

Dr EMESE M. BORDY

- *Curriculum Vitae* -



Date of Birth: 1 March 1972
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ACADEMIC QUALIFICATIONS

- Doctorate in Geology - Rhodes University – 2001
- Master of Geology - Eötvös Loránd University, Budapest, Hungary – 1998
- Post-Graduate Diploma in Higher Education (with distinction) - Rhodes University – 2006

WORK EXPERIENCE

- Associate Professor, Senior lecturer - Department of Geological Sciences, University of Cape Town 2011 – to date
- Senior lecturer, Lecturer - Department of Geology, Rhodes University 2004 – 2011
- Acting Head of Department - Department of Geology, Rhodes University 2009, 2010
- Geological consulting (coal exploration projects in the Limpopo Province, South Africa for Rio Tinto Mining & Exploration Ltd.; in Botswana for Anglo-Coal Botswana; PASA) 2006; 2009; 2011; 2012; 2017
- Student Residence Hall and House Warden - Oriel Hall, Rhodes University 2004 – 2005
- Postdoctoral research fellow - University of the Witwatersrand (BPI Palaeontology, School of Geosciences) 2002 – 2003
- Senior lecturer & acting Head of Department (for 6 months) - Department of Geology, University of Fort Hare 2001

TEACHING EXPERIENCE

- Over 19 years of teaching experience at all undergraduate levels, including foundation year.
- Over 15 years of post-graduate teaching experience at honours level (at Rhodes University, WITS and UCT).

Current Teaching at UCT (15 weeks/year):

- Clastic sedimentology - 6 weeks in 2nd and 3rd year
- Stratigraphy and Geological History of South Africa - 2 weeks in 3rd year
- Sedimentary Basin Analysis & Applied Palaeontology - 4 weeks in Honours
- Professional communication for geoscientists - 1 week in Honours
- Karoo Field Geology and Geological Mapping – 10 days in 2nd year

Formal courses taught at Rhodes University (RU), the University of the Witwatersrand and Fort Hare: Clastic and Carbonate Sedimentology, Basin Analysis, Sequence Stratigraphy, Hydrogeology, Stratigraphy, South African Geology, Palaeontology, Physical Geomorphology, and parts of Introduction to Earth Sciences (Stratigraphy, Palaeontology and Sedimentology). I have been nominated for the UCT Distinguished Teacher award by several students.

SUPERVISION

To date, I have graduated a total of 45 PhD, MSc and honours students and trained over 18 undergraduate students as research assistants. Students under my supervision regularly win prestigious academic awards and competitions (e.g., Lara Sciscio, Robert Muir, Mhairi Reid, Francisco Paiva). Since my arrival at UCT in 2011, I have established the Sedimentology-Palaeontology Research Group, which has on average ~10-15 members including post-graduate students and post-doctoral researchers. The outstanding productivity of the group is attested by the high number of co-published papers. The impact of our group may also be highlighted, among others, by the fact that the results from these projects were presented as talks and posters and met positively at several international and local conferences (>30 events since 2013).

I have also been successful in securing external funding for research and post-graduate bursaries. Between 2012 and 2017, I have been single-handedly in charge of a research budget of more than R4 million. This amount is only the running costs and excludes the student assistantships and grant holder linked bursaries, which assisted the studies of the postgraduate students whom I work with in this group.

RESEARCH EXPERIENCE

I am a NRF rated researcher (C1) and main research interest lies within the Palaeozoic and Mesozoic deposits of southern Africa with a strong focus on the quantification of the climatic and tectonic signatures in sedimentation and biogeographic processes. I enjoy applying clastic sedimentology, continental ichnology, geochemistry, and stratigraphy to the high-resolution reconstruction of ancient continental ecosystems spanning the entire Phanerozoic record of South Africa. My publication record reflects a passion not only for applying sedimentology, stratigraphy, and palaeontology to palaeoenvironmental reconstructions in fluvio-lacustrine to shallow marine settings, but also for integrating multidisciplinary observations at various scales to obtain robust palaeoecological snapshots of the geological past. My work is supported by the diverse background of my collaborators, who are local and international experts in palaeontology (palaeobotany, vertebrate palaeontology, taphonomy, ichnology), palaeomagnetism, geochronology, fluid inclusions, and low-temperature geochemistry.

