 26 January 2001
18. WHO consultation on monitoring of antimicrobial utilization. Oslo, Norway 10 – 13 September 2001
19. 58th JECFA meeting. Rome, Italy 20 – 27th February 2002
20. 60th JECFA meeting, Geneva, Switzerland, 5 – 12th February 2003
21. FAO/IAEA workshop. Strengthening capacities for implementation of Codex standards and International Codes, Vienna, 2003 (Invited speaker and consultant)
22. 62nd JECFA meeting, Rome, Italy, 4 – 12th February 2004
23. IDF/FAO/OIE International Symposium on Dairy safety & hygiene, Cape Town, 2-5 March 2004
24. SADC and International Regulatory Harmonisation in a Risk-Based cGMP 21st Century symposium (SIRHS) 2005 organised by University of Limpopo, American Association of Pharmaceutical Sciences and International Pharmaceutical Federation. 25 – 27 May 2005, CSIR Pretoria. Invited speaker on MCC experiences with data verification and GCP inspection in BA and BE studies and Bioavailability and Bioequivalence issue in the SADC region
25. 70th JECFA meeting, Geneva, Switzerland, 20 – 29th October 2008 (Appointed as Chair of the FAO group) and Vice Chair of the Meeting

7.2 Teamwork and collaboration with others:

Department of Veterinary Tropical Diseases, Faculty of Veterinary Science University of Pretoria.

Equine Research Centre, Faculty of Veterinary Science University of Pretoria.

Toxicology Section, Onderstepoort Research Centre.

Department of Pharmacology, Wits Medical School, University of the Witwatersrand, Johannesburg.

Pharmacy Faculty, University of Port Elizabeth

Pharmacy Faculty and Biometric Services, Potchefstroom University.

Department of Physiology, Pharmacology and Toxicology, Veterinary School, Louisiana State University, Baton Rouge, Louisiana, USA.

NUFU North-South collaboration between the Norwegian Veterinary School and Norwegian Veterinary Institute as North partners and the Veterinary Faculties of Mozambique, South Africa, Tanzania, Uganda, Zambia and Zimbabwe as South partners.

Royal Society for Protection of Birds

Developed MOUs with Veterinary Schools of Utrecht University, Oslo, UC Davis, Kansas State, Eduardo Mondlane and Sokoine University of Agriculture

7.3 Membership in national and international bodies

Registered as veterinarian with the South African Veterinary Council

Fellow of the American College of Veterinary Pharmacology and Therapeutics

Member of the South African Veterinary Association

- National Elected member to Federal Council - 1994 to 2002
- Executive Committee - 1994 to 2001
- Vice President - 1998 - 1999
- President in 1999 – 2001

Member of South African Pharmacology Society

Member of European Pharmacological and Toxicological Society

Member of the Academic Society of South Africa

7.4 Visits to local and overseas universities or research institutes as guest professor or researcher

Guest professor in Pharmacology, School of Veterinary Science, Louisiana State University - August and September 1994.

8. MANAGEMENT AND ADMINISTRATIVE DUTIES

Academic

Acting Head for two years and Head of the Department of Pharmacology & Toxicology, University of Pretoria from 1994 to 2001. Head of the Department of Paraclinical Sciences including the disciplines Pathology, Pharmacology, Toxicology and Veterinary Public Health from 2001 to 2005. Dean of the Veterinary Faculty since 2005.

Research

Manager of MSD (Pty) Ltd Veterinary Research Laboratory for 6 years; Acting Associated Director of R&D, International Animal Science Research MSD (Pty) Ltd South Africa for 1 year; Chairman of management subcommittee of the Onderstepoort Veterinary Animal Research Unit since 1994.

University and Faculty Committees

Pregraduate Curriculum Committee (1987-1989).

Veterinary Research Committee - 1985* (Chairman 1996 - 1999). One of the founding members of the first Research Committee of the Faculty. During this time new guidelines and procedures for research at the faculty were developed and a research methodology course initiated.

