

C.D. EARDLEY
Brief CV

Personal details:

Full name : **EARDLEY**, Connal Desmond
Date and place of birth : 3 March 1954, Johannesburg, South Africa
Employer : Agricultural Research Council (**ARC**)
Plant Protection Research Institute (**PPRI**)
since 21 December 1997

Qualifications:

1976 **BSc** degree University of KwaZuluNatal, Pietermaritzburg.
1977 **BSc(Hons)** degree University of KwaZuluNatal, Pietermaritzburg.
1982 **MSc** degree *cum laude* University of the Free State, Bloemfontein.
1995 **PhD** degree University of KwaZuluNatal, Pietermaritzburg.
1997 **Hons. BCompt** degree UNISA, Pretoria.
Shorter training courses not included.

Employment:

All my professional working life has been with the Plant protection Research Institute.
1977 - 1998 : Professional Officer/ Research Scientists (dates for different levels of seniority not kept).
1998 – current : Specialist Scientist.

I am primarily a bee taxonomist, specializing in Afrotropical bees, yet more recently focusing my research on southern African bees. The reason for this approach is that before I retire I believe I can complete revisionary work on all the southern African bees, and produce a website, with interactive catalogue and identification keys, and a hardcopy publication for their identification. I will also be able to produce distribution maps and compare their distributions with the biomes, food plant species, soil types, altitude etc. to understand what possibly delimits bee distribution, and so created testable hypotheses. This type of information is not readily available for many other African countries. As systematics cannot be done in isolation, I still study bees from the remainder of the continent, and other zoogeographic regions, to ensure that I make the best possible taxonomic decisions. Sometimes this results in publications on bees from other regions of Africa, depending on the quality of the information at hand. Occasionally I'm also asked to help young scientists from other areas, such as a revision I'm involved in on the *Ctenoplectra* of Taiwan and studies recently completed on European *Melitta*.

Towards understanding the taxonomy of the bees from other regions of Africa, I propose to train at least one bee taxonomist in East, West and Central Africa. I have at least one person either beginning taxonomic studies or earmarked to start after finishing his/her degree in each region. Towards this goal I've catalogued every articles on Afrotropical bees (to be submitted later this year for publication in Zootaxa), I am scanning all the articles as pdf files and I'm producing a LUCID key for the identification of bee genera. This will enable young scientists to quickly become practicing and publishing taxonomists.

ARC staff now must apply for NRF rating. This was recently done.

I have spend much of the past decade initiating and developing the International Pollinator Initiative (IPI), African Pollinator Initiative (API) and a large number of other successful projects, which has resulted in fewer scientific publication than expected. In the future I plan on focussing on bee taxonomy and therefore increase my publication rate, but as a few of my current studies will result in thick publications the number of articles may not go up much. I do not propose to turn my back on API, and in July we'll hold a meeting to discuss how the USA National Science Foundation (NSF) can foster bee and pollination research in Africa, and API will become the networking vehicle. I will soon have an API page on the ARC website

I'm also interested in stingless bee keeping (meliponiculture), although have only studied their taxonomy. My intension is to reduce destructive harvesting of their honey and improve pollination of crops and wild plants. I believe this can be grown into a green industry that can be practiced in and around nature reserves, and they could be managed to improve pollination of wild plants should the ailing honey bee create a void. I'm also involved in the bee barcoding initiative, particularly because I think we need to be able to identify the biotypes of bees used in migratory bee keeping (honey bees and stingless bees) to provide a scientific basis to their management. But these are sidelines, as taxonomy is my main focus.

APPENDIX

Publication list for C.D. Eardley

An asterix indicates semi-scientific and technical publications and published reports.

