

## BIOGRAPHICAL DETAILS

### REINECKE RICHARD KARL, Prof

Known for Parasitology (Helminthology, especially Nematodes)

**BORN:** 7 May 1924, Johannesburg.

**DIED:** 5 October 1993 in Rio de Janeiro, Brazil [coronary / heart attack while crossing a dry river bed via a 'concrete' pipe], repatriated to South Africa and buried in Johannesburg.

**PARENTS' NAMES:** Leopold born Ceres, South Africa, 5 June 1884 & Lilian May née Goodfellow born Fayetteville, USA, 1884. Wedding: 27 October 1911 in Onondaga, New York, USA.

**SIBLINGS:** 4 brothers: Daniel Conradie, born in Ottawa, Ontario Canada, 1912; Leopold Dirk, born in Ottawa, Ontario, Canada, 1919; Pieter Stoneman and one other).

**FATHER'S OCCUPATION:** Geologist (Ph.D.)

**SPOUSE'S NAME:** 1<sup>st</sup> wife - Dora (née?)  
2<sup>nd</sup> wife - Norah Denise, née Donnelly

**YEAR OF MARRIAGE:**

**NUMBER OF CHILDREN:** 4 (Pierre; Bonnie; "Titch" possibly for Richard and Davey possibly for either Dave or David)

### EDUCATION

Matriculated at King Edward School, Johannesburg, 1936.

BVSc: Veterinary Science degree, Onderstepoort, University of Pretoria, 1946.

DVSc: Veterinary Science, University of Pretoria, 1958.

MMedVet: Medical Veterinary Science (Parasitology), University of Pretoria, 1977.

DSc (Zoology), Potchefstroom University for Christian Higher Education, 1980.

**RETIRED:** June 1986 (aged 62)

### MAIN FUNCTIONS & CAREER

Private practice Cape Town and Krugersdorp 1947- 1954 [nearly 8 years].

Joined section Helminthology, Veterinary Research Institute, Onderstepoort as State Veterinarian during 1954.

Senior State Veterinarian at Helminthology, Veterinary Research Institute, Onderstepoort.

(DATE?).

Researcher at Onderstepoort Veterinary Research Institute (VRI, Onderstepoort), 1954 – 1973

(DATE?)

Head of Helminthology Section, Veterinary Research Institute (DATE?)

Main focus of research was the incidence and distribution of helminths, especially nematodes, in South Africa.

Research at Armoedsvlakte, Vryburg, north-western Cape (North West Province), to investigate severe parasitic helminth infestations in calves (circa 1954).

Tested the efficacy of new anthelmintics in the early 1960s and improved the methods by which these compounds were tested.

Presented several short courses to veterinarians in the employ of pharmaceutical companies as well as state veterinarians, some from afar as Zimbabwe in the taxonomy and collections of helminths while conducting seasonal incidence surveys of helminths.

Compiled a laboratory manual which is still relevant today.

Conducted surveys on the epidemiology of nematode parasites of ruminants in Natal and the southern, eastern and Karoo regions of the Cape Province (KwaZulu-Natal, Eastern Cape & Western Cape).

In the early 1970s he did research on improving the anthelmintic efficacy testing and together with Prof Groeneveld developed the non-parametric method for testing the efficacy of an anthelmintic, which precluded subjective evaluation and predicted the efficacy of an anthelmintic on a flock basis.

Senior lecturer in Helminthology, Department of Parasitology, Faculty of Veterinary Science, University of Pretoria, Onderstepoort, 1961 – 1968/72.

Professor and Head of the Department of Parasitology, Faculty of Veterinary Science, University of Pretoria, Onderstepoort, 1973-1986.

Technical advisor to the Registrar for Stock Remedies registered in terms of Act 36 of 1947. (DATE?)

Tutored under-graduate veterinary students, Faculty of Veterinary Science, University of Pretoria, Onderstepoort.

Directed the research of post-graduate students – numbering 8 Doctoral and 4 Masters candidates in 1986.

Wrote the textbook “Veterinary Helminthology”, published in 1983 as the text books on veterinary helminthology was not suitable for the veterinary students at Onderstepoort.

