LLOYD ROSSOUW – BIOSKETCH

Lloyd Rossouw specializes in the southern African Quaternary and has over twenty years of extensive fieldwork experience. He graduated with Archaeology and Cultural Anthropology for his BA degree and went on to receive training in southern African archaeology at Honours level at the University of Stellenbosch's Archaeology Department. He received specialized training in faunal osteology and Quaternary palaeontology for his MSc -degree at the Bernard Price Institute of Palaeontology (Wits) and obtained his PhD-



degree at the University of the Free State, specializing in plant microfossil research. He is currently Head of the Archaeology Department at the National Museum in Bloemfontein and a member of the Association for South African Professional Archaeologists (ASAPA) and the Palaeontological Society of Southern Africa (PSSA).

Nationality: South African

Date of Birth: 22 / 11 / 1967

ID – Number: 6711225124086

Qualification

Degrees

- Ph.D Plant Sciences, Dept. of Plant Science, 2009. University of the Free State.
- M.Sc. Quaternary Vertebrate Palaeontology (cum laude), 2001. Bernard Price Institute for Palaeontology, University of the Witwatersrand.
- B.A. (Hons.) Archaeology, 1991. University of Stellenbosch.

Formal Courses

- Theory and Practice of Stable Light Isotope Spectrometry, Stable Light Isotope Facility, University of Cape Town, RSA (June 2003)
- Gross Human Anatomy, Duke University Medical School, Durham, North Carolina, United States of America (October December 1999).

Professional Standing

- Member of and registered heritage practitioner at the Association of Southern African Professional Archaeologists (ASAPA). http://www.asapa.org.za/index.php/heritage/
- Member of the Palaeontological Society of Southern Africa (PSSA) http://www.palaeontologicalsociety.co.za/palaeontological-impact-assessments.html.
- Research Associate, Department of Plant Science, University of the Free State.

Peer-reviewed Research Publications

Rossouw, L. 2016 An Early Pleistocene phytolith record from Wonderwerk Cave, South Africa. *African Archaeological Review*. DOI 10.1007/s10437-016-9227.

- Scott, L., **Rossouw**, **L.**, Cordova, C. and Risberg, J. 2016 Palaeoenvironmental Context of Coprolites and Plant Microfossils from Unit II, Azokh 1, **In** Y. Fernandez-Jalvo *et al.* (eds.) *Azokh Cave and the Transcaucasian Corridor*. Vertebrate Paleobiology and Paleoanthropology Series. Springer.
- van Aardt, A.C, Bousman, C.B. Brink, J.S. Brook, G.A., Z. Jacobs, Z, du Preez, P.L. **Rossouw**, **L** and L. Scott, L. 2015. First chronological, palaeoenvironmental, and archaeological data from the Baden-Baden fossil spring complex in the western Free State, South Africa *Palaeoecology of Africa* 37.
- Lucinda R. Backwell, Terence S. McCarthy, Lyn Wadley, Zoë Henderson, Christine M. Steininger, Bonita deKlerk, Magali Barré, Michel Lamothe, Brian M. Chase, Stephan Woodborne, George J. Susino, Marion K. Bamford, Christine Sievers, James S. Brink, **Lloyd Rossouw**, Luca Pollarolo, Gary Trower, Louis Scott and Francesco d'Errico. 2014. Multiproxy record of late Quaternary climate change and Middle Stone Age human occupation at Wonderkrater, South Africa. *Quaternary Science Reviews* 99: 42 59.
- Chazan, M. Avery, D.M., Bamford, M.K., Berna, F., Brink, J., Fernandez-Jalvo, Y., Goldberg, P., Holt, S., Matmon, A., Porat, N., Ron, H., Rossouw, L., Scott, L. and Horwitz, L. 2012. The Oldowan horizon in Wonderwerk Cave (South Africa): archaeological, geological, paleontological and palaeoclimatic evidence. *Journal of Human Evolution* 63(6):859-66.
- Brink, J.S. Herries, A.I.R., Moggi-Cecchi, J., Gowlett, J.A.J., Bousman, C.B., Hancox, J.P., Grün, R., Eisenmann, V., Adams, J.W. and **Rossouw, L**. 2012. First hominine remains from a ~ 1.0 million year old bone bed at Cornelia-Uitzoek, Free State Province, South Africa. *Journal of Human Evolution* 63: 527-535.
- Henry, A.M., Unger, P.S. Passey, B.H., Sponheimer, M., **Rossouw, L**., Bamford M., Sandberg, P., de Ruiter D.J. and Berger, L.R. 2012. The diet of *Australopithecus sediba*. *Nature*. DOI: 10.1038/nature11185.
- Rossouw, L. and Scott, L. 2011. Phytoliths and Pollen, the Microscopic Plant Remains in Pliocene Volcanic Sediments Around Laetoli, Tanzania In: T. Harrison (ed.), *Paleontology and Geology of Laetoli: Human Evolution in Context. Volume 1: Geology, Geochronology, Paleoecology and Paleoenvironment*, Vertebrate Paleobiology and Paleoanthropology. Springer. New York.
- Fernandez-Jalvo Y. Scott, L., Carrion, J.S., Gil-Romera, G. Brink, J.S. Neumann, F. & **Rossouw**, L. 2010. Pollen taphonomy of hyaena coprolites: an experimental approach. *Zona Arqueologica Numero 13*, *Alcala de Henares. Museo Arqueologico Regional* pp. 148 157.
- **Rossouw, L.**, Stynder, D.D. and Haarhof, P. 2009. Evidence for opal phytolith preservation in the Langebaanweg 'E' Quarry Varswater Formation and its potential for palaeohabitat reconstruction. *South African Journal of Science* 105: 223 227.
- Codron, D. Brink, J.S., **Rossouw, L**., Claus, M., Codron, J., Lee-Thorp, J. and Sponheimer, M. 2008. Functional differentiation of African grazing ruminants: an example of specialized adaptations to very small changes in diet. *Biological Journal of the Linnean Society*, 2008, 94, 755–764.
- Codron, D., Brink, J.S. **Rossouw, L**. and Clauss, M. 2008. The evolution of ecological specialization in southern African ungulates: competition- or physical environmental turnover? *Oikos* 117(3): 344 353.