1. EARDLEY, C.D., 1983. A taxonomic revision of the genus *Xylocopa* Latreille (Hymenoptera: Anthophoridae) in southern Africa. *Entomology Memoir, Department of Agriculture, Republic of South Africa* No. 58, 67pp.
- 2.* EARDLEY, C.D., 1983. Systematic research on South African bees. *Agricultural News* 4 February 1983 p.2.
3. PRINSLOO, G.L. & C.D. EARDLEY, 1985. Order Hymenoptera (Sawflies, wasps, bees, ants). [*In*] Scholtz, C.H. & E. Holm [Eds]. *Insects of Southern Africa*, Butterworths, Durban p.393-395.
4. PRINSLOO, G.L. & C.D. EARDLEY, 1985. Suborder Apocrita. [*In*] Scholtz, C.H. & E. Holm [Eds]. *Insects of Southern Africa*, Butterworths, Durban p.399-429.
5. C.D. EARDLEY, 1985. Vespoidea. [*In*] Scholtz, C.H. & E. Holm [Eds]. *Insects of Southern Africa*, Butterworths, Durban p.429-430.
6. C.D. EARDLEY, 1985. Sphecoidea. [*In*] Scholtz, C.H. & E. Holm [Eds]. *Insects of Southern Africa*, Butterworths, Durban. p.430-436.
7. C.D. EARDLEY, 1985. Apoidea. [*In*] Scholtz, C.H. & E. Holm [Eds]. *Insects of Southern Africa*, Butterworths, Durban. p.436-443.
8. EARDLEY, C.D., 1987. Catalogue of Apoidea (Hymenoptera) in Africa south of the Sahara. Part I. The genus *Xylocopa* Latreille (Anthophoridae). *Entomology Memoir, Department of Agriculture and Water Supply, Republic of South Africa* No. 70. 20pp.
9. EARDLEY, C.D., 1988. A revision of the genus *Lithurge* Latreille (Hymenoptera: Megachilidae) of sub-Saharan Africa. *Journal of the Entomological Society of Southern Africa* 15(2): 251-263.

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11. EARDLEY, C.D., (1990). The Afrotropical species of *Eucara* Friese, *Tetralonia* Spinola and *Tetraloniella* Ashmead (Hymenoptera: Anthophoridae). *Entomology Memoir, Department of Agricultural Development, Republic of South Africa* No. 75, 62pp.
12. EARDLEY, C.D. AND R.W. BROOKS, (1990). The genus *Anthophora* Latreille in southern Africa (Hymenoptera: Anthophoridae). *Entomology Memoir, Department of Agricultural Development, Republic of South Africa* No. 76, 55pp.
13. EARDLEY, C.D., (1991). The Melectini in subsaharan Africa (Hymenoptera: Anthophoridae). *Entomology Memoir, Department of Agricultural Development, Republic of South Africa* No. 82, 49pp.
14. EARDLEY, C.D. AND M. SCHWARZ, 1991. The Afrotropical species of *Nomada* Scopoli (Hymenoptera: Anthophoridae). *Phytophylactica* 23(1): 17-27.
15. EARDLEY, C.D., (1991). The genus *Epeolus* Latreille from subsaharan Africa (Hymenoptera: Anthophoridae). *Journal of Natural History* 25: 711-731.
16. EARDLEY, C.D., (1991). The southern African Panurginae (Andrenidae: Hymenoptera). *Phytophylactica* 23(2): 115-136.
17. EARDLEY, C.D., 1993. Complementary descriptions and new synonyms of some Afrotropical Anthophoridae (Hymenoptera). *African Entomology* 1(2): 145-150.
- 18.* EARDLEY, C.D. & M.W. MANSELL, 1993. Preliminary report on the natural occurrence of insect pollinators in an avocado orchard. *South African Avocado Grower's Association Yearbook* 16: 127-128.
- 19.* EARDLEY, C.D. & M.W. MANSELL, 1993. Preliminary report on the natural occurrence of insect pollinators in a mango orchard. *South African Mango Grower's Association Yearbook* 13: 127-128.
20. EARDLEY, C.D., 1993. The African species of *Pachymelus* Smith (Hymenoptera: Anthophoridae). *Phytophylactica* 25: 217-229.
- 21.* EARDLEY, C.D., 1993. *Book review: Ecology and Natural History of Tropical Bees* (Cambridge Tropical Biology Series) by David W. Roubik. Cambridge University Press. [In]: *African Entomology* 1:130-131.
- 22.* EARDLEY, C.D. & M.W. MANSELL, 1994. Report on the natural occurrence of insect pollinators in an avocado orchard: second report. *South African Avocado Grower's Association Yearbook* 17: 117-118.
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- 24.* EARDLEY, C.D. & M.W. MANSELL, 1994. Preliminary report on the natural occurrence of insect pollinators in a litchi orchard. *South African Litchi Grower's Association Yearbook* 6: 13-14.
- 25.* EARDLEY, C.D., 1994. *Book review: Zoological Catalogue of Australia. Vol. 10. Hymenoptera: Apoidea* by J.C. Cardale. [In]: *African Entomology* 2:77.