INVOLVEMENT IN WORK ENVIRONMENT AND COMMUNITY

TEACHING RELATED:

- External and internal examiner of several PhD theses, well over 10 MSc dissertations, over 30 Honours projects and undergraduate curriculum (University of Johannesburg; University of the Witwatersrand; James Cook University; Nelson Mandela Metropolitan University; Eötvös L. University; University of Fort Hare; Rhodes University; University of Cape Town);
- Curriculum Advisor for Geology, Archaeology and Oceanography undergraduate students at University of Cape Town;
- Panel member of the Departmental Review Committee of the Department of Geology, University of Johannesburg;
- Field course coordinator (academic and logistical preparation and running of field courses) at 1st & 2nd year levels;
- Departmental course coordinator for the UCT Applied Palaeontology Honours module and the 1st & 2nd year courses at Rhodes University;
- Departmental representative in the Science Faculty Teaching and Learning Committee (member of the Lecturer Evaluation as well as Lecture Attendance Subcommittees);
- Portfolio assessor of lecturing staff at Rhodes University for personal promotion and tenure;
- Panel member on Higher Education Fora: 2009 - Quantitative Literacy Panel of the National Benchmark Tests Project; 2007 - invited presenter: PGDHE class, Centre for Higher Education Research, Teaching and Learning, Rhodes University; 2006 - New Lecturers' Orientation, Rhodes University;
- Programme Planning - Faculty of Science, University of Fort Hare/ Writing of Applied Physical and Earth Science Programmes & Participating in workshop on Quality Enhancement in Higher Education;
- Departmental representative in the Science Undergraduate Teaching Working Group (Rhodes University);
- Visiting lecturer at Rhodes University (2002; 2003); University of the Witwatersrand (2003); UCT (2010).

RESEARCH RELATED:

- Council member of the International Association of Sedimentologists and the Society for Sedimentary Geology (elected to both positions in 2018)
- Secretary of the Palaeontological Society of Southern Africa (elected member of the Executive Committee in 2018)
- Chairperson (since 2007) of the Karoo Working Group South African Committee for Stratigraphy
- Chair of the Local Organizing and Scientific Committee for the 2nd Continental Ichnology Conference – October 2017
- Elected to the Fellowship of the Geological Society of South Africa (since 2015)
- Associate Editor (since early 2006) at PALAIOS - a bimonthly journal published by the Society for Sedimentary Geology dedicated to emphasizing the impact of life on Earth history
- Associate Editor (2008, 2009, 2011, 2013) at the South African Journal of Geology - peer-reviewed journal of the Geological Society of South Africa since 1895
- South African Correspondent for the International Association of Sedimentologists (2010-2017)
- Country Ambassador for the Society for Sedimentary Geology (2012-2017)
- 'Sedimentary Processes - ancient to modern' Theme Champion by the invitation of the Scientific Programme Committee of the 35th International Geological Congress – 2016
- Reviewer of over 30 manuscripts at various journals (e.g., Palaeogeography, Palaeoclimatology, Palaeoecology; Journal of Sedimentary Research; PALAIOS; Journal of African Earth Science; South African Journal of Geology; Palaeontologia Africana)
- Regular reviewer of research proposals: USA National Science Found; RSA National Research Foundation
- Regular session chair at scientific conferences: 35th International Geological Congress; 4th International Workshop on Ichnotaxonomy, Russia; 16th Biennial Conference of the Palaeontological Society of Southern Africa, South Africa; 1st International Congress on Continental Ichnology, Morocco; Cape-Karoo Imbizo; Port Elizabeth, South Africa

