

## DR ROSEMARY PREVEC (NEÉ ADENDORFF) PR.SCI.NAT.

r.prevec@am.org.za

Head, Department of Earth Sciences  
Albany Museum, Somerset St., Makhanda, 6139  
Research Associate, Botany Department  
Rhodes University, P.O. Box 94, Makhanda, 6140

### PUBLICATIONS: PEER-REVIEWED, ISI-LISTED JOURNALS

2024. Balarino, M.L., Gutiérrez, P.R., Prevec, R., Ruffo Rey, L.R., Cariglino, B. First palynological record for the Lebombo Basin, South Africa with implications for Guadalupian (middle Permian) palaeofloras and palaeoenvironments. *Gondwana Research* 130: 100-115, ISSN 1342-937X, <https://doi.org/10.1016/j.gr.2023.12.020>.
2023. Nel, A., Zozo, E., Garrouste, R., Prevec, R. Pereboriidae: a Permian clade of hemipteran insects with disjunctive distribution between the Northern and Southern parts of Pangea. *Acta Palaeontologica Polonica* 68 (1):85–93.
2023. Nel, A., Prevec, R. The oldest putative Prosbolid insect from Africa. *Acta Palaeontologica Polonica* 68 (1):95–102.
2023. Nel, A., Garrouste, R. & Prevec, R. The first Permian Gondwanan damselfly-like Protozygoptera (Insecta, Odonatoptera). *Historical Biology* 356(6):870–874. <https://doi.org/10.1080/08912963.2022.2067996>.
2022. Cariglino, B., Prevec, R., Lara, M.B., Zavattieri, A.M. Evidence of insect leaf mining on Late Triassic (Carnian) gymnosperms from Argentina. *Review of Palaeobotany and Palynology* 305: 104749. <https://doi.org/10.1016/j.revpalbo.2022.104749>
2022. Cawood, R., Nel, A., Garrouste, R., Moyo, S., Villet, M. H., Prevec, R. 2022. The first ‘Grylloblattida’ of the family Liomopteridae from the Middle Permian in the Onder Karoo, South Africa (Insecta: Polyneoptera). *Comptes Rendus Palevol* 21 (22): 451-461. <https://doi.org/10.5852/cr-palevol2022v21a22>
2022. Prevec, R., Nel, A., Day, M.O., Muir, R.A., Matiwane, A., Kirkaldy, A.P., Moyo, S., Staniczek, A., Cariglino, B., Maseko, Z., Kom, N., Rubidge, B.S., Garrouste, R., Holland, A., Barber-James, H.M. South African Lagerstätte reveals middle Permian Gondwanan lakeshore ecosystem in exquisite detail. *Communications Biology* 5:1154. <https://doi.org/10.1038/s42003-022-04132-y>
2021. Pretorius, A.I., Labandeira, C.C., Nel, A., Prevec, R. Latest Permian insects from Wapadsberg Pass, southern Karoo Basin, South Africa. *Austral Entomology* 60: 560–570. <https://doi.org/10.1111/aen.12540>
2021. McLoughlin, S., Prevec, R. The reproductive biology of glossopterid gymnosperms- A review. *Review of Palaeobotany and Palynology* 295(5): 104527. <https://doi.org/10.1016/j.revpalbo.2021.104527>
2020. Botha, J., Huttenlocker, A., Smith, R., Prevec, R., Viglietti, P., Modesto, S. New geochemical and palaeontological data from the Permo-Triassic boundary in the South African Karoo Basin test the synchronicity of terrestrial and marine extinctions. *Palaeogeography, Palaeoclimatology, Palaeoecology* 540: 109467. DOI: 10.1016/j.palaeo.2019.109467
2019. Dietrich, P., Franchi, F., Setlhabi, L., Prevec, R., Bamford, M.K. The non-glacial diamictite of Toutswe Mogala Hill (Lower Karoo Supergroup, Central Botswana): implications on the extent of the Late Paleozoic Ice Age in the Kalahari Karoo Basin. *Journal of Sedimentary Research* 89 (10): 875-889. DOI: 10.2110/jsr.2019.48
2019. Mcloughlin, S., Prevec, R. The architecture of Permian glossopterid ovuliferous reproductive organs. *Alcheringa: An Australasian Journal of Palaeontology*, 43(4): 480-510. DOI:10.1080/03115518.2019.1659852
2015. Muir, R.A., Bordy, E.M., Prevec, R. Lower Cretaceous deposit reveals first evidence of a post-wildfire debris flow in the Kirkwood Formation, Algoa Basin, Eastern Cape, South Africa. *Cretaceous Research* 56:161-179. DOI: 10.1016/j.cretres.2015.04.005
2015. Bordy, E.M., Prevec, R. Lithostratigraphy of the Emakwezini Formation, (Karoo Supergroup), South Africa. *South African Journal of Geology* 118:307-310. DOI:10.2113/gssajg.118.3.307
2014. Prevec, R. *Elatra*: A glossopterid fructification with a bipartite, hooded wing from the lower Permian of Madagascar and South Africa. *Review of Palaeobotany and Palynology* 210:119–139. DOI:10.1016/j.revpalbo.2014.08.006
2014. Labandeira, C.C., Prevec, R. Plant paleopathology and the roles of pathogens and insects. *International Journal of Paleopathology* 4:1-16. DOI: 10.1016/j.ijpp.2013.10.002
2011. Bordy, E.M., Linkermann, S., Prevec, R. Palaeoenvironmental aspects of some invertebrate trace fossils from the Mid-to Upper Permian Middleton Formation (Adelaide Subgroup, Beaufort Group, Karoo Supergroup), Eastern Cape, South Africa. *Journal of African Earth Sciences* 61:238-244. doi:10.1016/j.jafrearsci.2011.06.002
2011. Prevec, R. A structural re-interpretation and revision of the type material of the glossopterid ovuliferous fructification *Scutum* from South Africa. *Palaeontologia africana* 46:1-19.