In 1986 he was appointed *Professor Emeritus* at the University of Pretoria as a full time researcher for 3 years to continue his work.

After his retirement he moved to Hermanus and started research on the seasonal abundance of helminths of domestic ruminants in the Overberg region, southern Cape Province (Western Cape) with a grant from the FRD and assistance from the University of Pretoria, resulting in 17 publications, circa 1987 – 1991.

Towards the end of 1991 he was invited as a “Visiting Professor” to the, Federal Rural University of Rio de Janeiro, Veterinary Science UFRRJ, Seropédica, Brazil to research the neamtodes of cattle and to assist with tutoring helminthology, which he did until his death in 1993. He was also advisor to Dr Marcelo Abidu-Figueiredo for his Master’s degree.

## COMMITTEE AND SOCIETY MEMBERSHIPS

Parasitological Society of Southern Africa (PARSA) 1971 – Founding Member

Parasitological Society of Southern Africa (PARSA) 1971 – 1993 Member (Was he still a member when he died?)

Parasitological Society of Southern Africa (PARSA) Vice-president 1971 – 1975

Parasitological Society of Southern Africa (PARSA) President 1975 – 1978/79

## CONTRIBUTIONS

Developed methods to diagnose infestations and techniques to test the effectiveness of drugs used to control helminths.

Developed standardised methods for the use of internal parasites (worm) larvae for efficiency testing in anthelmintic trials, especially in the sixties when new drugs came onto the market and in later years when resistance against the drugs developed

He insisted on the generation of local efficacy data for anthelmintic registration purposes and was thus involved in the establishment of a number research farms by various pharmaceutical companies.

Developed a vaccine using the relatively non-pathogenic *Trichostrongylus axei* to protect sheep against the highly pathogenic *Haemonchus contortus* – unfortunately this vaccine is not a commercially viable proposition.

Consultant and expert in helminthology for national and international pharmaceuticals involved in the development of new anthelmintics.

During his incumbency as president of PARSA the society focused on improving the level parasitological education at various institutions.

## DISTINCTIONS & HOMAGES

He was comprehensively funded by the Foundation for Research Development of the CSIR for research on the B-scale, the only person at the Faculty of Veterinary Science, University of Pretoria to be funded at such a high rating in the 1980s.

Recipient of the Gold Medal of the SAVA for 1986 for his “Considerable and sustained contribution to veterinary research and his investment in the future the profession through his undergraduate teaching programme and post-graduate guidance”.

Elsdon-Dew medal in recognition for his research contributions from Parasitological Society of Southern Africa in 1991.

Honoured as one of the 100 Researchers of the University of Pretoria, South Africa in 2008.

His research on the improvement of anthelmintic efficacy testing led to his recognition as an expert in this field by the World Association for the Advancement of Veterinary Parasitology and his subsequent appointment by them to serve on an international panel

## PUBLICATIONS

Author and co-author of more than 90 scientific publications.

### Articles

Abidu-Figueiredo, M, Barwinski, A, Carvalho, B & **Reinecke RK**. 2001. Comparação entre técnicas coproparasitológicas para a contagem de ovos de nematóides gastrintestinais de caprinos. *Ciência Animal*. 11(2): 137-139.

Abidu-Figueiredo, M, Carvalho-de Souza, B, Maio, FG, Barbosa, CG & **Reinecke RK**. 2005. Comparação entre técnicas coproparasitológicas para a contagem de ovos de nematóides gastrintestinais de búfalos. *Revista Científica Eletrônica de Medicina Veterinária, Garça*. 5: 1-8.

Abidu M, **Reinecke RK**, de Mattos Jr DG & Schiavo PA. 2000. Comparison of coproparasitological techniques for the counting of gastrointestinal helminth ova in sheep. *Revista Brasileira de Ciência Veterinária* 7(1): 22-24.

Abidu, M, **Reinecke, RK**, Maio, FG, Grisi, L & Schiavo PA. 1999. Comparação entre a técnica de Mc Master e do Filtro de Visser para a contagem de ovos de helmintos gastrintestinais de equinos. *Parasitologia al Dia*. 23 (3-4): 118-120.

