

# 57 Prof. Paul Wignall



Name: Paul Wignall

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## Work Experience

2005 Professor of Palaeoenvironments, University of Leeds

1999-2005 Reader in Palaeoenvironments, University of Leeds

1989-1999 Lecturer in Palaeontology, University of Leeds

1988-1989 NERC Postdoctoral Fellow, University of Leicester

1985-1988 NERC/CASE PhD student, University of Birmingham/Natural History Museum.

1982-1985 Student, Worcester College, University of Oxford.

## Research Interests

palaeontology and sedimentology

## Services & Awards

2008-2009. Royal Society Leverhulme Advanced Fellowship.

2005-2006. Royal Society – Kan Tong Po Visiting Professor, Hong Kong University.

2006. Geological Society of America. Geology Exceptional Reviewer.

2004. The James Lee Wilson Award, for excellence in sedimentology from the Society for Sedimentary Geology (SEPM).

1997. The Clough Award, Edinburgh Geological Society.

1991. President's Award, Geological Society, London, for outstanding research by a young scientist.

1989. Fearnshides Prize, Yorkshire Geological Society, outstanding young scientist.

1988. Cecil Barber Prize from Birmingham University for best PhD in Earth Sciences.

1985. Geology degree, 1st Class, University of Oxford.

1983-85 Open Scholarship, Worcester College, Oxford University.

## Committee Responsibilities and Professional Activities

2014 Member of REF Review Panel B7

2010-2012 External Examiner University College London, Earth Sciences BSc and MSci earth science degrees.

2009-2010 President Yorkshire Geological Society.

2008-2012: NERC peer review panel.

2007-2008 President of the Leeds Geological Association.

2006-2008 External Examiner, MSci degree schemes, University of Durham Earth Sciences.

2005-2008 Director of the Institute of Geological Sciences, University of Leeds.

2005: External Examiner Royal Holloway

2003-2008: Steering Committee of LIP Commission.

1992-1997 & 1999-2005 Programme Secretary of the Yorkshire Geological Society.

1990- Co-founder of the Craven and Pendle Geological Society.  
1989-1992. Marketing Manager, Palaeontological Association.  
2010 – present: Managing editor Earth-Science Reviews 2010-present  
2010 – present: Editorial Board. Geoscience Frontiers.  
2008-present: Editorial Board, Chemical Geology.  
2005-2008: Editorial Board Geobiology.  
2004-2007: Editorial board Geology.  
2002-present: Editorial Board Geological Magazine  
2001 – 2012: Series Editor, Developments in Palaeontology and Stratigraphy, Elsevier  
1997-present: Editorial board: Palaeogeography Palaeoclimatology Palaeoecology.

### **Major Publications**

- Sun, Y. D., Wignall, P. B., Joachimski, M. M., et al., 2016. Climate warming, euxinia and carbon isotope perturbations during the Carnian (Triassic) Crisis in South China, Earth and Planetary Science Letters, 444, pp.88-100. doi: 10.1016/j.epsl.2016.03.037
- Witts, J. D., Whittle, R. J., Wignall, P. B., et al., 2016. Macrofossil evidence for a rapid and severe Cretaceous-Paleogene mass extinction in Antarctica, Nature Communications, 7, . doi: 10.1038/ncomms11738
- Wignall, P. B., Van De Schootbrugge, B., 2016. Middle Phanerozoic mass extinctions and a tribute to the work of Professor Tony Hallam, Geological Magazine, 153, pp.195-200. doi: 10.1017/S0016756815000199
- Ruffell, A., Simms, M. J., Wignall, P. B., 2016. The Carnian Humid Episode of the late Triassic: A review, Geological Magazine, 153, pp.271-284. doi: 10.1017/S0016756815000424
- Song, H., Tong, J., Wignall, P. B., et al., 2016. Early Triassic disaster and opportunistic foraminifers in South China, Geological Magazine, 153, pp.298-315. doi: 10.1017/S0016756815000497
- Van De Schootbrugge, B., Wignall, P. B., 2016. A tale of two extinctions: Converging end-Permian and end-Triassic scenarios, Geological Magazine, 153, pp.332-354. doi: 10.1017/S0016756815000643
- Wignall, P. B., Bond, D. P. G., Sun, Y., et al., 2016. Ultra-shallow-marine anoxia in an Early Triassic shallow-marine clastic ramp (Spitsbergen) and the suppression of benthic radiation, Geological Magazine, 153, pp.316-331. doi: 10.1017/S0016756815000588
- Bijkerk, J. F., Eggenhuisen, J. T., Kane, I. A., et al., 2016. Fluvio-Marine Sediment Partitioning as a Function of Basin Water Depth, Journal of Sedimentary Research, 86, pp.217-235. doi: 10.2110/jsr.2016.9
- Van De Schootbrugge, B., Wignall, P. B., 2016. Special Issue Mass Extinctions - Preface, Geological Magazine, 153, pp.193-194. doi: 10.1017/S0016756815001107
- Grasby, S. E., Beauchamp, B., Bond, D. P. G., et al., 2016. Mercury anomalies associated with three extinction events (Capitanian Crisis, Latest Permian Extinction and the Smithian/Spathian Extinction) in NW Pangea, Geological Magazine, 153, pp.285-297. doi: 10.1017/S0016756815000436
- Wang, L., Wignall, P. B., Wang, Y., et al., 2016. Depositional conditions and revised age of the Permo-Triassic microbialites at Gaohua section, Cili County (Hunan Province, South China), Palaeogeography, Palaeoclimatology, Palaeoecology, 443, pp.156-166. doi: 10.1016/j.palaeo.2015.11.032