- Invited presenter at conferences: sedimentary facies analysis for palaeontologists (19th Biennial Conference of the Palaeontological Society of Southern Africa); Karoo shale gas (Centre for Minerals Research - cmr.uct.ac.za)
- Invited speaker on various geology topics: Rotary Club; ProBus, etc.
- Invited speaker as expert sedimentologist by: PetroSA; South African Centre for Carbon Capture & Storage; iThemba Labs; etc.
- Invited instructor in sedimentology & basin analysis methods at: Anglo-Coal Botswana; Petroleum Agency of South Africa
- Advisor on museum displays (e.g., BPI Palaeontology; Valley of Desolation, Graaff-Reinet)
- Member of the Cape Working Group South African Committee for Stratigraphy (2014-2016)
- Member of the at the Pilot CO₂ Storage Project at the South African Centre for Carbon Capture & Storage (2014-2016)
- Member of the Karoo Research Initiative - since 2013
- Member of the Karoo Shale Gas 'task team' at UCT
- Professional Memberships: International Association of Sedimentologists since 2011; International Association of Ichnologists since 2011; Society for Sedimentary Geology since 2015; Geological Society of South Africa since 2003; Palaeontological Society of Southern Africa since 2003; Hungarian Geological Society (1992-1998; 2018)

ADMINISTRATION RELATED:

- Regular panel member on several Recruitment and Selection Committees at UCT & Rhodes University;
- Member of Board of the Faculty of Science at UCT and Rhodes University (2004-2011); Board of Residences (2004-2005); Board of Residences Executive Committee (2005); Emergency Services Planning Committee (2005) at Rhodes University.

PUBLICATION RECORD

Conference abstracts

To date, I have produced ~130, mostly peer-reviewed conference abstracts, and most of them, I co-authored with my postgraduate students. For a list of the abstracts, see

https://www.dropbox.com/s/qbd7hl5yek09mfl/Bordy%20abstracts_all%20up%20to%20oct%202018.docx?dl=0

I firmly believe that presenting at scientific conferences effectively advances students' professional development, and therefore I actively promote their participation not only in advising them scientifically prior to these events, but also by securing funds for attending them.

Peer-reviewed publications

I currently have 57 ISI-listed research papers and book chapters, which attracted >725 citations (over 50% in the past 5 years). My H-index is 17. The publications are listed on the next four pages. The PDFs of my publications are here:

https://www.dropbox.com/sh/p0hevwxjsa5yhb/AABx_onoxP_-IMMZPbZtdhHha?dl=0

Peer-reviewed publications (* denotes student or postdoctoral authors):