19. 2011. McLoughlin, S., Slater, B., Hilton, J., Prevec, R. New vistas on animal-plant-fungal interactions in the Permian-Triassic of Gondwana. *GFF* 133, 66-67 (extended abstract).
20. 2010. Prevec, R., Gastaldo, R.A., Neveling, J., Reid, S.B., Looy, C.V. An autochthonous glossopterid flora with latest Permian palynomorphs and its depositional setting in the *Dicynodon* Assemblage Zone of the southern Karoo Basin, South Africa. *Palaeogeography, Palaeoclimatology, Palaeoecology* 292(3-4):391-408. DOI:10.1016/j.palaeo.2010.03.052
21. 2009. Prevec, R., Labandeira, C.C., Neveling, J., Gastaldo, R.A., Bamford, M.K., Looy, C.V. Portrait of a Gondwanan ecosystem: a new Late Permian locality from Kwazulu-Natal, South Africa. *Review of Palaeobotany and Palynology* 156:454-493.
22. 2009. Bordy, E.M., Prevec, R. Lithostratigraphic description of the Emakwezini Formation. *Catalogue of the South African Lithostratigraphic Units: South African Committee for Stratigraphy*.
23. 2009. Aristov, D.S., Prevec, R., Mostovski, M.B. New and poorly known grylloblattids (Insecta: Grylloblattida) from the Lopingian of the Lebombo Basin, South Africa. *African Invertebrates* 50 (2): 279-286.
24. 2008. Bordy, E.M., Prevec, R. Sedimentology, palaeontology and palaeo-environments of the Middle (?) to Upper Permian Emakwezini Formation (Karoo Supergroup, South Africa). *South African Journal of Geology* 111(4): 429-458. DOI:10.2113/gssajg.111.4.426
25. 2008. Prevec, R., McLoughlin, S., Bamford, M. Novel double wing morphology revealed in a South African ovuliferous glossopterid fructification: *Bifaria* *intermittens* (Plumstead 1958) comb. nov. *Review of Palaeobotany and Palynology* 150:22-36.
26. 2005. Gastaldo, R.A., Adendorff, R., Bamford, M., Labandiera, C.C., Neveling, J., Sims, H. Taphonomic trends of macrofloral assemblages across the Permian-Triassic boundary, Karoo Basin, South Africa. *Palaios* 20:480-498. DOI: 10.2110/palo.2004.P04-62
27. 2003. Adendorff, R., Bamford, M.K., McLoughlin, S. *Liknopetalon*: a review of a rare gondwanan, Permian pteridophyte. *Review of Palaeobotany and Palynology* 126:83-101. DOI: 10.1016/S0034-6667(03)00061-7
28. 2002. Adendorff, R., McLoughlin, S., Bamford, M.K. A new genus of ovuliferous glossopterid fructifications from South Africa. *Palaeontologia africana* 38:1-17.
29. 2000. Adendorff, R., Rijkenberg, F.H.J. Scanning electron microscopy of direct host leaf penetration by urediospore derived infection structures of *Phakopsora apoda*. *Mycological Research* 104 (3): 317-324. DOI:10.1017/S0953756299001203
30. 1995. Adendorff, R., Rijkenberg, F.H.J. New Report on rust on kikuyu grass in South Africa caused by *Phakopsora apoda*. *Plant Disease* 79:1187.

#### **PUBLICATIONS IN PEER-REVIEWED JOURNALS, NOT ISI-LISTED**

- 2021: McLoughlin, S., Prevec, R., Slater, B. Arthropod interactions with the Permian *Glossopteris* flora. *Journal of Palaeosciences* 70: 43–133.