26. EARDLEY, C.D., 1994. The genus *Amegilla* Friese (Hymenoptera: Anthophoridae) in southern Africa. *Republic of southern Africa, Department of Agriculture, Entomology Memoir* 91: 1-68.
- 27.* EARDLEY, C.D., 1994. *Book review: Bees of the World* by C.O'Toole & A. Raw. [In]: *African Entomology* 2:189.
- 28.* EARDLEY, C.D., 1994. *Book review: Hymenoptera and Biodiversity* by J. LaSalle & I.D. Gauld Eds. [In]: *African Entomology* 2:189-190.
29. URBAN, A.J. & C.D. EARDLEY, 1995. A recently introduced sawfly, *Nematus oligospilus* Förster (Hymenoptera: Tenthredinidae), that defoliates willows in southern Africa. *African Entomology* 3:23-27.
- 30.* EARDLEY, C.D. & M.W. MANSELL, 1995. Report on the natural occurrence of insect pollinators in a litchi orchard. *South African Litchi Grower's Association Yearbook* 7:33-34.
- 31.* EARDLEY, C.D. & M.W. MANSELL, 1995. The natural occurrence of insect pollinators in a Mango orchard: Final Report. *South African Mango Grower's Association Yearbook* 15: 89-91.
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- 33.* EARDLEY, C.D. & A.S. DIPPENAAR, 1996. Collecting and Preparation of Material. [In] Uys V.M. & R.P. Urban [Eds]. *How to Collect and preserve Insects and Arachnids*, Plant Protection Research Institute Handbook No. 7, Biosystematics Division, Plant Protection Research Institute p. 23-35.
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- 35.* EARDLEY, C.D., 1996. *Book Review: The Pollen Wasps.* by S.Gess [In]: *African Entomology* 4(2): 291.
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- 40.* EARDLEY, C.D. & M.W. MANSELL, 1997. The natural occurrence of insect pollinators in a litchi orchard. *South African Litchi Grower's Association Yearbook* 8:27-29.
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- 42.* EARDLEY, C.D., 1997. Proceedings of First LOOP Co-ordinating Committee Meeting of SAFRINET. SAFRINET Document 4. pp 56.
- 43* JONES, T. & C.D. EARDLEY 1998. SAFRINET Manifesto & Portfolio. SAFRINET Document 5. pp.63.
- 44.* EARDLEY, C.D., 1998. Biosystematic Resources in the SADC Sub-region: Towards a Strategic Plan. SAFRINET Document 6. pp 57.
- 45.* EARDLEY, C.D., 1998. Proceedings of Second LOOP Co-ordinating Committee Meeting of SAFRINET. SAFRINET Document 7. pp 36.
- 46.* EARDLEY, C.D. & P. CANNON, 1998. Annual Report 1997. SAFRINET Document 8. pp 49.
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- 53.* EARDLEY, C.D. (2001). *Book Review: Hymenoptera Evolution, Biodiversity and Biological Control*. by A.D. Austin and M. Downton [Eds] [In]: *African Entomology*.Johannsmeier, M.F [Ed.]. 2001. (Contributing author). Beekeeping in South Africa. Third edition, revised. Plant Protection Research Institute Handbook No 14. 288pp.
54. PAULY, A., R. BROOKS, A. NILSSON, Y. PSENKO, C. EARDLEY, M. TERZO, T. GRISWOLD, M. SCHWARZ., S. PATINY, J. MUNZINGER AND Y. BARBIER. 2001. Hymenoptera Apoidea de Madagascar et des iles voisines. *Annales Sciences Zoologiques* 286: 1-390. 16 pls.
55. EARDLEY, C.D. 2001. Pollinators: a conservation priority. *Science in Africa issue 2*. <http://scienceinafrica.co.za/pollinator.htm>.
- 56* . EARDLEY, C.D. (2002). Pollinators for Africa. Infopak, Department of Agriculture, Pretoria. 16pp.