Abidu Figueiredo, M, **Reinecke, KR** & Serre Freire. 2008. Comparação entre três técnicas coproparasitológicas para a contagem de ovos de nematóides gastrintestinais dos suínos. *Revista de Ciência & Tecnologia*. 8(1): 7-11.

Abidu-Figueiredo M, Sandes Pires M, Sanvria A & **Reinecke KR**. 2011. Diagnóstico de larvas de primeiro estágio de nematóides gastrintestinais de bezerros leiteiros do município de Paty do Alferes-RJ. (Diagnosis of first stage larvae of gastrointestinal nematodes of dairy calves in the city of Paty do Alferes-RJ). *Semina: Ciências Agrárias*, 32 (1): 313-318.

De Villiers, IL, Liversidge, R & **Reinecke, RK**. 1985. Arthropods and helminths in springbok (*Antidorcas marsupialis*) at Benfontein, Kimberley. *Onderstepoort Journal of Veterinary Research*. 52: 1-11.

Groeneveld, H, **Reinecke RK** & Weiss, KE. 1969. A statistical method for comparing worm burdens in two groups of sheep. *Onderstepoort Journal of Veterinary Research*. 36(2): 285-298.

Horak, Ivan, Biggs, H.C. & **Reinecke, RK**. 1984. Arthropod parasites of Hartmann's mountain zebra, *Equus zebra hartmannae*, in South West Africa/Namibia. *Onderstepoort Journal of Veterinary Research*. 51: 183-7.

Krecek, Rosina, Malan, Francois, **Reinecke, Richard** & Vos, Valerius. 1987. Nematode parasites from Burchell's zebras in South Africa. *Journal of Wildlife Diseases*. 23: 404-11.

De Villiers, I.L, Liversidge, R & **Reinecke, RK**. 1985. Arthropods and helminths in springbok (*Antidorcas marsupialis*) at Benfontein, Kimberley. *Onderstepoort Journal of Veterinary Research*. 52: 1-11.

Krecek, Rosina C, **Reinecke, RK** & Biggs, HC. 1984. Studies on the parasites of zebras. III. Nematodes of the mountain zebra from the farm "Kelpie" and the Namib-Naukluft Park, South West Africa/Namibia. *The Onderstepoort Journal of Veterinary Research*. 50: 283-290.

Krecek, Rosina C, **Reinecke, RK** & de Vos, V. 1982. Seasonal incidence of helminths in Burchell's zebra. *Onderstepoort Journal of Veterinary Research*. 49: 127-130.

Krecek, Rosina C, **Reinecke, RK** & Horak I. 1989. Internal parasites of horses on mixed grassveld and bushveld in Transvaal, Republic of South Africa. *Veterinary Parasitology*. 34:135-143.

Krecek, Rosina, **Reinecke, RK**, Kriek, N, Horak, I & Malan FS. 1994. Helminth parasites of Cape Mountain Zebras from Cape Province, South Africa. *Journal of Wildlife Diseases*. 30 (2): 270-280.

Krecek, Rosina, **Reinecke, RK** & Malan, FS. 1987. Studies on the parasites of zebras. V. Nematodes of the Burchell's and Hartmann's mountain zebras from the Etosha National Park, South West Africa/Namibia. *The Onderstepoort Journal of Veterinary Research*. 54: 71-78.

Louw JP & **Reinecke RK**, 1990. Overberg Research Projects. VIII. The productivity of Merino ewes subjected to different internal parasite control programmes in the winter rainfall region of South Africa. *Journal of the South African Veterinary*. 61 (4): 163-167.

Louw, J & **Reinecke, R**. 1991. Overberg research projects. X. The epidemiology of helminths in ewes and lambs in the southern Cape Province during autumn. *Journal of the South African Veterinary Association*. 62 (3): 101-3.

Louw, J & **Reinecke, R**. 1991. Overberg Research Projects. XIII. A comparison of the efficacy of albendazole drench and an albendazole slow-release capsule against nematode parasites in sheep. *Journal of the South African Veterinary Association*, 62(4): 182-183.

