

Publications based on the Manchester Museum 2005–14



MANCHESTER
1824

The University of Manchester
Manchester Museum

A culture of inquiry

The Manchester Museum is one of the UK's great museums. Its collections include 4.8 million objects and specimens, both natural sciences and humanities. The collections are formally recognized by the UK government as being of national and international significance. These are experienced by 450,000 visitors each year, most of whom come from the North West. Our collections, exhibitions and practices form the basis of thousands of enquiries and investigations each year, some of which result in publications in books, journals and magazines.

This brochure is intended to provide a listing of publications known to have drawn on our Museum for the period 2005-14, whether by professional researchers, enthusiasts or amateurs (in the original sense of the word, as someone who loves their subject of choice). No doubt some publications have been missed out, especially those in more obscure locations. Nevertheless, this brochure is a celebration of the diversity of ways in which our Museum contributes to knowledge, and appreciation of the world and its inhabitants, as a tool for understanding and a catalyst for creative thinking.

The Museum is unusual in several respects. Firstly, it combines a position as the UK's largest university museum along with a position as Manchester's civic museum in the traditional model. This hybrid position has been a persistent character of the Museum since it first opened in 1888, and stems from the University of Manchester's long-standing aspirations as being a university that is accessible to the public and its local community, providing access to the University's collections, and using them to inspire, educate and entertain the public. While some of the language and ways that this is realized have changed over the years, this core purpose has not. It means that we have a lot of experience of providing access to collections, whether through exhibitions and temporary exhibitions or through providing access to our stored collections.

Secondly, the Museum combines natural sciences and humanities collections. We use this to encourage people to explore the past, present and future of the earth and its inhabitants. We pride ourselves in making collections and collections-related knowledge available, whether to worldwide researchers, students in the University of Manchester and

elsewhere, to private enthusiasts, or to schoolchildren. Research is not something that is only done by researchers, but by anyone with curiosity about the world, and the determination to find out more. We want to make it easy for people to take their studies further and we hope this brochure will encourage and inspire people to go on their own journeys of discovery, and further our collective understanding of the world around us.

General publications... 4

Archaeology (& Numismatics)... 5

Botany... 11

Earth sciences... 21

Egyptology... 27

Entomology... 32

Exhibitions, events and engagement... 43

Living cultures collections (& Archery)... 48

Museum practice... 50

Zoology... 51-61

GENERAL

- Alberti, S. J. M. M. (2006). Molluscs, mummies and moon rock: the Manchester Museum and Manchester science. *Manchester Region History Review*, 18, 130.
- Alberti, S. J. J. M. (2009). *Nature and Culture: objects, disciplines and the Manchester Museum*. Manchester University Press, Manchester.
- Alberti, S. J. (2011). The Status of Museums: Authority, Identity, and Material Culture. *Geographies of Nineteenth-Century Science*, 51.
- Gilbert, A. D. (2010). Evoking humanity: Reflections on the importance of university museums and collections. *Proceedings of the 8th Conference of the International Committee of ICOM for University Museums and Collections (UMAC), Manchester, 16th–20th September 2008*, 1-4
- Hussey, J. (2008). *Cruisers, Cotton and Confederates: Liverpool Waterfront in the Days of the Confederacy*. Countywise Ltd.
- Kitson, P. J. (2011). The Strange Case of Dr White and Mr De Quincey: Manchester, Medicine and Romantic Theories of Biological Racism. *Romanticism*, 17(3), 278-287.
- Logunov, D. V. & Merriman, N. (eds.) (2012). *Manchester Museum, Window to the World*. University of Liverpool Press, Liverpool.
- Lucas, P. (2007). Charles Darwin, “little Dawkins” and the platycnemic Yale men: introducing a bioarchaeological tale of the descent of man. *Archives of natural history*, 34(2), 318-345.
- Macleod, C. (2010). Samuel JMM Alberti, *Nature and Culture: Objects, Disciplines and the Manchester Museum*. Manchester: Manchester University Press, 2009. *The British Journal for the History of Science*, 43(4), 620-622.
- Mason, T. (2010). Nature and Culture: Objects, Disciplines and the Manchester Museum. *Museums Journal*, 110(10), 58-59.
- Merriman, N. (2012). The Manchester Museum. *Archaeological Journal*, 169(sup1), 38-43.
- Parsons, T. (2013). Nature and Culture: Objects, Disciplines and the Manchester Museum. *Annals of Science*, 70(1), 111-114.
- Swinney, G. N. (2010). Alberti, SJMM *Nature and culture: objects, disciplines and the Manchester Museum*. *Archives of Natural History*, 37(2), 367-368.
- Trustram, M. (2013). The Little Madnesses of Museums. *Little Madnesses: Winnicott, Transitional Phenomena and Cultural Experience*, 187.