Ethics Committee (1988 -1992). As one of the founding members of the first ethics committee of the faculty assisted in developing and establishing the original guidelines and procedures.

Onderstepoort Veterinary Academic Research Unit (OVARU) Management Committee (Chairman), Faculty of Veterinary Science, UP (1989 -1994). Responsible for the original planning of the construction and equipping of OVARU.

Structures subcommittee (Chairman) for new amalgamated veterinary faculty (1996 - 1998). Responsible for the development of the new departmental structures of the new national veterinary faculty.

Faculty Appointments committee and Joint Implementation Committee for new amalgamated veterinary faculty (1997 - 1999)

Member of Executive Committee of Faculty (1999*)

Chairperson of Faculty Laboratories Monitoring Committee (2000*)

University

Central research committee (1992 -1995)

UP Virodene disciplinary investigation team (1997)

UP Research facilities investigation committee (convenor) (1998)

Chairperson of Pretoria Biomedical Research Centre Transfer Committee (2001*)

Acting Director of the University of Pretoria Biomedical Research Center

Chairperson of Vetex (2005 current), Transformation Committee (2008 current) and Post Graduate Committee (2009) and Member of Faculty Research Committee

Member of University Post Graduate Committee

Other

Officer in the South African Civil Force from 1968 through 1985. Served as Company Commander and Second in Command of the Battalion 1st Regiment Northern Transvaal

9. COMMUNITY SERVICE OR PROFESSIONAL SKILLS

10.1 Outreach projects

Adverse drugs reaction monitoring of veterinary products in animals on behalf of the Medicines Control Council for veterinary medicines and National Department of Agriculture for stock remedies. Spontaneous reporting of adverse drug reactions by veterinarians and users.

10.2 Professional service performed

10.2.1 Appointment Expert Committees

National

Medicine Control Council (MCC) (1987^{*}) (Reappointed in 2004) (Ministerial appointment)
Interdepartmental Advisory Committee (INDAC) for Chemicals (1998 - 2003) (Ministerial appointment)
Technical Advisor to Registrar of Act 36/47 (1995^{*}) (Ministerial appointment)
Animal Use and Care Committee of the South African National Parks (1999^{*})
Agricultural Veterinary Chemical Association of South Africa (AVCASA) veterinary subcommittee (1979 - 1983).
AVCASA and Government Liaison Committee (1985 -2005)
Veterinary Clinical Committee, Act 101/65 (1985^{*}) (Chairman since 1989).
Scheduling Committee, Act 101/1965 (1986 - 2005)
Bioequivalence Committee (Human medicines), Act 101/1965 (1988^{*}).
MCC Policy Committee, Act 101/ 1965 (1991 - 1993)
Veterinary Products Policy committee, Act 101/1965 (1995^{*})
Antibiotic Workgroup (1996^{*}) (Chairman 1996 – 2000)
SanParks Board (2009 current)

International

Southern and East Africa Veterinary Drug Registration Application Committee (SEAVDRAC) (1996^{*})
Technical Consultant to the O.I.E to Tanzania on the registration and control of veterinary medicines for the period 23 February to 4 March 1998. Submitted an extensive report on the deficiencies and recommendations for veterinary medicines registration in Tanzania.
Nominated, as African representative for FAO at JECFA in 1998^{*}
Organising committee of the 9th ITCVDR (1998 - 1999)
National Consultant for CODEX (2000^{*})
Temporary Consultant for WHO on monitoring of antimicrobial usage in animals, Oslo, Norway 10-17 September 2001.
Expert evaluator to 58th, 60th and 62nd FAO/WHO Joint expert committee on Food Additives (JECFA) meeting on drug residues in animals
Appointed expert on JECFA for period 2003 through 2007.
Appointed member of the FAO group of JECFA for residues in animal products from 2008^{*}
^{*}Current

10.3 Clinical service

(e.g full detail of rank/level of joint appointment, level of clinical service rendering responsibilities, university administration and academic responsibilities, CPD involvement, clinical trials involvement, etc.)