Louw, J & **Reinecke, R**. 1992. Overberg Research Projects. XII. The efficacy of an albendazole slow-release capsule in the control of nematode parasites in sheep. *Journal of the South African Veterinary Association*, 63(2): 54-58

Louw, J & **Reinecke, R**. 1993. Overberg research projects. XV. The efficacy of different anthelmintics against field strains of nematode parasites of sheep in the southern Cape Province. *Journal of the South African Veterinary Association*. 64: 71-5.

Malan, FS, de Vos, V, **Reinecke, RK** & Pletcher, JM. 1982. Studies on *Strongylus asini*. I. Experimental infestations of equines. *Onderstepoort Journal of Veterinary Research*. 49: 151-154.

Malan, F & **Reinecke, R**. 1981. Anthelmintic efficiency of fenbendazole in equines. *Journal of the South African Veterinary Association*. 51: 223-6.

Malan, F, **Reinecke, R** & Krecek, Rosina. 1982. Anthelmintic efficacy of fenbendazole in donkeys assessed by the modified non-parametric method. *Journal of the South African Veterinary Association*. 53: 185-8.

Malan, F, **Reinecke, R** & Roper, N. 1982. The seasonal incidence of helminth parasites of cattle in the eastern Transvaal Lowveld. *Journal of the South African Veterinary Association*. 53. 179-84.

Malan, F & **Reinecke, R** & Scialdo [Krecek], R, 1981. Recovery of helminths postmortem from equines. I. Parasites in arteries, subperitoneum, liver and lungs. *Onderstepoort Journal of Veterinary Research*. 48: 141-3.

Malan, F, **Reinecke, R** & Scialdo [Krecek], R. 1981. Recovery of helminths postmortem from equines. II. Helminths and larvae of gasterophilus in the gastro-intestinal tract and oestrids from the sinuses. *Onderstepoort Journal of Veterinary Research*. 48: 145-7.

Malan, F, **Reinecke, R** & Scialdo [Krecek], R. 1981. Anthelmintic efficacy fenbendazole paste in equines. *Journal of the South African Veterinary Association*. 52: 127-30.

Malan, F, Vos, V, **Reinecke, R** & Pletcher, J. 1982. Studies on *Strongylus asini*. I. Experimental infestation of equines. *Onderstepoort Journal of Veterinary Research*. 49: 151-4.

**Reinecke, RK**. 1960. A field study of some nematode parasites of bovines in a semi- arid area with special reference to their biology and possible methods of prophylaxis. *Onderstepoort Journal of Veterinary Research*, 28: 365-464.

**Reinecke RK**. 1960. The role of infested dung in the transmission of nematode parasites of cattle. *Journal of the South African Veterinary Association*, 31 (1): 45-54.

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**Reinecke RK**. 1968. An anthelmintic test for larval stages of sheep in nematodes. *Onderstepoort Journal of Veterinary Research*. 35(1): 287-298

**Reinecke, RK**. 1970. The epizootiology of an outbreak of bilharziasis in Zululand. *Central African Journal of Medicine*. 16 (Supl to No. 7): 10-12.

**Reinecke, RK**. 1972. An anthelmintic test for gastro-intestinal nematodes of cattle. *Onderstepoort Journal of Veterinary Research*. 39(3): 153-178.

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**Reinecke, RK**. 1990. Overberg Research Projects. IX. First stage larvae per gram (L1p.g.) of faeces; efficient method of diagnosing nematode parasites of sheep ante mortem. *Onderstepoort Journal of Veterinary Research*. 57: 277-280.

**Reinecke RK.** 1994. Parasitic control in intensive vs. non-intensive systems – ruminants. *Veterinary Parasitology*. 54(1): 49-67.

**Reinecke, R.** Brückner, C & de Villiers, I, 1980. Studies on *Haemonchus contortus*. III. Titration of *Trichostrongylus axei* and expulsion of *H. contortus*. *Onderstepoort Journal of Veterinary Research*. 47: 35-44.

**Reinecke, R & Brückner, C & de Villiers.** 1981. A residual anthelmintic 2,6-diiodo-4-nitrophenol (Disophenol). Methods of testing its anthelmintic efficacy. *Journal of the South African Veterinary Association*. 52. 195-201.