#### **PUBLIC INTEREST PUBLICATIONS**

1. 2024. Prevec, R. 2024. Behind the scenes at the museum: The Albany Museum. *Palaeontology Newsletter*: No. 115, The Palaeontological Association.
2. 2022. First iconic photo of Earth turns 50. *Talk of the Town*, 08 December. <https://www.pressreader.com/south-africa/talk-of-the-town/20221208/281758453325689>
3. 2022. Prevec, R. Exquisite new fossils from South Africa offer a glimpse into a thriving ecosystem 266 million years ago. *The Conversation*, 22 November. <https://theconversation.com/exquisite-new-fossils-from-south-africa-offer-a-glimpse-into-a-thriving-ecosystem-266-million-years-ago-194263>
4. (*in press*) Prevec, R. Palaeontology of the Eastern Cape. *In Eastern Cape: Home of Legends*. Published by the National Heritage Council in association with the Eastern Cape Office of the Premier.
5. 2021. Hiller, N., Prevec, R., de Klerk, W.J. Landform and Geology. *In* Lubke, R., de Moor, I. (eds) *Guide to the natural and cultural history of Grahamstown / Makhanda*. WESSA, Makhanda Branch. Pp. 21 – 35.
6. 2018. Matiwane, A. and Prevec, R. Plant fossils have a lot to teach us about Earth's history. *The Conversation*, March 08. <https://theconversation.com>.
7. 2016. Prevec, R. *Glossopteris* in South Africa. *In* Anheusser, C.R., Viljoen, M.J. and Viljoen, R.P. (eds) *Africa's Top Geological Sites; 35<sup>th</sup> International Geological Congress Commemorative Volume*. Struik Nature, Cape Town. pp. 88-94.
8. 2012. The life of coal. *Quest* 8(4):26-31.
9. 2009. Prevec, R. and Bordy, E.M. Book review: *Plant–Arthropod Interactions in the Early Angiosperm History – Evidence from the Cretaceous of Israel*, edited by V. Krassilov and A. Rasnitsyn: *African Entomology* 17(1): 120-121.
10. 2006. Miller, I. and Prevec, R. Moving Fingers: Palaeobotany in the Digital Age: Unearthing the Future of Taxonomy. *Palaeontologia electronica* Vol. 9, Issue 2.3E 3p, 95KB; [http://palaeo-electronica.org/toc9\\_2.htm](http://palaeo-electronica.org/toc9_2.htm)
11. 2006. Prevec, R. The power of plants: how ancient forests drive SA's economy. *Science in Africa* Issue. 46, February. <http://scienceinafrica.co.za/2006/february/coal.htm>

