

PUBLICATIONS (33 in total)

Journal Articles (total: 27)

Submitted (1):

1. Herries, A., Boschian, G., **Pickering, R.**, Joannes-Boyau, R., Mallett, T., Rovinsky, D., Adams, J., Armstrong, B., Murszewski, A., Blackwood, A., Penzo-Kajewski, P., Caruana, M., Baker, S., Menter, C (submitted) New 2.6-2.0 Ma fossil bearing palaeokarst deposits from the Drimolen Palaeocave System and implications for understanding cave life histories in the Malmani dolomite of Gauteng Province, South Africa. *Quaternary Science Reviews*

Accepted/in press (2):

2. Green, H., **Pickering, R.**, Drysdale, R., Hellstrom, J. (accepted). The influence of the Austral Westerlies recorded in a Holocene stalagmite record from Congo Cave, South Africa, *Earth and Planetary Science Letters*
3. Green, H., Drysdale, R., Hellstrom, J., **Pickering, R.**, Woodhead, J. (accepted), Onset of the modern climate regime in south east Australia revealed in a late Holocene speleothem record from Buchan Caves, Victoria. *Palaeogeography, Palaeoclimatology, Palaeoecology*

Published (24):

4. **Pickering, R.** 2015. Middle – Lower Pleistocene U-Pb ages for buried speleothems from Wonderwerk Cave, South Africa. *African Archaeological Review*, 32, 645-668
5. Rosenberger, A.L., **Pickering, R.**, Green, H., Cooke, S.B., Tallman, M., Morrow, A. Rimoli, R. 2015. 1.3±0.11 Ma ages for underwater remains constrain antiquity and longevity of Dominican primate *Antillothrix bernensis*. *Journal of Human Evolution*, 88, 85-96
6. Hellstrom, J., **Pickering, R.** 2015. Recent advances and future prospects of the U-Th and U-Pb dating applicable to archaeology, *Journal of Archaeological Science*, 56, 32-40
7. Green, H., **Pickering, R.**, Drysdale, R., Johnson, B., Wallace, M., Hellstrom, J. 2015. Evidence for global teleconnections in a late Pleistocene speleothem record of water balance and vegetation change at Sudwala Cave, South Africa, *Quaternary Science Reviews*, 110, 114-130
8. Braun, D.R., Levin, N.E., Stynder, D., Herries, A.I.R., Archer, W., Forrest, F., Roberts, D.L., Bishop, L.C., Matthews, T., Lehmann, S.B., **Pickering, R.**, Fitzsimmons, K., 2013. Mid-Pleistocene Hominin occupation at Elandsfontein, Western Cape, South Africa, *Quaternary Science Reviews*, 82, 145-166
9. Green, H., Woodhead, J.D., Hellstrom, J., **Pickering, R.**, Drysdale, R., 2013. Re-analysis of key evidence in the case for a hemispherically synchronous response to the Younger Dryas climatic event. *Journal of Quaternary Science*, 28, 8-12
10. **Pickering, R.**, Jacobs, Z., Herries, A.I.R., Karkanas, P., Bar-Matthews, M., Woodhead, J.D., Kappen, P., Fisher, E., Marean, C.W., 2013. Paleoanthropologically Significant South African Sea Caves dated to 1.0 Million Years using a combination of U-Pb, TT-OSL and palaeomagnetism. *Quaternary Science Reviews*, 65, 39-52
11. Woodhead, J.D., Hellstrom, J., **Pickering, R.**, Drysdale, R., Paul, B., Bajo, P. 2012. U and Pb variability in older speleothems and strategies for their chronology. *Quaternary Geochronology*, 14, 105-113
12. Woodhead, J.D., **Pickering, R.** 2012. Beyond 500 ka: progress and prospects in the U-Pb chronology of speleothems, and their application to studies in palaeoclimate, human evolution, biodiversity and tectonics. *Chemical Geology*, 322–323, 290–299
13. **Pickering, R.**, Dirks, P.H.G.M., Jinnah, Z., de Ruiter, D.J., Churchill, S.E., Herries, A.I.R., Woodhead, J.D., Hellstrom, J.C., Berger, L.R. 2011. *Australopithecus sediba* at 1.977 Ma and implications for the origins of Genus Homo. *Science* 333, 1421-1423.
14. **Pickering, R.**, Kramers, J.D., Hancox, P.J., deRuiter, D.J., Woodhead, J.D., 2011. Contemporary flowstone development links early hominin bearing cave deposits in South Africa. *Earth and Planetary Science Letters*, 306, 23-32