**Reinecke, R,** Brückner, C & de Villiers, I. 1982. Studies on *Haemonchus contortus*. IV. The effect of *Trichostrongylus axei* and *Ostertagia circumcincta* on challenge with *H. contortus*. *Onderstepoort Journal of Veterinary Research*. 48: 229-34.

**Reinecke, R,** Brückner, C & de Villiers, I. 1982. Studies on *Haemonchus contortus*. V. Chemoprophylaxis and its effect on worm egg counts and the haematocrit. *Onderstepoort Journal of Veterinary Research*. 48: 235-8.

**Reinecke, RK,** Brückner, Christel & de Villiers, IL. 1982. Studies on *Haemonchus contortus*. VII. The effect of treatment of *Trichostrongylus axei* prior to challenge with *H. contortus*. *Onderstepoort Journal of Veterinary Research*. 49: 69.

**Reinecke, RK,** de Villiers, IL, Brückner, Christel. 1982. Studies on *Haemonchus contortus*. VI. Attempts to stimulate immunity to abomasal trichostrongylids in Merino sheep. *Onderstepoort Journal of Veterinary Research*. 49: 3-6

**Reinecke, RK,** de Villiers, IL, Lombard, MS & Krecek, Rosina C. 1984. Studies on *Haemonchus contortus*. XII. Effects of *Trichostrongylus axei* in Dorper lambs on natural pasture lightly infested with *H. contortus*. *The Onderstepoort Journal of Veterinary Research*. 51: 81-88.

**Reinecke, RK,** de Villiers, IL & Brückner, Christel. 1984. Studies on *Haemonchus contortus*. IX. The effect of *Trichostrongylus axei* in Merinos on natural pastures. *Onderstepoort Journal of Veterinary Research*. 51: 25-31.

**Reinecke, R,** de Villiers, I & Joubert, G. 1982. Studies on *Haemonchus contortus*. VIII. Attempts to protect suckling lambs against infestation with *H. contortus*. *Onderstepoort Journal of Veterinary Research*. 49: 149-50.

**Reinecke, R,** de Villiers, I & Joubert, Gerda. 1982. The effect of predosing calves with *Trichostrongylus axei* on subsequent challenge with *Haemonchus placei*. *Onderstepoort Journal of Veterinary Research*. 49: 159-61.

**Reinecke, RK,** de Villiers, IL & Joubert, Gerda. 1984. Studies on *Haemonchus contortus*. X. The effect of *Trichostrongylus axei* in Merinos on artificial pastures. *Onderstepoort Journal of Veterinary Research*. 51: 33-39.

**Reinecke, R,** de Villiers, I & Joubert, G. 1984. Studies on *Haemonchus contortus*. XI. The effect of a bovine strain of *Trichostrongylus axei* in Merinos on natural pastures heavily infested with *H. contortus*. *Onderstepoort Journal of Veterinary Research*. 51: 71-79.

**Reinecke, R,** de Villiers, I, Lombard, M & Krecek, Rosina, 1984. Studies on *Haemonchus contortus*. XII. Effect of *Trichostrongylus axei* in Dorper lambs on natural pasture lightly infested with *H. contortus*. *Onderstepoort Journal of Veterinary Research*. 51: 81-8.

**Reinecke, RK**, Figueiredo, MA & Mattos Junior, DG. 1992. Um método simples para o diagnóstico dos nematóides gastrointestinais mais comuns em bezerros. *Congresso de Medicina Veterinária*. 22:188.

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**Reinecke, RK** & Fonseca AH. 1992. First stage larvae per 15 ml (L1.15ml<sup>-1</sup>) calf faeces for the diagnosis of nematode parasites "ante mortem". *Pesquisa Veterinária Brasileira, Rio de Janeiro*, 12 (1/2): 43-44.

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**Reinecke, R**, Kirkpatrick, Robin, Kriel, A & Frank, F. 1990. Availability of infective larvae of parasitic nematodes of sheep grazing on Kikuyu (*Pennisetum clandestinum*) pastures in the winter rainfall area. *Onderstepoort Journal of Veterinary Research*. 56: 223-34.

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**Reinecke, R**, Lourens, M & Petersen, B. 1991. Overberg Research Projects. XI. First stage larval reduction test to assess anthelmintic efficacy ante mortem in sheep. *Onderstepoort Journal of Veterinary Research*. 58: 285-90.

