

Abbreviated CV – Lloyd Rossouw

Education

University of the Free State, RSA; Ph.D in Plant Sciences (**to be completed 2007**)

University of the Witwatersrand, Bernard Price Institute for Palaeontology, RSA;
M.Sc. (cum laude) in Quaternary Palaeontology (**2001**).

University of Stellenbosch, RSA; BA Honours in Archaeology (**1991**).

Appointments

Museum Scientist 2000 – Present.

National Museum Bloemfontein, Department Florisbad Quaternary Research,

Research Officer 1998 - 1999

Palaeo-anthropological Research Group, University of the Witwatersrand,

Curator, Florisbad Quaternary Research Station 1996 –1998

National Museum Bloemfontein, Department Florisbad Quaternary Research,

Research Assistant 1994 –1996

National Museum Bloemfontein, Department Florisbad Quaternary Research,

Papers presented at conferences

INQUA 17th International Meeting on Quaternary Research, **Cairns, Australië**, Julie 2007.

SPR 6th Biennial Meeting of the Society for Phytolith Research, **Barcelona, Spain**, September 2006.

SASQUA Biennial Conference, UFS **Bloemfontein**, April 2005 (co-organiser of the meeting).

SA3 Southern African Association of Archaeologists Biennial Conference, **Kimberley**, April 2004.

SASQUA Biennial Conference, Wits **Johannesburg**, April 2003.

Palaeontological Society of Southern Africa Biennial Conference, **Bloemfontein**, October 2002 (co-organiser of the meeting).

SA3 Southern African Association of Archaeologists Biennial Conference, **Cape Town**, July 2002.

Palaeo-Grassland Research Biennial Conference, **St. Cloud, Minnesota USA**, June 2002.

Palaeontological Society of Southern Africa Biennial Conference, Pretoria, September, 2000.

Palaeontological Society of Southern Africa Biennial Conference, **Stellenbosch**, September 1996.

10th **Pan African** Congress for Prehistory & Related Studies, **Harare**, June 1995

SASQUA Biennial Conference, **Cape Town**, May 1995.

Publications

Rossouw, L. & Scott, L. (submitted for review April 2007). Pollen and Grass Phytoliths: microscopic plant remains in Pliocene volcanic sediments around Laetoli, Tanzania. In: T. Harrison (ed). *Palaeontology and geology of Laetoli, Tanzania: Human Evolution in Context*. Springer. New York.

D. Codron, D., Brink, J.S., Rossouw, L., Clauss, M., Codron, J., Lee-Thorp, J.A. and M. Sponheimer, M. (in press). Functional differentiation of African grazing ruminants: an example of specialized adaptations to very small changes in diet. *Biological Journal of the Linnaean Society*.

Rossouw, L. 2006. Florisian mammal fossils from erosional gullies along the Modder River at Mitasrust farm, central Free State, South Africa. *Navorsing van die Nasionale Museum* 22(6): 145-162.

Henderson, Z.L., Scott, L. Rossouw, L. & Jacobs, Z. 2006. The dating, palaeoenvironments and archaeology of the Sunnyside 1 site, Clarens, South Africa. In: T. Rocek (ed.). *Intergrading the diversity of 21st century anthropology: the life and intellectual legacies of Susan Kent*. Archeological Papers of the American Anthropological Association Vol. 16 No. 1, pp. 139-149. (doi:10.1525/ap3a.2006.16.1.139)

Scott, L. & Rossouw, L. 2005. Reassessment of botanical evidence for palaeoenvironments at Florisbad, South Africa. *South African Archaeological Bulletin* 60 (182): 96 – 102..

Grab, S., Scott, L. Rossouw, L. & Meyer S. 2005. Holocene palaeoenvironments inferred from a sedimentary sequence in the Tsoaing River Basin, western Lesotho. *Catena* 61: 49 – 62. (doi: 10.1016/j.catena.2005.01.002)

Brink, J.S. & Rossouw, L. 2000. New trial excavations at the Cornelia-Uitzoek type locality. *Navorsing van die Nasionale Museum* 16(6): 141 – 156.