1. Bordy, E.M., Bowen, D. *, Moore, J., Garnett, M., Tsikos, H. 2018. A Holocene “frozen accident”: Wildfire-related flood and megaflood sediments in the bedrock-confined Huis River, Western Cape, South Africa. *Journal of Sedimentary Research* **88**: 696–716 • doi:10.2110/jsr.2018.29
2. Bordy, E.M. 2018. Introduction and a brief history of ichnological research in southern Africa. In Bordy, EM (ed.) Proceedings of the 2nd International Conference of Continental Ichnology (ICCI 2017), Nuy Valley (Western Cape Winelands), 1-8 October 2017. *Palaeontologia africana* vol 52, p. 131-133. — ISSN 2410-4418 <https://hdl.handle.net/10539/24150>
3. Bordy, E. M., Meyer, Ch. A; Belvedere, M. 2018. Foreword to the Special Volume on Continental Ichnology ICCI 2017; *Annales Societatis Geologorum Poloniae* **88**: 87 – 90. doi: 10.14241/asgp. 2018.016
4. Rampersadh*, A., Bordy, E. M., Sciscio, * L., Abrahams, * M., 2018. Dinosaur behaviour in an Early Jurassic palaeoecosystem - uppermost Elliot Formation, Ha Nohana, Lesotho. *Annales Societatis Geologorum Poloniae* **88**: 163 – 179. doi: <https://doi.org/10.14241/asgp.2018.010>
5. McPhee, B.W., Benson, R.B., Botha-Brink, J., Bordy, E.M., Choiniere, J.N. 2018. A giant dinosaur from the earliest Jurassic of South Africa and the transition to quadrupedality in early sauropodomorphs. *Current Biology*. <https://doi.org/10.1016/j.cub.2018.07.063>
6. Reid. M.*, Bordy, E.M., Taylor, W., le Roux, S.G., du Plessis, A. 2018. A micro X-ray computed tomography dataset of fossil echinoderms in an ancient obrution bed: a robust method for taphonomic and palaeoecologic analyses. *GigaScience*, giy156, <https://doi.org/10.1093/gigascience/giy156> (Published: 07 December 2018)
7. Chukwuma*, K. Bordy, E.M., Coetzer, A. 2018. Evolution of porosity and pore geometry in the Permian Whitehill Formation of South Africa – A FE-SEM image analysis study. *Marine and Petroleum Geology* **91**: 262-278 • doi: 10.1016/j.marpetgeo.2017.12.026
8. Bordy, E.M. 2018. Lithostratigraphy of the Tshidzi Formation (Dwyka Group, Karoo Supergroup), South Africa. *South African Journal of Geology* **121.1**: 109-118 • <https://doi.org/10.25131/sajg.121.0008>
9. Bordy, E.M., Head, H.* 2018. Lithostratigraphy of the Clarens Formation (Stormberg Group, Karoo Supergroup), South Africa. *South African Journal of Geology* **121.1**: 119-130 • <https://doi.org/10.25131/sajg.121.0009>
10. Falkingham, P.L., Bates, K. T., Avanzini, M., Bennett, M., Bordy, E.M., Breithaupt, B. H., Castanera, D., Citton, P., Díaz-Martínez, I., Farlow, J. O., Fiorillo, A. R., Gatesy, S. M., Getty, P., Hatala, K. G., Hornung, J. J., Hyatt, J. A., Klein, H., Lallensack, J. N., Martin, A. J., Marty, D., Matthews, N. A., Meyer, Ch. A., Milàn, J., Minter, N. J., Razzolini, N.L., Romilio, A., Salisbury, S.W., Sciscio*, L., Tanaka, I., Wiseman, A.L.A., Xing, L. D., Belvedere, M. 2018. A standard protocol for documenting modern and fossil ichnological data. *Palaeontology* **61**: 469–480 • doi: 10.1111/pala.12373
11. Backwell, L.R., d’Errico, F., Banks, W.E., de la Peña, P., Sievers, C., Stratford, D., Lennox, S.J., Wojcieszak, M., Bordy, E.M., Bradfield, J., Wadley, L. 2018. New excavations at Border Cave, KwaZulu-Natal, South Africa. *Journal of Field Archaeology* **43**: 417-436. doi:10.1080/00934690.2018.1504544
12. Krummeck*, D.W., Bordy, E.M. 2018. *Reniformichnus katikatii* (new ichnogenus and ichnospecies): continental vertebrate burrows from the Lower Triassic, main Karoo Basin, South Africa. *Ichnos* **25**: 138-149. doi: 10.1080/10420940.2017.1292909
13. Bordy, E.M., Abrahams*, M., Sciscio*, L. 2017. The Subeng vertebrate tracks: stratigraphy, sedimentology and a digital archive of a historic Upper Triassic palaeosurface (lower Elliot Formation), Leribe, Lesotho (southern Africa). *Bollettino della Società Paleontologica Italiana* **56**: 181-198. doi:10.4435/BSPI.2017.12.