15. **Pickering, R.** & Kramers, J.D. 2010. A re-appraisal of the stratigraphy and new U-Pb dates at the Sterkfontein hominin site, South Africa. *Journal of Human Evolution*, 56, 70-86
16. **Pickering, R.**, Kramers, J.D., Partridge, T., Kodolanyi, J., Pettke, T. 2010. U–Pb dating of calcite–aragonite layers in speleothems from hominin sites in South Africa by MC-ICP-MS. *Quaternary Geochronology*, 5 (5), 544-558
17. Dirks, P.H.G.M., Kibii, J.M., Kuhn, B.F., Steininger, C., Churchill, S.E., Kramers, J.D., **Pickering, R.**, Farber, D.L., Meriaux, A-S., Herries, A.I.R., King, G.C.P. & Berger, L.R. 2010. Geological setting and age of *Australopithecus sediba* from Southern Africa. *Science*, 328, 205-208.
18. Fleitmann, D., Cheng, H., Badertscher, S., Edwards, R.L., Mudelsee, M., Göktürk, O.M., Fankhauser, A., **Pickering, R.**, Raible, C.C., Matter, A., Kramers, J. & Tüysüz, O. 2009. Timing and climatic impact of Greenland interstadials recorded in stalagmites from northern Turkey. *Geophysical Research Letters*, 36(19), L19707
19. de Ruiter, D.J., **Pickering, R.**, Steininger, C.M., Kramers, J.D., Hancox, P.J., Churchill, S.E. & Berger, L.R. 2009. New *Australopithecus robustus* fossils and associated U-Pb dates from Cooper’s Cave (Gauteng, South Africa). *Journal of Human Evolution*, 56, 5, 497-513
20. Backwell, L.R., **Pickering, R.**, Brothwell, D., Berger, L.R., Witcomb, M., Martill, D., Penkman, K. & Wilson, A. 2009. Probable human hair found in a fossil hyaena coprolite from Gladysvale cave, South Africa. *Journal of Archaeological Science*. 36(6): 1269-1276.
21. Berger, L.R., **Pickering, R.**, Kuhn, B., Backwell, L.R., Hancox, P.J., Kramers, J.D., & Boshoff, P. 2009. A Mid-Pleistocene in situ fossil brown hyaena (*Parahyaena brunnea*) latrine from Gladysvale Cave, South Africa. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 279, 3-4, 131-136
22. Sutton, M., Pickering, T.R., **Pickering, R.**, Brain., C.K., Clarke, R.J., Heaton, J.L. & Kuman, K. 2009 Newly Discovered Fossil- and Artifact-Bearing Deposits, Uranium-Series Ages and Plio-Pleistocene Hominids at Swartkrans Cave, South Africa. *Journal of Human Evolution*, 57, 688-696
23. Hajdas, I., Ivy-Ochs, S., **Pickering, R.**, Preusser, F. 2008. Recent developments in Quaternary dating methods. *Geographica Helvetica* 1, 1-5
24. **Pickering, R.**, Hancox, P.J., Lee-Thorp, J.A., Grün R., Mortimer, G.E., McCulloch, M. & Berger, L.R. 2007. Stratigraphy, U-series chronology and palaeoenvironments at Gladysvale Cave: insights into the climatic control of South African hominin bearing caves, South Africa, *Journal of Human Evolution*, 53, 602-619.
25. Ustaszewski, M., Herwegh, M., McClymont, A.F., Pfiffner, A.O., **Pickering, R.** & Preusser, F. 2007. Unravelling the evolution of an Alpine to post-glacially active fault in the Swiss Alps, *Journal of Structural Geology*, 29, 1943-1959.
26. Hall, G., **Pickering, R.**, Lacruz, R., Hancox, P.J., Berger, L.R & Schmid, P. 2006. An Acheulean handaxe from Gladysvale Cave Site, Gauteng, South Africa. *South African Journal of Science*, 102, 103-105.
27. **Pickering, R.** 2006. Regional geology, setting and sedimentology of the Middle Stone Age deposits at Sibudu Cave, KwaZulu-Natal, South Africa. *Southern African Humanities* 18 (1): 123-29.