Rossouw, L. 2006. Florisian mammal fossils from erosional gullies along the Modder River at Mitasrust farm, central Free State, South Africa. *Navorsinge 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*. Archaeological Papers of the American Anthropological Association Vol. 16 No. 1, pp. 139-149.

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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.

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

Rossouw, L. 1996. The extraction of opal phytoliths from the fossilised teeth of two bovid species from Florisbad. *Navorsinge van die Nasionale Museum Bloemfontein* 12(8): 165 - 175.

Prins, F. & Rossouw, L. 1992. Magico-religious interactions, dreams and ritual transformations: towards a better understanding of trance experience among the Khoi. *Southern African Field Archaeology* 1(1): 33 - 39.

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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*.

Conference Contributions

Lloyd Rossouw. A grass silica short cell phytolith record for the Earlier Stone Age sequence in Wonderwerk Cave, South Africa. 23rd Biennial Conference of the Society of Africanist Archaeologists, University of Toulouse Jean Jaurès 26 – 30th June 2016.

Lloyd Rossouw, James S. Brink, Darryl Codron and Louis Scott. *C4 - grass phytoliths from the~1 my old bone bed at Cornelia-Uitzoek, Free State Province, South Africa*. "From Past to Present, changing climates, ecosystems and environments of arid Southern Africa, a tribute to Louis Scott", University of the Free State, Bloemfontein, South Africa, July 2014.