14. Sciscio* L, Bordy EM, Abrahams* M, Knoll F, McPhee* BW 2017. The first megatheropod tracks from the Lower Jurassic upper Elliot Formation, Karoo Basin, Lesotho. *PLoS ONE*12(10): e0185941. <https://doi.org/10.1371/journal.pone.0185941>
15. McPhee*, B.W.; Bordy, E.M.; Sciscio*, L.; Choiniere, J.N., 2017. The sauropodomorph (Dinosauria) biostratigraphy of the Elliot Formation of southern Africa: tracking the evolution of Sauropodomorpha across the Triassic–Jurassic boundary. *Acta Palaeontologica Polonica* 63: 441-465. doi: 10.4202/app.00377.2017
16. Sciscio*, L., de Kock, M., Bordy, E.M. and Knoll, F. 2017. Magnetostratigraphy across the Triassic-Jurassic boundary in the main Karoo Basin. *Gondwana Research* 51: 177-192. doi: 10.1016/j.gr.2017.07.009
17. Abrahams*, M., Bordy, E.M., Sciscio*, L., Knoll, F. 2017. Scampering, trotting, walking tridactyl bipedal dinosaurs in southern Africa: ichnological account of a Lower Jurassic palaeosurface (upper Elliot Formation, Roma Valley). *Historical Biology*. 1-18. **DOI:** doi:10.1080/08912963.2016.1267164
18. Sciscio*, L.; Knoll, F.; Bordy, E.M.; de Kock, M.; Redelstorff, R. 2017. Digital reconstruction of the mandible of an adult *Lesothosaurus diagnosticus* with insight into the tooth replacement process and diet. *PeerJ* 5:e3054; doi: 10.7717/peerj.3054
19. Bordy E.M., Spelman* S., Cole D.I., Mthembu P. 2017. Lithostratigraphy of the Pietermaritzburg Formation (Ecca Group, Karoo Supergroup), South Africa. *South African Journal of Geology* **120.2**: 293-302 • doi:10.2113/gssajg.120.2.293
20. Muir, R.*, Bordy, E.M., Reddering, J.S.V.; Viljoen, J.H.A. 2017. Lithostratigraphy of the Kirkwood Formation (Uitenhage Group), including the Bethelsdorp, Colchester and Swartkops Members, South Africa. *South African Journal of Geology* **120.2**: 281-293 • doi:10.2113/gssajg.120.2.281
21. Muir, R.*, Bordy, E.M., Reddering, J.S.V.; Viljoen, J.H.A. 2017. Lithostratigraphy of the Enon Formation (Uitenhage Group), South Africa. *South African Journal of Geology* **120.2**: 273-280 • doi:10.2113/gssajg.120.2.273
22. Bordy, E.M., Sciscio*, L., Abdala, F., McPhee*, B., Choiniere, J. 2016. First Lower Jurassic vertebrate burrow from southern Africa (upper Elliot Formation, Karoo Basin, South Africa). *Palaeogeography, Palaeoclimatology, Palaeoecology*. 468, pp.362-372 **DOI:** 10.1016/j.palaeo.2016.12.024
23. Bordy, E.M., Head, H.*, Runds, M.J.* 2016. Palaeoenvironment and provenance in the early Cape Basin of southwest Gondwana: sedimentology of the Lower Ordovician Piekenierskloof Formation, Cape Supergroup, South Africa. *South African Journal of Geology* **119.2**: 399-414. **DOI:** 10.2113/gssajg.119.2.399
24. Bordy, E.M., Abrahams*, M. 2016. Geochemistry of the Pronksberg bentonite in the upper Elliot Formation (Early Jurassic), Eastern Cape, South Africa. In: Linol B and de Wit M (eds) Origin and Evolution of the Cape Mountains and Karoo Basin: Geo-biohistory in a terrain with shale gas resources and need for conservation. Part of the series Regional Geology Reviews 8643: pp. 119-127. Springer Verlag. **DOI: 10.1007/978-3-319-40859-0_12**
25. Bordy, E.M., America*, T. 2016. Sedimentology of granite boulder conglomerates and associated clastics in the onshore section of the Late Mesozoic Pletmos Basin (Western Cape, South Africa). *Journal of African Earth Sciences* **119**: 67-77. **DOI:** 10.1016/j.jafrearsci.2016.03.013
26. Bordy, E.M., Krummeck*, DW. 2016. Enigmatic continental burrows from the Early Triassic transition of the Katberg and Burgersdorp formations in the main Karoo Basin, South Africa. *PALAIOS* **31**, 389–403. **DOI:** 10.2110/palo.2016.021
27. Sciscio*, L. Bordy, E.M., 2016. Palaeoclimatic conditions in the Late Triassic-Early Jurassic of southern Africa: a geochemical assessment of the Elliot Formation. *Journal of African Earth Sciences* **119**: 102-119.
28. Sciscio*, L., Bordy, E.M., Reid*, M., Abrahams*, M. 2016. Sedimentology and ichnology of the Mafube dinosaur track site (Lower Jurassic, eastern Free State, South Africa): a report on footprint preservation and palaeoenvironment. *PeerJ* 4:e2285; **DOI 10.7717/peerj.2285**