**Reinecke, R** & Louw, J. 1990. Overberg Research Projects. I The epidemiology of parasitic nematodes in ewes, suckling lambs and weaners. *Journal of the South African Veterinary Association*. 60: 176-85.

**Reinecke, R** & Louw, J. 1992. Disinfestation of irrigated sheep pastures by alternating grazing with cattle. *Journal of the South African Veterinary Association*. 62: 156-7.

**Reinecke, RK** & Louw JP. 1994. Overberg research projects. XVI. First-stage larval reduction test versus the controlled anthelmintic test to assess the efficacy of anthelmintics against nematode parasites of sheep. *Journal of the South African Veterinary Association*, 65: 108-112.

**Reinecke, RK** & Reinecke, ND. 1993. Identification of first stage larvae L1 of bovine nematodes. *Pesquisa Veterinária Brasileira, Rio de Janeiro*. 1(14):1-4.

**Reinecke RK**, Snijders, AJ & Horak IG. 1962. A modification of standard procedures for evaluating the relative efficacy of anthelmintics. *Onderstepoort Journal of Veterinary Research*. 29 (2): 242-257.

**Reinecke, RK**, Snyman, H Maria & Seaman, Helga. 1979. Studies on *Haemonchus contortus*. II. The effect of abomasal nematodes on subsequent challenge with *H. contortus*. *Onderstepoort Journal of Veterinary Research*. 46: 199-205.



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Swart PJ & **Reinecke** RK. 1962. Studies on paramphistomiasis, I. The propagation of *Buinus tropicus* Krause 1848. *Onderstepoort Journal of Veterinary Research*. 29(2): 183-187.

Swart PJ & **Reinecke** RK. 1962. Studies on paramphistomiasis, II. The mass production of metacercariae of *Paramphistomum microbotrium* Fiscoeder 1901. *Onderstepoort Journal of Veterinary Research*, 29(2): 189-195.

### **Reports / Manuals**

**Reinecke** RK. 1973. The larval anthelmintic test in ruminants. Technical Communication No. 106. Department of Agricultural Technical Services, Republic of South Africa. lii + 20pp.

### **Pamphlets**

**Reinecke** RK. 1973. The larval anthelmintic test in ruminants. Technical Communication No. 106. Department of Agricultural Technical Services, Republic of South Africa. lii + 20pp.

### **Theses**

DVSc, University of Pretoria, 1959. Research on the epidemiology of nematode infestations of cattle in the north-western Cape Province.

M.Med.Vet (Parasitology), University of Pretoria, 1977. The effect of abomasal parasites on subsequent infestations with *Haemonchus contortus*.

DSc, (Zoology), University of Potchefstroom University for Christian Higher Education Education, 1980. Research on the development of a larval anthelmintic test in ruminants.

### **Books**

**Reinecke** RK. 1983. *Veterinary Helminthology*. Butterworth Publishers (Pty) Ltd, Durban. 392pp. ISBN: 0409112623,9780409112627

## **COURSES & TRAINING**

HPLC course offered by Beckman in 1992. Identification of Equine Internal Parasites by Prof Richard Reinecke.

Senior lecturer in Helminthology, Department of Parasitology, Faculty of Veterinary Science, University of Pretoria, Onderstepoort, 1961 – 1968/72.

Directed the research of post-graduate students – numbering 8 Doctoral and 4 Masters candidates in 1986.

In 1992 (?) he was invited as a “Visiting Professor” to the, Federal Rural University of Rio de Janeiro, Veterinary Science UFRRJ, Seropédica, Brazil, until his death in 1993.

Advisor to Dr Marcelo Abidu-Figueiredo for his Masters in Veterinary Science, “Influence of temperature on embryonic development in vitro in Nematode eggs (*Strongylus* parasites of Equine). Obtained in 1995.

## ACKNOWLEDGEMENTS

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## REFERENCES

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Walmsley Estelle 2008. Honouring our leading minds, 1908 – 2008. University of Pretoria (Information based on a CV circa 1993).

Heloise Heyne,  
September 2022