- **Lloyd Rossouw** and Louis Scott. *Multiplicity and redundancy in grass silica short cell production*. "From Past to Present, changing climates, ecosystems and environments of arid Southern Africa, a tribute to Louis Scott", University of the Free State, Bloemfontein, South Africa, July 2014.
- Britt Bousman, James Brink, Holly Meier, Daryl Codron, **Lloyd Rossouw**, and Mark Bateman. *A New Palaeoenvironmental Sequence from the western Free State*. "From Past to Present, changing climates, ecosystems and environments of arid Southern Africa, a tribute to Louis Scott", University of the Free State, Bloemfontein, South Africa, July 2014.
- Holly Meier, Britt Bousman, James Brink, Mark Bateman, Gary Trower Rainer Grün, **Lloyd Rossouw**, Daryl Codron, Christopher Bronk Ramsey, and Louis Scott. *The Middle and Late Pleistocene Alluvial Terraces with Middle and Later Stone Age occupations in the Modder River Valley, South Africa*. Geological Society of America, Charlotte, North Carolina, November 2012.
- Scott, L., **Rossouw**, L. Cordova, C., Risberg, J. and Fernandez Jalvo, Y. *Plant microfossils contents in two coprolites from Azokh Cave (Caucasus)* Hominid-carnivore interactions during the Pleistocene. International Conference, Salou Taragona, Spain 25 28 October 2011.
- Fernandez Jalvo, Y., Scott, L., Neuman, F., Gil-Romera, G., Brink, J., **Rossouw, L.**, Carrion, J.S. and Avery, G. *Hyena Scats: a key to understanding past ecosystems*. Hominid-carnivore interactions during the Pleistocene. International Conference, Salou Taragona, Spain 25 28 October 2011.
- **Rossouw, L.** Phytoliths in coprolites from the Elandsfontein Main Site, Western Cape, South Africa. Langebaanweg Symposium: Changing Landscapes and Biotas of the Cape West Coast, November 2010.
- Bousman, B., Brink, J., Tooth, S., **Rossouw, L.**, Scott, L., Grun, R., Barnett, S., Espino, M. And Trower, G. *Middle and Later Stone Age Occupations Dating to Marine Isotope Stage 3 and 4 at Erfkroon, South Africa*. Palaeoenthropology Society Meeting, St. Louis, MO, April 2010.
- **Rossouw, L.** Interpretation of grass phytolith assemblages from Excavation 1 at Wonderwerk Cave. Wonderwerk Cave Symposium, Wonderwerk Cave, Kuruman, June 2009.
- **Rossouw, L**. Grass phytoliths from Pliocene volcanic sediments at Laetoli, Tanzania. Association of Southern African Professional Archaeologists, Biennial Conference, UCT, March 2008.
- Brink, J., Grun, R., **Rossouw, L**. and Codron, D. 2007. *Mid-Quaternary large mammal succession and extinction in southern Africa*. INQUA 17th International Meeting on Quaternary Research, Cairns, Australia, July 2007.
- **Rossouw,** L. Ecological significance of short-cell phytoliths in South African grasses. SPR 6th Biennial Meeting of the Society for Phytolith Research, Barcelona, Spain, September 2006.
- Henderson, Z., Scott, L. **Rossouw, L**., Jacobs, Z. 2005. *A progress report on dating, palaeoenvironments, and archaeology of the Sunnyside I site, Clarens, South Africa*. Pan African Archaeological Association for Prehistory and Related Studies 2005. 12th Congress, Gaborone, Botswana 3- 10 July.
- Partridge, T.C., Scott, L, Norström, E., Theko, B., Risberg, J., **Rossouw, L**. and Smith, B. 2005. *A palaeo-environmental rescue project at the Bedford-Chatsworth*

wetland, eastern Free State, South Africa. South Africa. Southern African Society for Quaternary Research Congress (SASQUA 2005), Bloemfontein.

Rossouw, L. Gross morphological characteristics of short-cell phytoliths in South African grasses. SASQUA Southern African Society for Quaternary Research Congress (SASQUA 2005), Bloemfontein.

Rossouw L. Fossil grass phytoliths from two Pleistocene localities in central South Africa. SA3 Southern African Association of Archaeologists Biennial Conference, Kimberley, April 2004.

Rossouw L. Fossil grass phytoliths from two Pleistocene localities in central South Africa. Palaeontological Society of Southern Africa Biennial Conference, Bloemfontein, October 2002. (member of organizing committee).

Rossouw, L. Ecological significance of short-cell phytoliths in South African grasses. SA3 Southern African Association of Archaeologists Biennial Conference, Cape Town, July 2002.

Rossouw, L. Short-cell phytoliths in South African grasses Palaeo-Grassland Research Biennial Conference, St. Cloud, Minnesota USA, June 2002.

Rossouw, L. Florisian mammal fossils from erosional gullies along the Modder River at Mitasrust farm, central Free State, South Africa. Palaeontological Society of Southern Africa Biennial Conference, Pretoria, September, 2000.

Rossouw, L. Postcranial osteology of the extinct southern springbok <u>Antidorcas</u> australis. Palaeontological Society of Southern Africa Biennial Conference, Stellenbosch, September 1996.