ARCHAEOLOGY

The more prominent research uses of the archaeology collection include work on Roman material from excavations in Manchester (Gregory 2007); studies initiated by Prof John Prag in connection with the Bronze Age mines at Alderley Edge (Prag and Timberlake 2005; Smith et al. 2011), and work on the material from Sir William Boyd Dawkins' excavations at Creswell Crags (Jacobi, 2006, 2007a and 2007b; Bahn and Pettit 2009). The late Roger Jacobi's knowledge of Creswell collections in the UK and in the United States was so detailed it extended to recognizing matching breaks or joins between fragments of objects held by different institutions.

It is particularly gratifying to report the sourcing of significant collections of Romano-British pottery from excavations at Gayton Thorpe in Norfolk during the 1920s (Sitch 2010; Sitch and Harlow 2011) and human remains of early Medieval date from Heronbridge, near Chester (Sitch 2011). Both collections had frustrated earlier attempts to provenance them to such an extent that, in the case of the Gayton Thorpe pottery, sherds had been distributed to archaeological societies in Manchester and institutions abroad as unprovenanced handling material for teaching purposes. In the case of the Heronbridge remains, the material went from being under consideration for disposal to being displayed in the Museum's Ancient Worlds displays (Sitch 2013a, 2013b) and being included in a study of the Anglo-Saxon world by a University of Manchester academic (Higham and Ryan 2013).

One of the more unusual research requests came from the School of Dentistry at the University of Manchester and involved x-raying an edentulate human mandible in water in order to simulate the effect of x-raying an elderly live patient. The x-rays were used in the training of dental students.

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*Britain's Oldest Art: The Ice Age
Cave Art of Creswell Caves*.
English Heritage, Swindon.

Bonfante, L. (2006). Etruscan
inscriptions and Etruscan religion.
Pp. 9-26 in N.T.de Grummond &
E.Simon (eds.), *The Religion of the
Etruscans*, University of Texas
Press, Austin.

Bouwman, A. S., Brown, K. A.,
Prag, A.J.N.W. and T. A. Brown
(2008). Kinship between burials

from Grave Circle B at Mycenae

revealed by ancient DNA typing.
Journal of Archaeological Science
35: 2580-84 (available online at
<http://dx.doi.org/10.1016/j.jas.2008.04.010>).

Bouwman, A., Brown, K. A. and A.
J. N. W. Prag (2010). Middle
Helladic Kinship : Families, Faces
and DNA at Mycenae. In Philippa-
Touchais, Anna, Touchais, Gilles,
Voutsaki, Sofia and Wright, James
(eds), *Mesohelladika: The Greek*

Mainland in the Middle Bronze Age (Actes du colloque international organisé par l'École française d'Athènes, en collaboration avec l'American School of Classical Studies at Athens et le Netherlands Institute in Athens, Athènes, 8-12 mars 2006 = Bulletin de Correspondance Hellénique Suppl. 52, 453-9.

Bouwman, A.S., Brown, T.A., Chilvers, E.R., Arnott, R. and Prag, A.J.N.W. (2009). 'Kinship in Aegean prehistory? Ancient DNA in human bones from mainland Greece and Crete', *Annual of the British School at Athens* 104, 293-309.

Chilvers, E.R., Bouwman, A.S., Brown, K.A., Arnott R.G., Prag, A.J.N.W., Brown, T.A. (2008). Ancient DNA in human bones from Neolithic and Bronze Age sites in Greece and Crete. *Journal of Archaeological Science* 35: 2707-14
(<http://dx.doi.org/10.1016/j.jas.2008.04.019>).

Dickinson, O.T.P.K., Papazoglou-Manioudaki, L., Nafplioti, A. and Prag, A.J.N.W. (2012). Mycenae Revisited Part 4: Assessing the New Data. *Annual of the British School at Athens* 107, 161-88 (doi:10.1017/S0068245412000056)

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Høgenhaven, J. (2007). George J. Brooke and Philip R. Davies (eds), Copper Scroll Studies. *Journal of Semitic Studies*, 52(2), 393-394.