Book Chapters (total: 4)

28. **Pickering, R.**, Herries, A.I.R. (accepted) New multidisciplinary age estimates for the Sterkfontein Member 4 australopithecines. In: Ward, C., Richmond, B., Zipfel, B. (Eds.) *Hominin Postcranial Remains from Sterkfontein, South Africa*. Oxford: Oxford University Press.
29. **Pickering, R.**, Uranium-Lead (U-Pb) dating of stalagmites from the Azokh Cave Complex (in press). In *Azokh Cave and the Transcaucasian Corridor*. Fernández-Jalvo, Y., Andrews, P., King, T., Yepiskoposyan, L. (Eds), Dordrecht: Springer.
30. Herries, A.I.R., **Pickering, R.**, Adams, J.W., Curnoe, D., Warr, G., Latham, A.G., Shaw, J. 2013. A multi-disciplinary perspective on the age of *Australopithecus* in southern Africa. In:

Reed, K.E., Fleagle, J.G., Leakey, R. (Eds.) *Paleoecology of Australopithecus*. Vertebrate Paleobiology and Paleoanthropology series, 21-48

31. Braun, D. R., Levin, N. E., Roberts, D., Stynder, D., Forrest, F., Herris, A. I., Mathews, T., Bishop, L. C. Archer, W., **Pickering, R.**, 2013. Initial Investigations of Acheulean Hominin Behaviour at Elandsfontein In: *The Archaeology of the West Coast of South Africa* (eds. A Jerardino, A Malan, D Braun). Archaeopress, Oxford, pp. 10-23.

Other/ Encyclopaedias (total: 2)

32. **Pickering, R.** "U-series dating", *Encyclopedia of Geoarchaeology*, Springer, Dordrecht (in press)
33. **Contributing Editor** for Wood, B. (editor), 2011. *Wiley-Blackwell Encyclopedia of Human Evolution, 2 volume set*. Wiley-Backwell, UK. ISBN: 978-1-4051-5510-6

CONFERENCE PRESENTATIONS (23 in total)

1. **September 2014 KR7 - 7th International Conference: Climate Change - The Karst Record**
Melbourne, Australia
Oral: New U-Pb ages for the Hominin site of Drimolen, South Africa: a regional pattern of contemporary flowstone formation
Poster: Monkeys of the Caribbean: new U-series ages constrain the antiquity and longevity of Dominican primate *Anthillothrix bernensis*
2. **June 2014 24th V. M. Goldschmidt Conference**
Sacramento, USA
Co-convenor: From ape to human: resolving the climatic and tectonic context of 10 million years of hominin evolution
Oral: The small, the bad and the ugly: U-Pb dating buried speleothems from archaeological caves
Oral: Windows into the past: Speleothems from the South African hominin cave sites as palaeoclimate records
3. **April 2013 Society for American Archaeology 78th Annual Meeting**
Honolulu, Hawaii
Oral: U-Pb dating cave carbonates: a new chronometer for the South African hominin cave sites
4. **April 2013 Paleoanthropology Society Annual Meeting**
Honolulu, Hawaii
Oral: 'The time has come': the new role of the U-Pb geochronometer applied to the South African early hominin sites.
5. **August 2012 34th International Geocongress Conference**
Brisbane, Australia
Oral: Shaking up the family tree: direct U-Pb dating the South African early hominin cave sites
Poster: The world's oldest sea caves? Combined U-Pb, TT-OSL and palaeomagnetism provide new 1 Ma age at Pinnacle Points, South Africa
6. **April 2012 European Geological Union**
General Assembly, Vienna, Austria
Oral: Re-arranging the family tree: the new role of U-Pb dating flowstones
7. **July 2011 International Union for Quaternary Research XVIII Congress**
The University of Bern, Switzerland
Oral (invited): U-Pb dating of flowstones: challenges, age models and success stories.
8. **June 2011 6th International Conference: Climate Change - The Karst Record**
University of Birmingham, UK
Poster: Going back to Cango Cave: the long way round.
9. **May 2010 European Geological Union**
General Assembly, Vienna, Austria

Poster: U-Pb dated Speleothem records of Plio-Pleistocene climate variability from South African hominin bearing caves.

