

CURRICULUM VITAE: D.H JACOBS

PERSONAL DETAILS

Surname: Jacobs
Name: Dawid Hermanus

UNIVERSITY EDUCATION

University: University of Pretoria
1973: Enrolled for B.Sc.
1975: B.Sc. with Entomology and Zoology as majors (distinction in Entomology).
1976: B.Sc. Honours (Entomology)
1980: M.Sc. Entomology (**cum laude**).
1981: B.Sc. Honours (Genetics) (**cum laude**).
2000: PhD [Cytotaxonomy, Classification and Phylogeny of African Carventinae (Heteroptera: Aradidae)].

WORK EXPERIENCE

1975 - 1976: Demonstrator at Department of Zoology.
3/1/1977 - 30/6/1977: Scientific officer at Department of Agricultural Technical Services.
1979 - 1981: Technical assistant at Department of Genetics, University of Pretoria.
1982 - 1990: Lecturer in Department of Genetics, University of Pretoria.
1991 - 1992: Senior lecturer in Department of Genetics, University of Pretoria.
1993 - 1999: Teacher.
2000 - 2003 Post Doctoral Research Fellow, Department of Zoology and Entomology, University of Pretoria.
2000 + Environmental Consultant (Invertebrates)
2003 + Research Associate, Department of Zoology and Entomology, University of Pretoria.

Other: Selected Environmental Impact Assessments and surveys
EIA (Insects) Telkom masts on the Magaliesberg (for Telkom).
EIA (Insects) P2-5/K14 road near Cullinan (for De Beers Consolidated Mines: Premier Mine).
Ecological report (wetland and the Giant Bull Frog) at Kengies nr. Johannesburg (for Intraland).
Assessment of the presence or possible presence of *Metisella meninx* (Lepidoptera: Hesperidae), *Harpactira hamiltoni* (Araneae: Theraphosidae) and *Hadogenes gunningi* (Scorpiones: Ischnuridae) at a site next to the Buccleuch interchange on the N1 between Pretoria and Johannesburg (for Geo Pollution Technologies).
Habitat sensitive assessment of the invertebrate fauna at the proposed site for the Aspen Hills Phase 3 Township, with emphasis on endangered and protected species (for Aspen Hills Development Company)
Assessment of terrestrial Invertebrate fauna at the proposed site for a petrol filling station on both sides of the N3 highway located on the farm

- Rooikop 140 IR south of Johannesburg, with emphasis on endangered, protected and sensitive species (for Ecosun).
- Upgrading of a 14 km part of the D4050 road from Ga-Mampa village at the foot of the Wolkberg Wilderness area to the paved road inside the Lekgalameetse Nature Reserve: Environmental Impact Assessment: Invertebrates (for Limpopo Roads Agency).
- Assessment of the presence or possible presence of *Galeosoma pilosum* Hewitt (Araneae, Idiopidae) at the proposed site for “Sunset Lake Estate” - Portions 175, 176 and 179 of the farm Knopjeslaagte 385 JR (for Tekplan Environmental).
- Survey of the Heteroptera fauna of the Tswalu Game Reserve. (for E. Oppenheimer & Son (Pty) Limited)
- Assessment of the insect and invertebrate fauna at Portion 1 of the farm Putfontein 26-IR with emphasis on endangered, protected and sensitive species (for TEKPLAN Environmental and GARNAT Properties).
- Assessment of the insect and invertebrate fauna at Portions 21, 23, 63 and 64 of the farm Vlakfontein 238 IQ near Kagiso with emphasis on endangered, protected and sensitive species (for Tua Conserva)
- Assessment of endangered, protected and sensitive Invertebrate fauna at the proposed site for development of a shopping centre and middle and low income housing on Portions 105, 109 and the Remainder of Portion 331 on the farm Knopjeslaagte 385JR located in Lezonia, with special reference to the following species: Scorpion *Hadogenes gunningi*, Baboon spiders *Harpactira hamiltoni* and *Brachionopus pretoriae*, Trapdoor spiders *Calommata simoni*, *Galeosoma pilosum*, *Galeosoma robertsi* and *Segregara monticola*, and the butterfly *Metisella meninx* (for Cymbian Enviro-Social Consulting Services).
- Biosurvey of the Rijstkuil uranium mining application area, district Beaufort West. (for Ferret Mining & Environmental Services (Pty) Ltd).
- Selkirk mine - Survey and Impact Assessment: Invertebrates (for TWP Environmental Services).

SCIENTIFIC PAPERS (Recent years)

- JACOBS D.H. & H. LIEBENBERG 2001. Cytogenetics of *Adamanotus uncotibialis* Jacobs (Heteroptera: Aradidae). *Caryologia* **54(1)**: 83-96.
- JACOBS D.H. 2002a. *Rwandaptera montanus*, a new species of South African Carventinae, with a key to the carventine genera of the Afrotropical Region (Heteroptera: Aradidae). *African Entomology* **10(2)**: 161-169.
- JACOBS D.H. 2002b. Cytogenetics and karyotype evolution of the genus *Miteronotus* Jacobs (Heteroptera: Aradidae: Carventinae) with an assessment of the possible role of pseudopolyploidy in their karyotype evolution. *African Entomology* **10(2)**: 171-184.
- JACOBS D.H. & H.T. GROENEVELD 2002. Cytogenetics and karyotype evolution of the genus *Silvacoris* Jacobs (Heteroptera: Aradidae: Carventinae) with the description of a statistical method to compare karyotypes. *Cytologia* **67(2)**: 159-168.
- JACOBS D.H. 2003a. The behaviour of a multiple sex chromosome system in *Dundocoris flavilineatus* (Heteroptera: Aradidae: Carventinae) that originated by autosome-sex chromosome fusion. *Folia Biologica (Kraków)* **51(1-2)**: 23-32.

- JACOBS D.H. 2003b. Cytogenetics of the genus *Dundocoris* Hoberlandt (Heteroptera, Aradidae, Carventinae) where chromosome fusion played the dominant role in karyotype evolution. *Caryologia* **56(3)**: 233-252.
- JACOBS D.H. 2004. The evolution of a neo-XY₁Y₂ sex chromosome system by autosome-sex chromosome fusion in *Dundocoris nodulicarinus* Jacobs (Heteroptera: Aradidae: Carventinae). *Chromosome Research* **12**: 175-191.
- JACOBS D.H. & S. NESER. 2005. *Thaumastocoris australicus* Kirkaldy (Heteroptera: Thaumastocoridae): a new insect arrival in South Africa, damaging to *Eucalyptus* trees. *South African Journal of Science* **101**: 233-236.
- JACOBS D.H. 2006. An atypical micropterous new genus and species of Calisiinae with a short scutellum and notes on the biology of the subfamily (Heteroptera, Aradidae). *Denisia* **50**: 149-157.
- JACOBS D.H. 2006. Three sibling chromosomal subspecies of *Dundocoris nodulicarinus* nov. sp. (Heteroptera, Aradidae, Carventinae) with notes on the applicability of some species concepts on sibling taxa with different chromosome numbers. *Denisia* **50**: 159-180.
- KERZHNER I.M. & D.H. JACOBS 2008. A new species of *Himacerus* from South Africa (Heteroptera: Nabidae). *Zootaxa* **1819**: 63-67.
- VAN DOESBURG P.H. & D.H. JACOBS (In press) A new *Themonocoris* from South Africa (Heteroptera: Reduviidae: Themonocorinae). *Zootaxa*