29. Chukwuma*, K. Bordy, E.M., 2016. Spatiotemporal sedimentary facies variations in the Permian Whitehill Formation, main Karoo Basin. In: Linol B and de Wit M (eds) Origin and Evolution of the Cape Mountains and Karoo Basin: Geo-biohistory in a terrain with shale gas resources and need for conservation. Part of the series Regional Geology Reviews 8643: pp.101-110 Springer Verlag. DOI: 10.1007/978-3-319-40859-0_10
30. Bordy, E.M., Eriksson, P., 2015. Lithostratigraphy of the Elliot Formation (Karoo Supergroup), South Africa. *South African Journal of Geology* **118.3**: 311-316.
31. Bordy, E.M., Prevec, R., 2015. Lithostratigraphy of the Emakwezini Formation (Karoo Supergroup), South Africa. *South African Journal of Geology* **118.3**: 307-310.
32. Muir, R.*, Bordy, E.M., Prevec, R. 2015. 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.
33. Reid. M.*, Bordy, E.M., Taylor, W. 2015. Taphonomy and sedimentology of an echinoderm obrution bed in the Lower Devonian Voorstehoek Formation (Bokkeveld Group, Cape Supergroup) of South Africa. *Journal of African Earth Sciences* **110**: 135–149.
34. Smithard, T.*, Bordy, E.M., Reid, D. 2015. The effect of dolerite intrusions on the hydrocarbon potential of the Lower Permian Whitehill Formation (Karoo Supergroup) in South Africa and Namibia: a preliminary study. *South African Journal of Geology* **118. 4**: 489-510.
35. Baucon, A., Bordy, E., et al. (2012). A History of Ideas in Ichnology. In: Trace Fossils as Indicators of Sedimentary Environments (eds. Knaust, D., Bromley, R. G.) Developments in Sedimentology, Vol. 64. Elsevier B.V., pp. 3-42. <http://dx.doi.org/10.1016/B978-0-444-53813-0.00001-0>
36. Bordy, E.M., Linkermann S.* and Prevec, R. (2011). Palaeoecological 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
37. Bordy, E. M., Sztanó, O., Rubidge, B.S. and Bumby, A. (2011). Early Triassic vertebrate burrows from the Katberg Formation of the south-western Karoo Basin, South Africa. *Lethaia* 44: 33–45. DOI 10.1111/j.1502-3931.2010.00223.x
38. Bordy, E.M., Segwabe, T.* and Makuke, B.* (2010). Sedimentology of the Upper Triassic - Lower Jurassic (?) Mosolotsane Formation (Karoo Supergroup), Kalahari Karoo Basin, Botswana. *Journal of African Earth Sciences* 58:127–140.
39. Bordy, E.M., Knoll, F. and Bumby, A. (2010) New data on the palaeontology and sedimentology of the Lower Jurassic Lisbon Formation (Karoo Supergroup), Ellisras Basin, South Africa. – Neues Jahrbuch für Geologie und Paläontologie Abh., DOI: 10.1127/0077-7749/2010/0091; Stuttgart. p. 1-11.
40. Bordy, E. M., Sztanó, O., Rubidge, B.S. and Bumby, A. (2009). Tetrapod Burrows in the southwestern main Karoo Basin (Lower Katberg Formation, Beaufort Group), South Africa. Extended Abstracts of the 15th Biennial Conference of the Palaeontological Society of Southern Africa. September 11-14, Matjiesfontein, South Africa. *Palaeontologia Africana* 44: 95–99.
41. Bordy, E.M., Bumby, A., Catuneanu, O. and Eriksson, P.G. (2009). Possible trace fossils of putative termite origin in the Lower Jurassic (Karoo Supergroup) of South Africa and Lesotho. *South African Journal of Science* 105: 356-362.
42. Hanson, E.K. *, Moore, J.M., Bordy, E.M., Marsh, J.S., Howarth G. and Robey, J. (2009). Cretaceous Erosion in Central South Africa: Evidence from Upper-Crustal Xenoliths in Kimberlite Diatremes. *South African Journal of Geology* 112: 125-140.
43. Bordy, E.M. and Prevec, R. (2008). Sedimentology, palaeontology and palaeo-environments of the Middle (?) to Upper Permian Emakwezini Formation (Lebombo Basin, South Africa). *South African Journal of Geology*, 111 (4): 429-458.