- Yin, D., Peakall, J., Parsons, D., et al., 2016. Bedform genesis in bedrock substrates: Insights into formative processes from a new experimental approach and the importance of suspension-dominated abrasion, *Geomorphology*, 255, pp.26-38. doi: 10.1016/j.geomorph.2015.12.008
- Jerram, D. A., Widdowson, M., Wignall, P. B., et al., 2016. Submarine palaeoenvironments during Emeishan flood basalt volcanism, SW China: Implications for plume-lithosphere interaction during the Capitanian, Middle Permian ('end Guadalupian') extinction event, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 441, pp.65-73. doi: 10.1016/j.palaeo.2015.06.009
- Schmidt, A., Skeffington, R. A., Thordarson, T., et al., 2016. Selective environmental stress from sulphur emitted by continental flood basalt eruptions, *Nature Geoscience*, 9, pp.77-82. doi: 10.1038/ngeo2588
- Jiang, H., Joachimski, M. M., Wignall, P. B., et al., 2015. A delayed end-Permian extinction in deep-water locations and its relationship to temperature trends (Bianyang, Guizhou Province, South China), *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440, pp.690-695. doi: 10.1016/j.palaeo.2015.10.002
- Grasby, S. E., Beauchamp, B., Bond, D. P. G., et al., 2015. Progressive environmental deterioration in northwestern Pangea leading to the latest Permian extinction, *Geological Society of America Bulletin*, 127, pp.1331-1347. doi: 10.1130/B31197.1
- Song, H., Wignall, P. B., Tong, J., et al., 2015. Integrated Sr isotope variations and global environmental changes through the Late Permian to early Late Triassic, *Earth and Planetary Science Letters*, 424, pp.140-147. doi: 10.1016/j.epsl.2015.05.035
- Sun, Y. D., Wignall, P. B., Joachimski, M. M., et al., 2015. High amplitude redox changes in the late Early Triassic of South China and the Smithian-Spathian extinction, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 427, pp.62-78. doi: 10.1016/j.palaeo.2015.03.038
- Witts, J. D., Bowman, V. C., Wignall, P. B., et al., 2015. Evolution and extinction of Maastrichtian (Late Cretaceous) cephalopods from the López de Bertodano Formation, Seymour Island, Antarctica, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 418, pp.193-212. doi: 10.1016/j.palaeo.2014.11.002
- Bond, D. P. G., Wignall, P. B., Joachimski, M. M., et al., 2015. An abrupt extinction in the Middle Permian (Capitanian) of the Boreal Realm (Spitsbergen) and its link to anoxia and acidification, *Bulletin of the Geological Society of America*, 127, pp.1411-1421. doi: 10.1130/B31216.1
- Metodiev, L., Savov, I. P., Grocke, D., et al., 2014. Palaeoenvironmental conditions recorded by  $^{87}\text{Sr}/^{86}\text{Sr}$ ,  $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  in Late Pliensbachian-Toarcian (Jurassic) belemnites from Bulgaria, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 409, pp.98-113. doi: 10.1016/j.palaeo.2014.04.025
- Fletcher, T., Altringham, J., Peakall, J., et al., 2014. Hydrodynamics of fossil fishes, *Proceedings. Biological sciences / The Royal Society*, 281, pp.20140703. doi: 10.1098/rspb.2014.0703
- Jiang, H., Lai, X., Sun, Y., et al., 2014. Permian-Triassic conodonts from Dajiang (Guizhou, South China) and their implication for the age of microbialite deposition in the aftermath of the End-Permian mass extinction, *Journal of Earth Science*, 25, pp.413-430. doi: 10.1007/s12583-014-0444-4
- Song, H., Wignall, P. B., Chu, D., et al., 2014. Anoxia/high temperature double whammy during