Student Advisor / Examiner

Dabengwa, A. 2016. PhD Candidate, Plant Conservation Unit Palaeoecology Laboratory, Department of Biological Sciences UCT (Advisor, phytolith analysis).

Mann, N. 2016. MSc Candidate, Dept of Archaeology, UCT (Advisor, phytolith analysis).

Roelofse F. 2016. Phytoliths in a *Crocuta crocuta* coprolite from the Vet River drainage as palaeoenvironmental indicators for the Middle to Late Pleistocene in central South Africa: implications for ESA / MSA populations. Archaeology Honours Project. Dept of Archaeology, UNISA (Co-Supervisor).

Beater, J.L. 2016. Integrated Environmental Management: To what extent is this implemented in South Africa with reference to the integration of heritage—Does this result in improved management and protection of South Africa's heritage resources. Masters Degree in Environmental Management, CEM UFS (External Examiner).

Rayno, K. 2013. The Later Stone Age in the Southern Cape, South Africa during the terminal Pleistocene/early Holocene with a focus on Klipdrift Cave. PhD Thesis. Dept of Archaeology, Wits (External Examiner).

Hattingh, T. 2013. A phytolith analysis of archaeological soils from Bokoni terraces, Mpumalanga. MSc. Dissertation. Dept of Archaeology, Wits (External Examiner).

Odes, E. 2013. Establishing incidences of dental calculus and associated plant microfossils on South African Plio-Pleistocene hominin dentition. MSc. Dissertation. ESI, Wits ((External Examiner).

House, C. MSc Candidate, Dept of Archaeology, UCT (Advisor, phytolith analysis).

Trower, G. 2011. An investigation into the archaeological, palaeontological and stratigraphic continuity between two sections of the Free State's Modder River, observed within selected gullies (dongas). Masters Degree in Environmental Management, CEM UFS (External Examiner).

Selected Technical Reports 1998 - 2016

Rossouw L. 2017 Phase 1 Heritage Impact Assessment of a proposed new residential development in Norvalspont, Northern Cape Province. Report prepared for Enviroworks Environmental Consultants.

Rossouw L. 2017 Phase 1 Archaeological Impact Assessment of a proposed new 10 ha residential development in Williston, Northern Cape Province. Report prepared for Enviroworks Environmental Consultants.

Rossouw L. 2016. Phase 1 Heritage Impact Assessment of Farm Rietputs 15 near Windsorton, Northern Cape Province. Report prepared for Boscia Environmental Consultants.

Rossouw L. 2016. Phase 1 Archaeological Impact Assessment of a proposed new water pipeline and associated infrastructure between Ventersburg and the Koppie Alleen pump station, FS Province. Report prepared for Enviroworks Environmental Consultants.

Rossouw L. 2016. Phase 1 Palaeontological Impact Assessment of a proposed new water pipeline and associated infrastructure between Ventersburg and the Koppie Alleen pump station, FS Province. Report prepared for Enviroworks Environmental Consultants.

Rossouw, L. 2015. Phase 1 Palaeontological Impact Assessment for the proposed rehabilitation and refurbishment of the existing Latimer's Landing jetty at the Port of East London. 2015. Report prepared for Transnet Capital Works.

Rossouw, L. 2015. Phase 1 Archaeological and Palaeontological Impact assessment of the proposed Meerkat hydro-electric scheme on the Orange River between Douglas and Hopetown. Report prepared for Enviroworks Environmental Consultants.

Rossouw, L. 2015. Phase 1 Archaeological Impact Assessment of Intsomi Game Farm, Sundays River Valley Municipality, Eastern Cape Province. Report prepared for Public Process Consultants.

Rossouw, L. 2014. Phase 1 Archaeological Impact Assessment of a proposed residential development on the farm Fairview Ext. 15 near Prieska, NC Province. Report prepared for Terraworks Environmental Consultants.

Rossouw, L. 2014. Phase 1 Archaeological Impact Assessment of a proposed mining development on the farm Goedvooruitzicht NW Province. Report prepared for Dera Environmental.

Rossouw, L. 2014. Palaeontological Desktop Assessment for 12 new Solar Photovoltaic facilities near Dealesville, Free State Province. Report prepared for ASHA Heritage Consulting.