57. EARDLEY, C.D. & V.B. WHITEHEAD. (2003). The Afrotropical Fideliidea. *Journal of the Kansas Entomological Society* 76(2): 250-276.
58. EARDLEY, C.D. 2002. Taxonomic services: Afrotropical bees. [http://www.ecoport.org/EP.exe\\$PassCheckStart?ID=30](http://www.ecoport.org/EP.exe$PassCheckStart?ID=30).
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61. EARDLEY, C.D. (2004). Afrotropical Stingless Bees (Hymenoptera: Apidae). *African Plant Protection* 10(2): 63-96.
62. DAVIES G.B.P., C.D. EARDLEY AND D.J. BROTHERS(2005). Eight new species of *Scapter* (Hymenoptera: Apoidea: Colletidae) with descriptions of *S. albifumus* and *S. amplispinatus* females and a major range extension of the genus. *African Invertebrates* 46: 141-179.
63. DIAZ, S. D. Tilman AND J. Fargione (C. Eardley contributing author) (2005). Biodiversity Regulation of Ecosystem Services. [In] *Ecosystem Services and Human Well-Being* R. Hassan, R. Scoles and N. Ash. Oisland Press, Washington, Covelo, London. 917pp.
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65. EARDLEY, C.D. AND A.S. DIPPENAAR, 1996 (2nd Ed. 2006). *Collecting and Preparation of Material*. [In] Uys V.M. & R.P. Urban [Eds]. *How to Collect and preserve Insects and Arachnids*, Plant Protection Research Institute Handbook No. 7, Biosystematics Division, Plant Protection Research Institute p. 23-35.
66. EARDLEY, C.D. (2006). Afrotropical Bees now: what next? *Pollinating Bees. The Conservation Link Between Agriculture and Nature* (2nd Ed.), 105-114.
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69. EARDLEY, C., D. ROTH, J. CLARKE, S. BUCHMANN AND B. GEMMILL [Eds] (2006). *Pollinators and Pollination: A resources book for policy and practice*. API. Pretoria. 77pp.
70. EARDLEY, C.D. (2006). The southern Africa species of *Andrena* Fabricius (Apoidea: Andrenidae). *African Plant Protection*. 12: 51-57.
71. CORTOPASSI-LAURINO, M., V.L. Imperatriz-Fonseca, D.W. Roubik, A. Dollin, T. Heard, I. Aguilar, G.C. Venturieri, C. Eardley AND P. Nogueira-Neto (2006). Global meliponiculture: challenges and opportunities. *Apidologie* 37, 275-292.
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73. EARDLEY, C.D. AND H.V. DALY (2007). Bees of the genus *Ceratina* Latreille in southern Africa (Hymenoptera: Apoidea). *Entomofauna* 13: 1-96.
74. MICHEZ, D., C.D. EARDLEY, M. KUHLMANN AND S. PATINY (2007). Revision of the bee genus *Capicola* (Hymenoptera: Apoidea: Melittidae) distributed in the Southwest of Africa. *European Journal of Entomology* 104: 311-340.
75. GEMMILL-HERREN, B., C. EARDLEY, J. MBURU, W. KINUTHIA AND D. MARTINS (2007). Chapter 9. Pollinators [In] Scherr, S.J. and McNeely, J.A. [Eds.] 2007. *Farming with Nature. The Science and Practice of Ecoagriculture*. OislandPress, Washington, Covelo, London. 445pp.
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80. Eardley C (2009) A revision of the Southern African species of *Meliturgula* Friese (Hymenoptera: Andrenidae: Panurginae) *Zootaxa* 2261: 39–51.
81. Eardley C (2009) First record of the tribe Biastini from the Afrotropical Region (Hymenoptera: Apidae). *Zootaxa* 2264: 65–68.
82. Eardley C, Gikungu M, Schwarz M (2009) Bee conservation in Sub-Saharan Africa and Madagascar: diversity, status and threats *Apidologie* 40 (2009) 355–366.
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4. IPBES document