Continuous Education:

- Bioequivalence training for technical staff. Presented on behalf of the WHO for regulatory staff of the Medicines Regulatory Authority of South Africa June – October 2002 (Course leader and presenter)
- Short course on Veterinary remedy discovery and development. August 2003 (presenter)
- Certificate course in Veterinary Drug Registration and Control. February 2002 (presenter)
- Wildlife Chemical immobilization course. Presented by the Faculty of Veterinary Science, University of Pretoria in collaboration with Afrivet Wildlife Veterinary Consultants. 12 – 17 October 2004; 6 – 12 March 2005 (Course leader and presenter)
- Antibiotic course. July – August 2004 (presenter)
- Veterinary product marketing and technical support. August – September, 2004. (Presenter)
- Bioequivalence training for regulatory staff. November, 2004 - 2007. (Presenter)

Clinical Trials:

Principle investigator of 5 bioequivalence testing of generic veterinary medicines conducted in compliance with Good Clinical Practices

Nominated by the Medicines Regulatory Authority of South Africa to conduct technical inspections of 4 Clinical Research Organisations in India involved in the conduct of bioequivalence studies of generic medicines for human that have been submitted for registration in South Africa during 3 - 14 January, 2004.

10.4 Involvement with other universities/scientific institutions

Served as external examiner for undergraduate and post graduate Veterinary Pharmacology at MEDUNSA from 1986 - 1995, 1998; undergraduate Dentistry Pharmacology, Faculty of Dentistry, University of Pretoria (1990); pregraduate Pharmacology and Toxicology at Veterinary Faculties, Universities of Zambia (1995), Zimbabwe (1995 - 1998) and Nairobi, Kenya (1996 - 1998); two MSc dissertations at University of Potchefstroom, one at University of Port Elizabeth and one at University of Witwatersrand.

Medicine Control Council (MCC) (1987*) (Reappointed in 2004) (Ministerial appointment)

Clinical Trial committee, Act 101/1965 (1998*); Responsible for risk analysis of medical products

Member of the Animal Ethics committee of the Potchefstroom University (2001*)

*Current

10.5 Referee duties

Serve(d) as reviewer for Journal of the South Veterinary Association, Onderstepoort Veterinary Journal, International Journal of Pharmacology and Therapeutics, South African Journal of Science, South African Journal of Animal Science, South African Journal of Wildlife and International Journal of Small Ruminants

Served as external reviewer of two MSc dissertations at University of Potchefstroom, one at University of Port Elizabeth and one at University of Witwatersrand.

Reviewed two articles of Small Ruminant Research, one article of the JSAVA during 2005

10. AWARDS AND SCIENTIFIC/SCHOLARLY RECOGNITION

11.1 Evaluation status as scientist/scholar

School Academic and Sport Honours.

Farmers Weekly medal for the best agricultural practical scholar 1967.

Merit performance awards of Faculty of Veterinary Science in 1990, 1991 & 1992 (This award has since been discontinued).

Special merit award in recognition of services to the veterinary profession 1999

C-rating as Researcher with the South African National Research Council in 2001 and again in 2008

11.2 Research awards and prizes

Research Award of the SAVA 1999

One of three nominees as Researcher of the Year for the Veterinary Faculty in 2002

Boswell award of the SAVA in recognition of eminent service to the veterinary profession through the South African Veterinary Association in 2004

Sasol Vulture Conservationist of 2005. Birds of Prey Working Group, Endangered Wildlife Trust.

11.3 Teaching awards and prizes

Lecturer of the Year - Veterinary Nurses (DCA1) 1987.

Lecturer of the Year of BVSc students 1988 and winner of the Coopers Prize money.

G E Swan

Date