Churchill, S.E., Brink, J.S., Berger, L.R. Hutchison, R.A., Rossouw L., *et al.* 2000. Erfkroon: a new Florisian fossil locality from fluvial contexts in the western Free State, South Africa. *South African Journal of Science*. 96: 161 – 163.

Published Abstracts

Brink, J.S., Grun, R., Rossouw, L. and Codron, D. 2007. Mid-Quaternary large mammal succession and extinction in southern Africa. *Quaternary International* 167 – 168 (3-486)

Backwell, L.R., Steininger, C.M, Brink, J., Neveling, J., Rossouw, L. & Pereira, L. 2007. Large mammal mass death accumulation in the Holocene of South Africa. PSSA, Grahamstown, South Africa. *Palaeontologia Africana*. 42: 118.

Rossouw, L and Scott, L. 2006. Ecological significance of South African short-cell phytoliths. 6th Biennial Meeting of the Society for Phytolith Research in Barcelona, Spain, September 2006. *Society for Phytolith Research Bulletin 1 (1): 14.*

Research Reports

Rossouw, L. 2003. Identification of faunal remains found with KOF 30, Whitworth Dump, De Beers Mine, Koffiefontein. *Unpublished Report for the Dept. of Archaeology, , National Museum Bloemfontein.*

Rossouw, L. 2000. New Late Pleistocene/Holocene fossil vertebrate localities and Stone Age surface sites along the Riet River around Koffiefontein, Free State. *Unpublished Report for the Palaeo-Anthropological Research Group, University of the Witwatersrand*

Rossouw, L. 2000. Preliminary species list of Late Pleistocene / Holocene fossil vertebrate remains from erosional gullies along the Modder River NE of Sannaspos, Free State. *Unpublished Report for the Palaeo-Anthropological Research Group, University of the Witwatersrand.*

Rossouw, L. 1999. Vertebrate fossils identified from Late Pleistocene calcrete horizons at the Brakspruit, Venterspruit and Welgerus Dongas, Free State. *Unpublished Report for the Palaeo-Anthropological Research Group, University of the Witwatersrand.*

Rossouw, L. 1999. Gladysvale Outside excavations: preliminary faunal species list. *Unpublished Report for the Palaeo-Anthropological Research Group, University of the Witwatersrand.*

Professional Impact Assessment Reports

Rossouw, L. 2007. Phase 1 Archaeological Impact Assessment of a 4000 m², portion of land demarcated for development by Coca Cola in Bloemfontein.

Rossouw, L. 2007. Preliminary assessment of potential archaeological impact for the farms Rosmincol 442 JP in the district of Koster, Northwest Province.

Rossouw, L. 2007. Phase 1 AIA and PIA of 30 gravel quarries on the R354 between Calvinia and Sutherland, Northern Cape Province.

Rossouw, L. 2007. Phase 1 AIA and PIA of a portion of the farm Kromellenboog 320 near Christiana, Northwest Province.

Rossouw, L. 2006. Phase 1 Archaeological Impact Assessment of an area proposed for the extension of a slate quarry on portion 19 of the farm Broekmansfontein 294 JP, Groot Marico district, Northwest Province. .

Rossouw, L. 2006. Phase 1 Archaeological Impact Assessment of an old diamond digging on the farm Droogpan 178, Ventersdorp district, Northwest Province. .

Henderson, Z & Rossouw, L. 2006. Assessment of proposed Eskom lines ZM1, ZM3, ZP2, ZP3 and ZP4 in terms of archaeological, palaeontological and other heritage sites.

Rossouw, L. 2006. Phase 1 Archaeological Impact Assessment of a section of road to be constructed between the Metsimatshe Dam in the FS and the Rugged Glen Nature Reserve in KZN.

Rossouw, L. 2006. Phase 1 Archaeological Impact Assessment of a water pipeline pumping system from Armenia Dam, near Thaba Phatshwa to Tweespruit, Excelsior district.

Rossouw, L. 2006. Phase 1 Archaeological Impact Assessment of a certain portion of the remaining extent and portion 1 on the farm Ruby 691, Kroonstad district, Free State Province.