- the Permian-Triassic marine crisis and its aftermath, *Scientific Reports*, 4, . doi: 10.1038/srep04132
- Bond, D. P. G., Wignall, P. B., 2014. Large igneous provinces and mass extinctions: An update, 505, pp.29-55. doi: 10.1130/2014.2505(02)
- Wignall, P. B., Newton, R., 2014. Reply, *Palaios*, 19, pp.102-104. doi: 10.1669/0883-1351(2004)019.0102:R.2.0.CO;2
- Yan, C., Wang, L., Jiang, H., et al., 2013. Uppermost permian to lower triassic conodonts at bianyang section, Guizhou Province, South China, *Palaios*, 28, pp.509-522. doi: 10.2110/palo.2012.p12-077r
- Algeo, T. J., Fraiser, M. L., Wignall, P. B., et al., 2013. Permian-Triassic paleoceanography, *Global and Planetary Change*, 105, pp.1-6. doi: 10.1016/j.gloplacha.2013.03.001
- Sun, Y., Joachimski, M. M., Wignall, P. B., et al., 2013, Response to comment on "Lethally Hot Temperatures during the Early Triassic Greenhouse", *Science*, 339, pp.1093-1095. doi: 10.1126/science.1233090
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- Song, H., Wignall, P. B., Tong, J., et al., 2013. Two pulses of extinction during the Permian-Triassic crisis, *Nature Geoscience*, 6, pp.52-56. doi: 10.1038/ngeo1649
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- Bond, D. P. G., Zatoń, M., Marynowski, L., et al., 2013. Evidence for shallow-water 'Upper Kellwasser' anoxia in the Frasnian-Famennian reefs of Alberta, Canada, *Lethaia*, . doi: 10.1111/let.12014
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- Wignall, P. B., Bond, D. P. G., Newton, R. J., et al., 2012. Capitanian (middle Permian) mass

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- Wang, H., Shao, L., Newton, R. J., et al., 2012. Records of terrestrial sulfur deposition from the latest Permian coals in SW China, *Chemical Geology*, 292-293, pp.18-24. doi: 10.1016/j.chemgeo.2011.11.005
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- Bond, D. P. G., Hilton, J., Wignall, P. B., et al., 2010. The Middle Permian (Capitanian) mass extinction on land and in the oceans, *EARTH-SCI REV*, 102, pp.100-116. doi: 10.1016/j.earscirev.2010.07.004
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- Sun, Y. D., Lai, X. L., Wignall, P. B., et al., 2010. Dating the onset and nature of the Middle Permian Emeishan large igneous province eruptions in SW China using conodont biostratigraphy and its bearing on mantle plume uplift models, *LITHOS*, 119, pp.20-33. doi: 10.1016/j.lithos.2010.05.012
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Permian Emeishan large igneous province eruptions in SW China using conodont biostratigraphy and its bearing on mantle plume uplift models, *LITHOS*, 119, pp.20-33. doi: 10.1016/j.lithos.2010.05.012

John, E. H., Wignall, P. B., Newton, R. J., et al., 2010.  $\delta^{34}\text{S}$ (CAS) and  $\delta^{18}\text{O}$ (CAS) records during the Frasnian-Famennian (Late Devonian) transition and their bearing on mass extinction models, *CHEM GEOL*, 275, pp.221-234. doi: 10.1016/j.chemgeo.2010.05.012

John, E. H., Wignall, P. B., Newton, R. J., et al., 2010.  $\delta^{34}\text{S}$ (CAS) and  $\delta^{18}\text{O}$ (CAS) records during the Frasnian-Famennian (Late Devonian) transition and their bearing on mass extinction models, *CHEM GEOL*, 275, pp.221-234. doi: 10.1016/j.chemgeo.2010.05.012

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Bond, D. P. G., Wignall, P. B., Wang, W., et al., 2010. The mid-Capitanian (Middle Permian) mass extinction and carbon isotope record of South China, *PALAEOGEOGR PALAEOCL*, 292, pp.282-294. doi: 10.1016/j.palaeo.2010.03.056

Bond, D. P. G., Wignall, P. B., Wang, W., et al., 2010. The mid-Capitanian (Middle Permian) mass extinction and carbon isotope record of South China, *PALAEOGEOGR PALAEOCL*, 292, pp.282-294. doi: 10.1016/j.palaeo.2010.03.056