Jacobi, R. (2006). Some observations on the non-flint lithics from Creswell Crags. *Lithics*, 25, 39-64.

Jacobi, R. M. (2007) Early Upper Palaeolithic Artefacts, Beedings, West Sussex and the Context of Similar Finds. *Proceedings of the Prehistoric Society*, 73, 229-325.

Jacobi, R. M. (2007). The Stone Age archaeology of Church Hole, Creswell Crags, Nottinghamshire. Palaeolithic cave art at Creswell Crags in European Context, 71-111.

Jacobi, R. M., and Higham, T. F. G. (2011). The British earlier Upper Palaeolithic: settlement and chronology. The ancient human occupation of Britain, 181-222.

Manby, T. G. (2007). Ehenside Tarn and the neolithic pottery of North-Western England. *Cumberland and Westmoreland Antiquarian and Archaeological Society Extra Series*, 33, 61-97.

Musgrave, J., Prag, A.J.N.W., Neave, R., Fox, R.L., White, H. 2010. The Occupants of Tomb II at Vergina. Why Arrhidaios and Eurydice must be excluded. *International Journal of Medical Studies*, 7(6):s1-s15. doi:10.7150/ijms.7.s1. Available from <http://www.medsci.org/v07p00s1.htm>

Neave, R.A.H. and Prag, A.J.N.W. 2005. The skull as the armature of the face: reconstructing ancient faces. In Brady, M. and Bowman, A.K. (eds), *Proceedings of the joint Royal Society/British Academy symposium "Artefacts and Images of the Ancient World", 6-7 December 2000*. London: British Academy Occasional Paper 4, 131-43.

Pantos, E., Kockelmann, W., Chapon, L.C., Lutterotti, L., Bennet, S.L., Tobin, M.J., Mosselmans, J.F.W., Pradell, T., Salvado, N., Butí, S., Garner, R., Prag, A.J.N.W. (2005). Neutron and X-ray characterisation of the metallurgical properties of a 7th century BC Corinthian-type bronze helmet. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* 239, 16-26.

Papazoglou-Manioudaki, L., Nafplioti, A., Musgrave, J.H., Neave, R.A.H., Smith, D. and Prag, A.J.N.W. (2009). Mycenae revisited Part 1. The human remains from Grave Circle A: Stamatakis, Schliemann and two new faces

from Shaft Grave VI. *Annual of the British School at Athens* 104, 233-77.

Papazoglou-Manioudaki, L., Nafplioti, A., Musgrave, J.H. and Prag, A.J.N.W. (2010). 'Mycenae revisited Part 3. The human remains from Grave Circle A at Mycenae. Behind the masks: a study of the bones of Shaft Graves I-V', *Annual of the British School at Athens* 105, 157-224.

Prag, A.J.N.W. (2005). Chapter 1. Introduction: The Alderley Edge Landscape Project. In Timberlake, Simon and Prag, A.J.N.W. (eds), *The Archaeology of Alderley Edge* (Oxford, British Archaeological Reports: British Series 396 and Oxford, J & E Hedges), 1- 5.

Prag, A. J. N. W. (2010a). Lost and Found: the Tale of a Miner's Shovel. In Sekunda. N. (ed.), *Ergasteria: Works presented to John Ellis Jones on his 80th Birthday*. Gdańsk: Gdańsk University.

Prag, A. J. N. W. (2010b). Return of a Greek youth. *Minerva* 21.5, 7.

Prag, A. J. N. W. (2010c). Hermes the Goat-carrier: Arcadian Enigma. *Minerva* 21.5, 16-19.

Prag, A. J. N. W. (2010d). Foreword to E. C. Casella and S. K. Croucher, *The Alderley Sandhills Project*. Manchester: Manchester University Press, xiii-xvi.

Prag, A. J. N. W. (2010e). The Colouring of the Ruthwell and

Bewcastle Crosses (Oxford University Project Woruldhorð: <http://poppy.nsms.ox.ac.uk/woruldhorð/contributions/369>).

Prag, A. J. N. W. (2012). Foreword to Paolo Fundarò, *The Eternal Gaze (Lo Sguardo Eterno)*. Rome: Espera, 3.