Rossouw, L. 2006. A preliminary evaluation of archaeological and palaeontological impact with regard to the application for prospecting rights on the farms Doornfontein 12, Grasbult 5, Schoolplaats 3, Schoolplaats Annex 4 and Pontdrift 2 in the Warrenton district, Northern Cape region.

Rossouw, L. 2005. Phase 1 Archaeological impact assessment of road construction on the R702/R26, approximately 7 km west of Wepener.

Rossouw, L. 2005. Phase 1 Archaeological Impact Assessment of a 10 km section of road P42/2 to be re-aligned and upgraded between Springfontein and Bethulie, Free State Province.

Rossouw, L. 2005. Phase 1 Archaeological Impact Assessment of an informal Graveyard on the farm Bergendal 1706, Bloemfontein District, Free State Province.

Synergistic Activities

Initiated a plant silica research project using grass phytoliths as palaeo-environmental indicators and building up the first phytolith reference collection in South Africa .

Analysed and assisted in analyzing fossil mammal fauna from several palaeontological / archaeological localities in South Africa.

Served as part-time lecturer on phytolith analysis and large-mammal palaeo-ecology to third-year Botany students at UFS since 2004.

Co-planner of a permanent open-air exhibition at Florisbad Research Station in 2005

Assisted students with faunal identifications during 1996 / 1997 field schools at Florisbad.

Presented regular on-site lectures at Florisbad to members of the public, school groups and students since 1995.

Conducted several fieldwork expeditions to search for new palaeontological and archaeological sites in Botswana and selected parts of South Africa.

Participated in the excavation of 10 different palaeontological / archaeological sites since 1995.

Supervised / co-supervised 6 palaeontological excavations since 1995

Recorded 31 new palaeontological / archaeological open-air localities since 1998.

Fieldwork Highlights

Stone Age Archaeology & Palaeontology:

Tierfontein, FS October 2007. Rediscovery and survey of a Pliocene fossil locality on the Vet River

Erfkroon, Modder River FS, July 2005, April-June 1998 & October-November 1997. Soil sampling, surveying and excavation of distinct localities exposed in erosional gullies, yielding artefacts characteristic of MSA and LSA, as well as Florisian fossil vertebrates.

Laetoli, Tanzania, July 2004. Conduct fieldwork for analytical studies on fossil phytoliths extracted from the Pliocene volcanic beds at Laetoli. Project leader: Terry Harrison, Director, Center for the Study of Human Origins, New York University, U.S.A.)

Mitasrust, near Maselspoort, FS, August 2003. Mapping terminal Pleistocene fossil vertebrate localities and MSA surface scatters situated in erosional gullies along the Modder River north of Bloemfontein.

Dealesville, FS, April 2003. Sampling for fossil phytoliths at the Baden-Baden archaeological site, FS.

Braamhoek, KZN, June 2002. Coring Holocene vlei deposits for pollen and phytolith analytical studies.

Cornelia, FS, May 2002 & 2000, March 1998 & September 1995. Extended archaeological excavations into the fossil-bearing deposits of the Cornelia-Uitzoek type locality.

Vaal-Orange River confluence between Warrenton and Douglas NC, August 1999. Palaeontological and archaeological survey of riverbanks and terraces.

Virginia Railway Cutting, Virginia district, FS, June 1999. High-resolution theodolite survey of the stratigraphy of the fossil-bearing Plio/Pleistocene river gravels exposed by a railway cutting on the northern bank of the Sand River, Virginia, FS.

Klip River, MP, May 1999. Palaeontological survey of extensive erosional gullies near Platrand, Standerton.

Kromdraai, Sterkfontein Valley, GP, March-April & July 1999. Analysis of breccia for fossil vertebrate identification.

Gladysvale Cave, Sterkfontein Valley, GP, March-April & July 1999. Excavation, plotting and analysis of Late Pleistocene fossil vertebrate remains from the decalcified deposits outside the cave.