## INTERNATIONAL CONFERENCE ABSTRACTS (LAST 10 YEARS)

- 2022: **Barber-James, H.M.**, Prevec, R. and B.W. Price, B.W. Integrating African Natural History specimen data; current progress and future needs. Society for the Preservation of Natural History Collections (SPNHC) 2022. Through the door and through the web: releasing the power of natural history collections onsite and online. Connecting Communities to Natural History Collections, Lecture Theatre 3, Appleton Tower, 11 Crichton Street, EH8 9LE, June 8, 2022.
- 2022: **Kirkaldy, A.P.**, Prevec, R., Barber-James, H.M. and Staniczek, A.H. 2022. The past meets the present: examining the biogeography and evolution of the plecoptera with reference to their ancient forms. 2022 XVth International Conference on Ephemeroptera and XXIst International Symposium on Plecoptera. 25-29 July 2022.
- 2019: **Dietrich, P.**, Franchi, F., Setlhabi, L., Prevec, R., Bamford, M.K. 2019. The on-glacial diamictite of Toutswevogala Hill (Lower Karoo Supergroup, Central Botswana): implications on the extent of the Late Paleozoic Ice Age in the Kalahari Karoo Basin. European Geosciences Union General Assembly 2019: 7–12 April 2019, Vienna, Austria. Oral.
- 2018: **Matiwane, A.**, Prevec, R. A new approach to *Glossopteris* leaf taxonomy embracing morphometric analyses. The Fossil Week: the 5th International Palaeontological Congress, Paris, France (July).
- 2018: **Moyo, S.**, Prevec, R., Matiwane, A., Kirkaldy, B., Nel, A. Preliminary report on the first mid-Permian ecosystem from South Africa, as revealed by a new Lagerstätte near Sutherland, Northern Cape. The Fossil Week: the 5th International Palaeontological Congress, Paris, France (July).
- 2018: **Prevec, R.**, Matiwane, A. A missing link in *Glossopteris* evolution: new species of *Lidgettonia* from a middle Permian Lagerstätte in South Africa. The Fossil Week: the 5th International Palaeontological Congress, Paris, France (July).
- 2018: Kirkaldy, B.P., Prevec, R., **Barber-James, H.**, Holland, A.J., Nel, A. Exploring the biogeography and ecology of extant Plecoptera of South Africa with reference to ancient middle Permian fossil forms from the Onder Karoo locality. Joint XV International Conference on Ephemeroptera, XIX International Symposium on Plecoptera. 03-08 June 2018, Aracruz, Brazil (June).
- 2016: **Prevec, R.** A large collection of *Rigbya arberioides* fructifications from South Africa supports glossopterid affinities. Abstract: X International Organisation of Palaeobotany Conference, 23-28 October, Salvador, Brazil. Boletín de la Asociación Latinoamericana de Paleobotánica y Palinología 16:248. ISSN 3025-0121.
- 2013: **Labandeira, C.C.** and Prevec, R. The origin and early evolution of leaf mining insects in the wake of the end-Permian ecological crisis. Geological Society of America Annual Meeting, Denver, 27-30 October.
- 2013: Spencer, K., **Gastaldo, R.A.**, Neveling, J., Prevec, R., Geissman, J.W. and Kamo, S.L. The Late Permian Stratigraphy of the basal Tweefontein section, Eastern Cape Province, South Africa. Geological Society of America Annual Meeting, Denver, 27-30 October.
- 2013: Langwenya, M., **Gastaldo, R.A.**, Neveling, J., Prevec, R., Geissman, J.W. and Kamo, S.L. The Late Permian stratigraphy of the upper Tweefontein section, Eastern Cape Province. Geological Society of America Annual Meeting, Denver, 27-30 October.
- 2012: **Geissman, J.W.**, Gastaldo, R.A., Neveling, J., Prevec, R., Kamo, S., Spencer, K., Langwenya, M. Paleomagnetism of an uppermost Permian section in the Lootsberg Pass area, central Karoo Basin: What remanence signal is recorded in the Permo-Triassic boundary sequences in the Karoo Basin? Abstract 1485197, Congress of the American Geophysical Union, San Francisco, Calif., 3-7 Dec.
- 2012: **Prevec, R.**, Sciscio, L., Looy, C. and Gastaldo, R.A.G. Well-preserved impression/compressions of *Trizygia speciosa*, including the first cones and spores of this widespread Gondwanan sphenophyte, from the Latest Permian of South Africa. International Organisation of Palaeobotany Congress, Tokyo, Japan (July).
- 2012: **Labandeira, C.C.** and Prevec, R. Insect herbivore diversification after the end-Permian crisis: evidence from leaf miners. Congress of the European Society for Evolutionary Developmental Biology, Lisbon.

## NATIONAL CONFERENCE PRESENTATIONS (LAST 5 YEARS)

- 2018: **Cawood, R.**, Moyo, S., Prevec, R, Nel, A. Palaeoenvironmental reconstruction of middle Permian ecosystems, inferred from insect fossils of ice crawlers (Grylloblattodea) from the Onder Karoo, South Africa. Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 36.
- 2018: **Dauids, L.**, Prevec, R., Matiwane, A., Nel, A. Insect fauna and associated plant–insect interactions at the Ouberg Pass and Onder Karoo locality: implications for the evolution of insect utilization of plants in the middle Permian of the Karoo Basin of South Africa. Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 43.
- 2018: **Kirkaldy, B.**, Prevec, R., Barber-James, H., Holland, A. The past meets the present: exploring the biogeography of extant Plecoptera of South Africa with reference to ancient middle Permian fossil forms from the Onder Karoo locality near Sutherland. Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 20.
- 2018: **Matiwane, A.**, Prevec, R. A new approach to *Glossopteris* leaf taxonomy embracing morphometric analyses. Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 21.

- 2018: **McKay, I.**, Mudau, M., Prevec, R., Gess, R.W., Harris, C. Collaborative palaeosciences engagement: Grahamstown Science Festival as a case study. Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 22.
- 2018: **Moyo, S.**, Prevec, R., Matiwane, A., Nel, A., Garrouste, R., Day, M.O. Preliminary report on the first mid-Permian ecosystem from South Africa, as revealed by a new Lagerstätte near Sutherland, Northern Cape. Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 23.
- 2018: **Prevec, R.**, Matiwane, A. A missing link in *Glossopteris* evolution: new species of *Lidgettonia* from a middle Permian Lagerstätte in South Africa. Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 26.
- 2018: Zozo, E., Nel, A., Garrouste, R., Moyo, S., Bellingan, T.A., Villet, M.H., Prevec, R. Phylogenetic relationships of the Permian 'cicada-like' family Pereboriidae (Insecta: Hemiptera: Pereborioidea). Proceedings of the 20th biennial conference of the Palaeontological Society of Southern Africa, Bloemfontein (July), p. 42.