Prag, A. J. N. W. and R. Neave (2010). Sibling semblance: Mausolus and his sisters. In MacFarlane, Fiona and Morgan, Catherine, *Exploring Ancient Sculpture. Essays in honour of Geoffrey Waywell (Bulletin of the Institute of Classical Studies, London, Supplement 104)*, 109-20.

Prag, A.J.N.W. and Timberlake, S. (2005). Chapter 15. Conclusion: a Summary and Future Prospects. In Timberlake, Simon and Prag, A.J.N.W. (eds), *The Archaeology of Alderley Edge* (Oxford, British Archaeological Reports: British Series 396 and Oxford, J & E Hedges), 262-5.

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Prag, K. (2007a). Water strategies in the Iktanu region of Jordan. Pp. 405-412 in *Studies in the History and Archaeology of Jordan*, Vol. IX. Department of Antiquities, Amman.

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Prag, K. (2008). *Excavations by K.M. Kenyon in Jerusalem 1961-1967. Volume V. Discoveries in Hellenistic to Ottoman Jerusalem*. Levant Supplementary Volume 7. Oxbow, Oxford.

Prag, K. (2009a). The late third millennium in the Levant: a reappraisal of the north-south divide. Pp. 80-89 in P.J. Parr (ed.) *The Levant in Transition. Proceedings of a Conference held at the British Museum on 20-21 April 2004*. Palestine Exploration Fund Annual IX. Maney, Leeds (UK).

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X, 703-8. Amman

Prag, K. (2011). The domestic unit at Tall Iktanu, its derivations and functions. Pp. 55-76 in M. Chesson (ed.) *Daily Life, Materiality, and Complexity in Early Urban Communities of the Southern Levant. Papers in Honor of Walter E. Rast and R. Thomas Schaub*. Eisenbrauns, Winona Lake.

Prag, K. (2012a). Footbaths: Secular, Ritual and Symbolic. Pp. 361-371 in M. Gruber, S. Ahituv, G. Lehmann & Z. Talshir (eds.) *All the Wisdom of the East. Studies in Near Eastern Archaeology and History in Honor of Eliezer D. Oren*. Orbis Biblicus et Orientalis 255. Academic Press, and Vandenhoeck & Ruprecht, Fribourg and Göttingen.

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Prag, K. (2014b). 'Tell Barakat' Revisited: a kernos ring from central Jordan in E. Gubel & I.M. Swinnen (eds.) *From Gilead to Edom. Studies in the Archaeology of Jordan in honor of Denyse Homès-Fredericq*. Akkadica Supplementum, Brussels.

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Sitch, B.J. (2012). Rediscovering a long-lost battlefield assemblage from Heronbridge, nr Chester. *Museum Archaeologists News*, 52 (Spring), 1-4.

Smith, A.D., Green, D.I., Charnock, J.M., Pantos, E., Timberlake, S. & Prag, A.J.N.W. (2011). Natural preservation mechanisms at play in a Bronze Age wooden shovel found in the copper mines of Alderley Edge. *Journal of Archaeological Science*, 38(11), 3029-3037.

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Thorn, J. C. (2005). *The Necropolis of Cyrene: Two Hundred Years of Exploration*. L'Erma di Bretschneider, Rome.

Timberlake, S. (2005). Stone Mining Tools From Alderley Edge. A re-examination of hammer-stones in the collections of The Manchester Museum and from archaeological excavations on Engine Vein (1997). *British Archaeological Reports British Series*, 396, 58.

Timberlake, S. and A. J. N. W. Prag (eds) (2005). *The Archaeology of Alderley Edge: Survey, Excavation and Experiment in an Ancient Mining Landscape*. (Oxford: British Archaeological Reports, British Series 396 and Oxford: J & E Hedges).

Numismatics

Butcher, K. & Ponting, M. (2012). The Beginning of the End? The Denarius in the Second Century, *The Numismatic Chronicle* 172, 63-83.

Butcher, K. & Ponting, M. (2014). *The metallurgy of Roman silver coinage: from the reform of Nero to the reform of Trajan*. Cambridge University Press. Forthcoming.

Sugden, K., & Stoddart, P. Empire and coinage: a contribution to the debate on colonialism ICOMON e-

Proceedings (Frankfurt, 2006) 1 (2008), 1-15.