Riet River, Koffiefontein district, FS, February 1999. Mapping and recording multiple Late Pleistocene/Holocene fossil vertebrate localities and Stone Age surface sites.

Brakspruit & Venterspruit tributaries, north-eastern FS, January 1999. Mapping and recording multiple Late Pleistocene/Holocene fossil vertebrate localities and Stone Age surface sites.

Botswana September 1998 – December 1998. Mapping and recording of multiple vertebrate fossil localities and Stone Age surface sites and/or material:

Boteti River, between Maun & Tsoe, north-eastern Makgadikgadi

Makowe Pan, northern Makgadikgadi

Ntwetwe Pan, central Makgadikgadi

Sowa Pan & Orapa, central Makgadikgadi

Motloutsi River between Mmadinare & Ponsdrif, Tuli Block

Shashe River, Tuli Block

Molopo River between Metlejane & Tshabong, southern Kalahari

Eastern Kalahari, from Tshabong through Mabuasehube to Maun

Doring River & Sand River, Virginia district, FS, May – July of 1998, 1997 & 1996. Palaeontological survey of fluvial deposits and recording of vertebrate fossil localities and Stone Age archaeological surface sites exposed by extensive erosional gullies along the riverbanks.

Modder River Drainage, Dewetsdorp to Jacobsdal, central FS, May – July of 1998, 1997 & 1996. Palaeontological survey of fluvial deposits and recording of vertebrate fossil localities and Stone Age archaeological surface sites exposed by extensive erosional gullies along riverbanks.

Besaansklip, Saldanha Bay, WC, October 1996. Excavation, plotting, *in situ* preparation, analysis and cataloguing of vertebrate fossil remains from a species-rich, terminal Pleistocene hyaena lair threatened by granite quarry excavations.

Cango Valley, Oudtshoorn, WC, January 1996. Mapping and excavation of Late Pleistocene carnivore lairs in the foothills of the Swartberg Mountains.

Kareepan, Bloemhof, NW, November 1995. Excavation of Holocene hyaena lairs from the upper Vaal River Gravels.

Florisbad, FS, October-December 1995. Excavation of the MSA living floor; *in situ* preparation of fossil remains; recording, plotting and cataloguing stone tools and fossil material.

Boesmansfontein, Phillipolis, FS, March 1995. Recording and excavation of eroded Late Pleistocene and historical hyaena lairs.

Knysna, WC, March 1990. vibracoring sediment samples in and around Holocene wetlands.

Bitterputs, NC, March 1989. Later Stone Age occupation site.

Klasies River Main Site, EC, Tsitsikamma Coast, January 1989 & April 1992.

Historical Archaeology: Assessment, surveying and excavation of historical sites/buildings.

Markotter Sports Ground Grave, Stellenbosch, October 1992 - November 1992

Bien Donne [Phase 3], Simondium January 1992 - May 1992

Zomerlust, Paarl September 1992
Keerweder, Franschoek February 1992
Bien Donne [Phase 2], Simondium October 1991 - January 1992
Boekenhoutskloof, Franschoek March - April 1991
Fredericksberg, Franschoek . February 1991
Bien Donne [Phase 1], Simondium., December 1990
17 van Ryneveld Street, Stellenbosch . December 1989 - February 1990
First National Bank, Stellenbosch. December 1989 - February 1990
Sterhuis, Grabouw. September 1989

Rock Art: Recording and/or rehabilitation of new or damaged sites.

Traveller's Rest, Clanwilliam, 1991
Banghoek, Piketberg, 1991
Gifberg (Wiedouw), Vanrhynsdorp, 1990/1991
Kagga Kamma, Ceres, 1990

Current Collaborators

Dr. Lucinda Backwell, BPI, University of the Witwatersrand.
Dr. James S. Brink, National Museum, Bloemfontein.
Dr. Darryl Codron, University of KZN
Dr. Terry Harrison, Center for the Study of Human Origins, New York University.
Dr. Zoe L. Henderson, National Museum, Bloemfontein
Prof. Louis Scott, Dept. of Plant Sciences, University of the Free State.
Dr. Michael Chazin, University of Toronto.