Rossouw, L. 2014. Phase 1 Archaeological Impact Assessment of the proposed expansion of an existing quarry near Indwe, EC Province. Report prepared for EKO Environmental Consultants.

Rossouw, L. 2014. Phase 1 Heritage Impact Assessment of a proposed new landfill site near Jagersfontein, Kopanong Local Municipality, FS Province. Report prepared for MDA Environmental Consultants.

Rossouw, L. 2014. Phase 1 HIA of Verkykerskop, Phumelela Local Municipality, FS Province Unpublished report. MDA Environmental Consultants.

Rossouw, L. 2013. Phase 1 HIA for the Provision of Marine Infrastructure, including a General Cargo Berth and Liquid Bulk Berths at the Port of Ngqura, Nelson Mandela Bay Municipality. Report prepared for the CSIR.

Rossouw, L. 2013. Phase 1 Heritage Impact Assessment of the Tom Schutte Bridge on National Route 5 near Senekal, FS Province. Terraworks Environmental Consultants.

Rossouw, L. 2013. Phase 1 Archaeological Impact Assessment of a proposed water pipeline between the farms Platkuil 172 and Wit Poort 202 near Strydenburg, NC Province. Report prepared for MDA Environmental Consultants.

Rossouw, L. 2012. Phase 1 Heritage Impact Assessment of a new gauging structure in the Little Mooi River, KZN. Report prepared for Terraworks Environmental Consultants.

Rossouw, L. 2012. Phase 1 Archaeological Impact Assessment of a proposed water pipeline between the farms Platkuil 172 and Wit Poort 202 near Strydenburg, NC Province.

Rossouw, L. 2012. Phase 1 Heritage Impact Assessment of an existing quarry and new crusher plant site at Vogel's Rand 373/0, Venterburg District, FS Province.

Rossouw, L. 2012. Phase 1 Heritage Impact Assessment of a proposed water pipeline between Madibeng and Heuningvlei, NC Province. Report prepared for Terraworks Environmental Consultants.

Rossouw, L. 2012. Phase 1 Heritage Impact Assessment of proposed storm water channels at Thabong, Matjhabeng Local Municipality, Free State Province.

Rossouw, L. 2011. Phase 1 Archaeological Impact Assessment of a gravel road upgrade in the John Taolo Gaetsewe District Municipality area, Northern Cape Province. Report prepared for Terraworks Environmental Consultants.

Rossouw, L. 2011. Phase 1 Palaeontological Impact Assessment of a proposed 66Kv Transmission Line between St Francis and Thyspunt, EC.

Rossouw, L. 2010. Phase 1 Palaeontological Impact Assessment of Section 8 of the N1 national road between Drie Sisters and Beaufort West, Western Cape Province.

Rossouw, L. 2010. Phase 1 Archaeological Impact Assessment of proposed gravel quarries on Portion 1 of Hartebees fontein 145, portions 25 and 17 of Hartebees Hoek 187 and Portions 5 and 1 of Naauwpoort 1, Noupoort District, Northern Cape Province, and Koppieskraal 6 near Middelburg, Eastern Cape Province.

Rossouw, L. 2010. Phase 1 Heritage Impact Assessment of Portion 1 of Stratherrick 186, Sterkfontein Dam Nature Reserve, Free State Province.

Rossouw, L. 2009. Phase 1 Palaeontological Impact Assessment of a proposed water pipeline near Beaufort West, Western Cape Province.

Rossouw, L and Brink, J.S. 2008. Phase 1 Palaeontological Impact Assessment of 17 gravel quarries near Middelburg, Eastern Cape Province.

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

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, 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, Palaeo-Anthropological Research Group, University of the Witwatersrand.

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

Rossouw, L. 1998. Palaeontogical and archaeological survey of the Motloutse River (bed and overbank) deposits from Bobanong to the Limpopo River, Botswana. Unpublished Report, Palaeo-Anthropological Research Group, University of the Witwatersrand.

Rossouw, L. 1998. Palaeontogical and archaeological survey of a section of the Molopo River (bed and overbank) deposits and western parts of Botswana, south of 22° 00' lattitude. Unpublished Report, Palaeo-Anthropological Research Group, University of the Witwatersrand.

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