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Sugden, K. & Stoddart, P. (2012) 20th century British campaign medals: a continuation of the 19th century? Proceedings of the XIVth International Numismatic Congress, 2009, 1965-72.

Sugden, K. & Jones, I. (2012) The Prestbury Civil War hoard. *British Numismatic Journal* 82, 133-145.

BOTANY

Over the last 10 years, 119 articles, books and chapters have used the botanical collections of the Manchester Museum. Of these, almost half (47%) have been studies of mosses, liverworts or hornworts, while studies of flowering plants and ferns account for another 38% of the total. Most of these publications are taxonomic reviews (including phylogenetics) or studies of distribution and conservation status, but there are also species identification keys, biodiversity checklists and ecotoxicological testing.

Research into the flora of the British Isles tends to focus on taxonomically challenging groups such as apomicts and hybrids e.g. *Hieracium* (Rich, 2005-2011), *Sorbus* (Price & Rich, 2007) and *Juncus* (Wilcox, 2009-2014).

However, the collections have world-wide significance and many publications result from international loans; this is particularly true for neotropical liverworts and hornworts. The Manchester Museum's collection of Richard Spruce's (1817-1893) South American liverworts is rich in type specimens and the number of resulting publications is an indication of their continuing scientific importance (e.g. the publications of Reiner-Drehwald and colleagues, 2005 and 2013).

While many studies make use of the existing historic collections, scientific research can also generate material such as voucher specimens which are deposited in the herbarium to allow for future verification (e.g. Al-Gendy *et al.*, 2010; Jepson *et al.*, 2012; and Rowntree *et al.*, 2010).

In addition to the taxon-specific studies, a further 13% of the total publications cover the collectors themselves and the functions of herbaria. It is not surprising that the herbarium collection is a rich source of information for historical research about horticulture (e.g. Brooks, 2010; Golding, 2010), natural history collectors (e.g. Gill, 2012; Hodkinson & Stewart, 2012; Seaward, 2007) and their societies and exchange networks (Groom *et al.*, 2014; Middleton, 2014). However, publications also draw on the Manchester Museum collection for work into modern herbarium practices such as generating large botanical datasets (Castañeda Álvarez *et al.*, 2011), issues of health and safety (Fellows *et al.*, 2011) and mass digitization through on-line access (Wolstenholme and Humphrey, 2006).

Collectors, herbarium history and practice

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Fellowes, J. W., Patrick, R. A. D., Green, D. I., Dent, A., Lloyd, J. R., & Pearce, C. I. (2011). Use of biogenic and abiotic elemental selenium nanospheres to sequester elemental mercury released from mercury contaminated museum specimens. *Journal of Hazardous Materials*, 189(3), 660-669.

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Gill, S. (2012). Leopold Hartley Grindon. *Micro-Miscellanea - Manchester Microscopical and Natural History Newsletter*, 81.

Golding, Y. (2010). Messrs. W & J Birkenhead: ferns a specialty. *Pteridologist*, 5(3), 170.

Grayer, S. (2009). Is there a viable future for herbaria in British Museums? *NatSCA News*, 17, 14-28.

Groom, Q. J., O'Reilly, C., & Humphrey, T. (2014). Herbarium specimens reveal the exchange network of British and Irish botanists, 1856-1932. *New Journal of Botany*, 4(2), 95-103.

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Hill, K. (2012). "He knows me... but not at the museum": women, natural history collecting and museums, 1880-1914. Pp. 184-195

in Dudley, S. H. (ed.). *Narrating objects, collecting stories: essays in honour of Professor Susan M. Pearce*. Routledge, Abingdon.

Hodkinson, I.D. & Steward, A. (2012). *The Three-Legged Society. The lives of the Westmorland naturalists and friends George Stabler, James M. Barnes and Joseph A. Martindale*. Centre for North-West Regional Studies.

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Middleton, R. (2014). The Royal Horticultural Society's 1864 botanical competition. *Archives of Natural History*, 41(1), 25-44.

Seaward, M. R. D. (2007). Richard Spruce's contribution to lichenology. *Bibliotheca Lichenologica*, 95, 105.

Wolstenholme, L. & Humphrey, T. (2006). Documenting herbarium specimens from home – can you help? *BSBI News*, 103, 41.

Flowering plants and ferns

Al-Gendy, A. A., El-Gindi, O. D., Hafez, A. S., & Ateya, A. M. (2010). Glucosinolates, volatile constituents and biological activities of *Erysimum corinthium* Boiss.(Brassicaceae). *Food Chemistry*, 118(3), 519-524.