Poster: U-Pb dating of calcite-aragonite layers in speleothems from hominin sites in South Africa by MC-ICP-MS.

10. **August 2009 Stony Brook Human Evolution Workshop VIII**

Turkana Basin Institute, West Turkana, Kenya

Oral (invited): Uranium-Lead dating of the South African Paranthropus-bearing deposits.

11. **February 2009 Swiss Quaternary Society meeting**

Natural History Museum, Bern, Switzerland

Poster (best poster prize): South Africa's early hominin bearing cave sites

12. **July 2008 18th V. M. Goldschmidt Conference**

University of British Columbia, Vancouver, Canada

Poster: Two high resolution snap shots of Pliostocene climate change from U-Pb dated South Africa speleothems. *Geochimica et Cosmochimica Acta*, 71,15, Suppl. 1, Pg A746

13. **October 2007 Oceans in the Earth System**

97th Annual Meeting of the Geologische Vereinigung e.V, Bremen, Germany

Poster (2nd best poster prize): Uranium-Lead dating of speleothems: unlocking terrestrial palaeoclimate proxies beyond 500 kyr

14. **April 2007 European Geological Union**

General Assembly, Vienna, Austria

Poster: Uranium-Lead dating of speleothems >500 kyr: examples from the early Hominid bearing caves of South Africa.

15. **September 2006 Palaeontological Society of South Africa Biannual Conference**

Rhodes University, South Africa

Oral: Current research into Uranium-Lead dating of Sterkfontein Cave, South Africa.

16. **August 2006 16th V.M. Goldschmidt Conference**

Melbourne, Victoria, Australia

Oral: U-Pb dating of speleothems from Sterkfontein Cave, South Africa. *Geochimica et Cosmochimica Acta*, 70,18, Suppl. 1, Pg A492.

17. **July 2006 Workshop on Human Evolution & Climate change**

National Museum of Kenya, Nairobi, Kenya

Oral (invited): U-Pb dating of Sterkfontein Cave: the beginnings of a new chronostratigraphic framework for the South African hominid bearing cave.

18. **November 2005 NSF Paleoclimates and Human Evolution Workshop**

Smithsonian Rural Facility, Virginia, USA

Oral (invited): Gladysvale Cave, South Africa: stratigraphy, U-series dates and correlation with the Tswaing Impact Crater rainfall record.

19. **July 2005 Pan African Archaeological Association for Prehistory Conference**

University of Botswana, Gaborone, Botswana

Oral: New U-series dates and stable light isotope data from Gladysvale Cave: towards a climatically controlled model for South African hominin bearing cave sedimentation.

20. **August 2004 32nd International Geocongress Conference**

Florence, Italy

Oral: A well dated record of terrestrial climate change and sedimentation for the last 500ka from Gladysvale Cave, South Africa

21. **July 2004 Geoscience Africa Conference**

University of the Witwatersrand, Johannesburg, South Africa

Oral: A well dated record of terrestrial climate change and sedimentation for the last 500ka from Gladysvale Cave, South Africa

22. **April 2003 South African Society for Quaternary Research Conference**

University of the Witwatersrand, Johannesburg, South Africa

Oral (best student presentation prize): The stratigraphy of the Pleistocene cave deposits at Gladysvale Cave (South Africa): a key to understanding climatically controlled cyclic cave fills

23. October 2002 Palaeontological Society of South Africa Biannual Conference

National Museum of South Africa, Bloemfontein, South Africa

Oral (best student presentation prize): The Stratigraphy of the Peabody Chamber, Gladysvale

Cave: Key to understanding sequence boundaries within cyclic cave fills