44. Bordy, E.M. (2008). Enigmatic trace fossils from the Lower Jurassic Clarens Formation, southern Africa. *Palaeontologia Electronica*, 11/3; 16A: 16p; http://palaeo-electronica.org/2008_3/150/index.html
45. Bordy, E.M., Hancox, P.J., Rubidge, B.S. (2005). The contact of the Molteno and Elliot formations through the main Karoo Basin, South Africa: a second-order sequence boundary. *South African Journal of Geology*, 108, 349-362.
46. Bordy, E. M., Bumby, A., Catuneanu, O., Eriksson, P.G. (2005). Reply to a Comment on Advanced Early Jurassic Termite (Insecta: Isoptera) Nests: Evidence from the Clarens Formation in the Tuli Basin, Southern Africa. (Bordy et al., 2004). *Palaaios*, 20, 307-311.
47. Bordy, E.M., Hancox, P.J., Rubidge, B.S. (2005). A Reply - Turner, B.R. and Thomson, K., Discussion on 'Basin development during deposition of the Elliot Formation (Late Triassic – Early Jurassic), Karoo Supergroup, South Africa (South African Journal of Geology, 107, 397-412). *South African Journal of Geology*, 108, 19-34.
48. Parizot, M., Eriksson, P. G., Aifa, T., Sarkar, S., Banerjee, S., Catuneanu, O., Altermann, W. Bumby, A. J., **Bordy**, E. M., van Rooy J. L., and Boshoff A. J. (2005) Suspected microbial mat-related crack-like sedimentary structures in the Palaeoproterozoic Magaliesberg Formation sandstones, South Africa. *Precambrian Research*, 138, 274-296.
49. Bordy, E. M., Hancox, P.J., Rubidge, B. S. (2004). Basin development during the deposition of the Elliot Formation (Late Triassic - Early Jurassic), Karoo Supergroup, South Africa. *South African Journal of Geology*, 107, 395-410.
50. Bordy, E. M., Hancox, P. J., Rubidge, B. S. (2004). Fluvial style variations in the Late Triassic - Early Jurassic Elliot Formation, main Karoo Basin, South Africa. *Journal of African Earth Sciences*, 38, 383–400.
51. Bordy, E. M., Hancox, P.J., Rubidge, B.S. (2004). Provenance Study of the Late Triassic – Early Jurassic Elliot Formation, main Karoo Basin, South Africa. *South African Journal of Geology*, 107, 587-602.
52. Bordy, E.M., Hancox, P.J., Rubidge, B.S. (2004). A description of the sedimentology and palaeontology of the Upper Triassic - Lower Jurassic Elliot Formation in Lesotho. *Palaeontologia Africana*, 40, 43-58.
53. Bordy, E. M., Bumby, A., Catuneanu, O., Eriksson, P.G. (2004). Advanced Early Jurassic Termite (Insecta: Isoptera) Nests: Evidence from the Clarens Formation in the Tuli Basin, Southern Africa. *Palaaios*. 19/2, 68-78.
54. Bordy, E. M., Catuneanu, O. (2002). Sedimentology of the lower Karoo Supergroup fluvial strata in the Tuli Basin, South Africa. *Journal of African Earth Sciences*, 35/4, 503-521.
55. Bordy, E. M., Catuneanu, O. (2002). Sedimentology and Palaeontology of upper Karoo aeolian strata (Early Jurassic) in the Tuli Basin, South Africa. *Journal of African Earth Sciences*, 35/2, 301-314.
56. Bordy, E. M., Catuneanu, O. (2002). Sedimentology of Beaufort-Molteno Karoo fluvial strata in the Tuli Basin, South Africa. *South African Journal of Geology*, 105 (1), 51-66.
57. Bordy, E. M., Catuneanu, O. (2001). Sedimentology of the upper Karoo fluvial strata in the Tuli Basin, South Africa. *Journal of African Earth Sciences*, 33/3-4, 605-629.

Book reviews:

1. Bordy, E.M. (2008). Book review: Trace Fossils: Concepts, Problems, Prospects, edited by William Miller III: *Palaaios*, DOI: 10.2110/palo.2008.BR25.
2. Prevec, R. and Bordy, E.M. (2009). 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.