Allen, D. E. (2005). Additional Irish records of *Rubus* species from re-

- examination of herbaria. *The Irish Naturalists' Journal*, 176-178.
- Ames, M. & Spooner, D.M. (2008). DNA from herbarium specimens settles a controversy about origins of the European potato. *American Journal of Botany*, 95, 252-257.
- El-Gazzar, A. & Rabei, S. (2008). Taxonomic assessment of five numerical methods and its implications on the classification of *Hyptis s.l.*(Labiatae). *International Journal of Botany*, 4, 85-92.
- Flores-Moreno, H., Garcia-Trevino, E.S., Letten, A.D. Moles, A.T. (2014). In the beginning: phenotypic change in three invasive species through their first two centuries since introduction. *Biological Invasions*, 1-11.
- Fraser-Jenkins, C.R. (2009). Lectotypification of *Dryopteris pseudomas* based on Wollaston's specimen of *D. affinis*. *Fern Gazette*, 18(6), 284-285.
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- Goyder, D. (2007). 585. *Asclepias barjoniifolia*. *Curtis's Botanical Magazine*, 24(2), 93-100.
- Hutchinson, G. & Rich, T.C.G. (2205). Conservation of Britain's biodiversity: *Hieracium radyrense* (Asteraceae), Radyr Hawkweed. *Watsonia*, 25, 403-407.
- Jepson, P., Lubienski, M., Llewellyn, P. & Viane, R. (2013). Hybrids within *Equisetum* subgenus *Hippochaete* in England and Wales. *New Journal of Botany*, 3(1), 47-58.
- Jepson, P., Welch, D. & Bailey, J.P. (2012). A new *Myosotis* hybrid, *Myosotis x bollandica* (Boraginaceae). *New Journal of Botany*, 2(1), 2-8.
- Knapp, A. (2010). *Ranunculus x hiltonii* still present on Copthorne Common, E. Sussex. *BSBI news*, 115, 34-35.
- McVeigh, A., Carey, J.E., & Rich, T.C.G. (2005). Chiltern Gentian, *Gentianella germanica* (Willd.) Börner (Gentianaceae) in Britain: distribution and current status. *Watsonia*, 25, 339-367.
- Molina, A., Acedo, C., & Llamas, F. (2008). (1817) Proposal to conserve the name *Carex leersii* FW Schultz against *C. leersii* Willd. and *C. chabertii* (Cyperaceae). *Taxon*, 57(2), 648-649.
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EARTH SCIENCES



Marie Stopes studying coal balls (courtesy of John Rylands University Library). Her research specimens have formed the basis of several publications over the last ten years'

Over the last ten years there has been a wealth of research into the earth science collections building on the long history of study. New discoveries have been recorded and historic collections have been investigated to reveal new insights. 84% of the publications are from the palaeontology collection, 6% from the petrology and 10% from the mineral collection.

The collection has been used to illustrate a wealth of discoveries such as the new mineral Redgillite found in Cumbria (Pluth *et al.*, 2005) and new evidence of the Eurasian lynx in Britain (Hetherington *et al.*, 2006 and Vines, 2007). 13% of the published research focuses on research into Pleistocene mammals building on the work of Rodger Jacobi and Derek Yalden.

Historical geology continues to be a strong research theme yielding 22% of the publications. Historical figures that capture the public's imagination are ever popular, such as Marie Stopes (Pain, 2007). Raising the profile of Stope's collection has led to a re-evaluation of some of our historic collections (Stullu-Derrien *et al.*, 2011). Approximately half of the research has involved new study of historic collections. For example, a re-evaluation of the museum's Plesiosaur holotype has led to its re-classification as a new species (Benson *et al.*, 2011). New cutting-edge modelling techniques have pushed the boundaries of discovery (Falkingham, 2012).

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EGYPTOLOGY



Egyptian mummy in the process of being CT scanned, 2014

The last ten years have seen a significant increase in the amount of research conducted on the Museum's Egyptology collection. Our 20 complete human mummies have been the most intensively studied part of the collection to date, with continuing output based on the work of the Manchester Mummy Project (David 2007, 2008, 2015; Cockitt *et. al.* 2014). The Museum's collection of animal mummies is currently the focus of a major research project based in the University (McKnight *et. al.* 2011-2015). A considerable body of literature has been generated on the display and interpretation of Egyptian mummies (Day 2014; Exell 2013a,b; Riggs 2014; Sheppard 2012; Wieczorkiewicz 2005), based on Manchester examples.

Comprehensive catalogues of our important holdings of cosmetic palettes of Predynastic date (c. 5000-3100 BC) (Patenaude and Shaw 2011) and shabti figurines (Janes 2012) have appeared, and a complete catalogue of mummies and coffins is currently in preparation (Dodson, Loynes and Price 2017). The museum's significant collections from the towns of Gurob and Kahun and from the 'Ramesseum Tomb' continue to attract special interest (e.g. Gasperini 2014; Wernick 2014; Hernández 2013; Forshaw 2014). We regularly loan these and other items to major international exhibitions (Zeigler 2008; Morfousse and Andreu-Lanoë 2014; Oppenheim 2015).

New Egyptological research on little-studied but well-contexted objects (e.g. Frood 2007; Yasuoka 2011; Price, forthcoming), archival exploration and the application of new scientific techniques (e.g. Johnson *et al.* 2013) has raised

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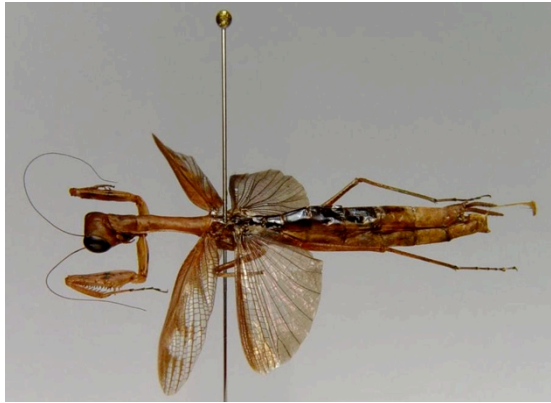
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ENTOMOLOGY



The female holotype of *Dysaulophthalma nathani*, a newly described species and genus, based on a specimen in the Museum's collection of Mantises

During the period of review, the Museum's collection of arthropods has been mostly used for taxonomic/faunistic studies: 112 out of 122 published papers (92%). Several papers have been devoted to the museological descriptions of particular collections (Johnson, 2009; Higham, 2012; Proudlove & Logunov, 2011; etc.) or the story of such notable specimens as the Manchester Moth (Logunov, 2011). Most of the published taxonomic papers have been devoted to spiders (Araneae; 27 papers, 23% of all papers), reflecting the interests of the Curator, and to beetles (Coleoptera; 60 papers, 49%); a total of 87 papers (71%). Almost a half of the published beetle papers (47%) have been devoted either to the rove-beetles (Staphylinidae; 15 papers, 25% of all beetle papers), or to the tortoise-beetles (Chrysomelidae: Cassidinae; 13 papers, 22%). It is hardly surprising, as the Manchester Museum's collection of Staphylinidae, particularly that of Horace Last, is one of the best in the UK, while the collection of Cassidinae is the second best in the world, and both have been extensively used by overseas researchers.

Of the interesting and novel to the Manchester Museum research undertaken by overseas specialists, which are largely based on undetermined museum collections, it is worth mentioning a series of six papers devoted to the African and Oriental tiger-moths (Erebidae) by V. V. Dubatolov (Russia), four papers devoted to the mantis (Mantodea) by M. Stiewe (Germany) and some papers devoted to such 'exotic' groups as the stick-insects (Phasmida; 3 papers), cockroaches (Dictyoptera; 1 paper + ongoing research) and crickets (Orthoptera; 1 paper + ongoing research).

Finally, a total of 49 new species has been described on the basis of the Museum's old undetermined collections or those deposited to it recently: spiders (Araneae) – eight new species; mites (Acari) – two species; beetles (Coleoptera) – 33 species; and other insect orders (Mantodea, Orthoptera,

Dyctioptera, etc.) – six species. Moreover, five new genera have been erected on the basis of museum insect collections: *Dysaulophthalma* of the mantis from India (Stiewe, 2009), *Indoapterolampra* of the cockroaches from India (Anisyutkin, 2014), *Logunovium* and *Radiarctia* of the tiger moths from Africa (Dubatolov, 2006a), and *Guineella* of the rove-beetles from New Guinea (Bordoni, 2014).

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EXHIBITIONS, EVENTS & ENGAGEMENT



We have redisplayed our main natural history and humanities galleries during the last five years.

The Museum has been open to the public since 1891. Our galleries are listed, but they are not ancient monuments. We continue to revise these in ways that are sensitive to their historic nature, but that enable us to connect with contemporary issues around promoting understanding between cultures and working towards a sustainable world. We stage temporary exhibitions that draw on latest academic thinking and museum practice to provide stimulating, interesting and memorable experiences. Our exhibitions are developed alongside programmes of events for all ages. We continue to refine our engagement practices, to find ways to reach under-represented groups of people.

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LIVING CULTURES COLLECTIONS

The Living Cultures collection has been, and continues to be, used extensively by staff and students at The University of Manchester for a multitude of research projects. Similarly it is used by researchers beyond the University of Manchester in organisations across North West England, the UK and overseas. In general the research fields accessing the collection include archaeology, art gallery and museum studies, art history, anthropology, media production, social anthropology, social history, and fashion. The result of such research is further critical information regarding the age, biography, material, provenance, and significance of a specific object or the collections. To achieve these results various methodologies are used including material sampling, laser scanning, and access to associated archives.

In 2011 Tim Insoll, Professor of African and Islamic Archaeology at the University of Manchester, investigated the faunal remains of a Tanzanian diviner's basket. He sent the basket contents including bone, mineral and plant samples to colleagues at the School of Earth, Atmospheric and Environmental Sciences University of Manchester, Jodrell Laboratory Royal Botanic Gardens Kew, and the Royal Belgian Institute of Natural Sciences for analysis and identification. Also in 2011, Joanna Ostapkowicz, Curator Americas collection, World Museum Liverpool, scanned and sampled a rare wooden Taino duho. Samples were sent for analysis to the University of Bristol School of Chemistry, the Oxford Radiocarbon Accelerator Unit Research Laboratory for Archaeology, and the Max Planck Institute for Evolutionary Anthropology. The results helped determine the use and age of the object.

Alisa LaGamma, Curator Arts of Africa, Oceania, and the Americas, and Ellen Howe a Conservator from the Metropolitan Museum of Art, New York, visited Manchester Museum in 2013 to research the Mangaaka power figure. This was in preparation for a loan of the power figure to the Metropolitan Museum of Art 2015 exhibition *Power and Majesty: The Art of Kongo Masters*. The exhibition and research connects Mangaaka power figures in New York, Chicago, Dallas, Detroit, Paris, Brussels, Basel, Zug, Berlin, Leipzig, Stuttgart, Mainz, Leiden, Rotterdam, Rome, Liverpool, and Manchester. It furthers understanding of the role and composition of power figures.

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ZOOLOGY



PN_Finch9b
Pauline Neild 077100 95273

A type specimen of the Warbler Finch, collected on the Galapagos by Charles Darwin in 1835 on the Voyage of the Beagle (photograph by Pauline Neild).

The zoology collections featured in 112 publications during 2005-14. Almost half of these (43%) related to the collection of bird skins, skeletons and eggs; molluscs formed the basis of 19% of publications; bryozoa (colonial marine animals) formed the basis of 15% of publications, and mammals formed the basis of 13% of publications. These figures reflect the relative significance of our various collections: our bird collection is within the top five in the UK, and our collections of molluscs and, especially, bryozoa are very rich in type specimens, the specimens that define scientific names.

In terms of subjects covered, distribution and faunistics form the basis of many publications (22%), where researchers incorporate distributional records based on specimens in the Museum collection. Taxonomy and systematics are another popular subject drawing on the collection (20% of publications), drawing especially on the collections of Bryozoa and Molluscs, of which we have very significant numbers of type specimens. Projects that are specifically related to conservation biology are relatively small in number, but especially important in terms of their wider impact; many projects that relate to distribution and to ecology also have direct conservation applications. A significant number of publications relate to the history of the Museum and about collectors (21%), reflecting interest in both our practices and the importance of our donors and other associated people.

In terms of key pieces of research, collections of Brown-lipped Snails from the UK collected during the latter part of the 20th century demonstrated evolutionary change in shell colour and patterning at all levels, including site, habitat and continent-wide scales. Data associated with specimens was used to demonstrate declines in large mammals in India and to map current diversity of birds in tropical Africa and Central America.

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