

## Peer Reviewed Journals

Turner-Walker, G. & Peacock, E.E. (under review) Preliminary results of bone diagenesis in Scandinavian bogs. *Palaeo3 (Palaeogeography, Palaeoclimatology Palaeoecology)*.

Turner-Walker, G. & Jans, M. (under review) Reconstructing taphonomic histories using histological analyses. *Palaeo3 (Palaeogeography, Palaeoclimatology Palaeoecology)*.

Gilbert, M T P, Hansen, A.J. Willerslev, E, Turner-Walker, G., Collins, (2006) M.J. Insights into the processes behind the contamination of degraded human teeth and bone samples with exogenous sources of DNA. *International Journal of Osteoarchaeology* 15: 1–9.

Gilbert, M T P, Rudbeck, L, Willerslev, E, Hansen, A.J., Smith, C., Penkman, K., Prangenberg, K., Nielsen-Marsh, C, Jans, M., Arthur, P., Lynnerup, N., Turner-Walker, G., Biddle, M., Kjølbye-Biddle, B., Cooper, A., Collins, M.J. (2005) Biochemical and physical correlates of DNA contamination in archaeological bones and teeth excavated at Matera, Italy. *Journal of Archaeological Science* 32: 785-793.

Turner-Walker, G. Nielsen-Marsh, C. M. Syversen, U. Kars H., Collins M. J. (2002) Sub-micron spongiform porosity is the major ultra-structural alteration occurring in archaeological bone, *International Journal of Osteoarchaeology* 12: 407–414

Turner-Walker, G. & Syversen, U. (2002) Quantifying histological changes in archaeological bones using BSE-SEM image analysis. *Archaeometry* 44, 3, 161-168.

Turner-Walker, G., Mays, S. & Syversen, U. (2002) The archaeology of osteoporosis. *European Journal of Archaeology* 4(2)363-369.

Mays, S., Taylor, G. M., Legge, A. J., Young, D. B. & Turner-Walker, G. (2001) Palaeopathological and biomolecular study of tuberculosis in a medieval skeletal collection from England. *American Journal of Physical Anthropology* 114: 298-311.

Turner-Walker, G., Mays, S. Lystad, E. G. & Syversen U. (2000) Do high parity and prolonged lactation have long-term consequences for bone mineral density? New evidence from medieval skeletons. (abstract) *Journal of Bone and Mineral Research* 15: Supplement 1: S530.

Turner-Walker, G., Mays, S. & Syversen, U. (2000), An SEM-BSE study of bone mineral diagenesis. Where does all the calcium go? *Taphonomy and Diagenesis Newsletter*. 7, 33.

Mays, S. & Turner-Walker, G. (2000) A Medieval case of Paget's disease of bone with complications. *Journal of Palaeopathology* 11(1): 29-40.

Turner-Walker, G. (1998) The West Runton fossil elephant: a pre-conservation evaluation of its condition, chemistry and burial environment. *The Conservator* 22, 26-35.

Turner-Walker, G. (for 1998) Pyrite and bone diagenesis in terrestrial sediments: Evidence from the West Runton Fresh Water Bed. *Bulletin of the Geological Society of Norfolk*.48: 3-26. (published 1999)

Turner-Walker, G. (1996). Recovery and conservation of the West Runton fossil elephant. *Natural Sciences Conservation Group Newsletter* 3: 10-18.

Turner-Walker, G. & Parry, T. V. (1995). The tensile strength of archaeological bone. *Journal of Archaeological Science* 22, 185-191.

Evershed, R. P., Turner-Walker, G., Hedges, R. E. M., Tuross, N., & Leyden, A. (1995). Preliminary results for the analysis of lipids in ancient bone. *Journal of Archaeological Science* 22, 277-290.

Collins, M. J., Nielsen-Marsh, C. M., Hiller, J., Smith, C., Roberts, J., Prigodich, R., Wess, T., Csapo, J., Millard, A. & Turner-Walker, G. (2002) The survival of organic matter in bone: a review. *Archaeometry*. 44(3) 383-394.

Collins, M. J., Riley, M. S., Child, A. & Turner-Walker, G. (1995). A basic mathematical simulation of the chemical degradation of ancient collagen. *Journal of Archaeological Science* 22, 175-183.

Page, H. & Turner-Walker, G. (1991) The Bronze Age dagger from Reaverhill Farm, Barrasford. *Archaeologia Aeliana*, XIX: 127-130.

### Popular Journals

Turner-Walker, G. (2004) Ammingens historia / A history of breastfeeding. *SPOR* 2004 38(2): 18-21. (in Norwegian)

Peacock, E. E. & Turner-Walker, G. (1998) Erkebispenes nye dusj / The archbishops' new shower. *SPOR* 13(1) 44-47. in Norwegian

Turner-Walker, G. (1998). Posterity beckons. *Museums Journal*, February 1998, 37.

### Books

Turner-Walker, G. (in prep) The Chemical and Microbial Degradation of Bones and Teeth. In *Human Paleopathology- methodological and biocultural perspectives*. (Simon Mays & Ron Pinhasi eds) Wiley.

Turner-Walker, G. & Mays, S. (in prep) Histological Studies on Ancient Bone. In *Human Paleopathology- methodological and biocultural perspectives*. (Simon Mays & Ron Pinhasi eds) Wiley.

Turner-Walker, G. (2006) Two Perspectives on European Industrial Heritage: Trondhjems Mekaniske Værksted, Norway and the North of England Open Air Museum. in *The Second Life of Ruin: Cross-National Case Studies of Industrial Heritage and its Revitalization*. (Kaicheng Yang ed.) Published by the Council for Cultural Affairs, Executive Yuan, Taiwan, 78-87. (in Chinese)

Ortner, D. J. & Turner-Walker, G. (2003) The biology of skeletal tissues. in *Identification of Pathological Conditions in Human Skeletal Remains - 2nd Edition*. (Donald J. Ortner ed.) Academic Press.

Collins, M.J., Nielsen-Marsh, C.M., Hiller, J., Smith, C.I., Roberts, J.P., Prigodich, R.V., Wess, T.J., Csapo, J., Millard, A., Turner-Walker, G. (2002) Bone Diagenesis: implications for heritage management. in *The Future from the Past: Archaeozoology in Wildlife Conservation and Heritage Management*, Roel C G M Lauwerier & Ina Plug eds: Proceedings of the 9th ICAZ Conference, Durham 2002, Vol. 3, Oxbow Books 2003.

Nielsen-Marsh, C. N., Gernaey, A. M., Turner-Walker, G., Hedges, R. E. M., Pike, A. W. G. & Collins, M. J. (2000) The chemical degradation of bone. In *Human Osteology in Archaeology and Forensic Science*, (Cox, M. & Mays, S. eds). Greenwich Medical Materia. London: 439-454.

Turner-Walker, G. (1997). Designing a Time Capsule. in *Ours for Keeps? A Resource Pack for Raising Awareness of Conservation and Collection Care*. Museum and Galleries Commission, London: 6.11-6.14.

Caple, C., Clogg, P., Hamerow, H. & Turner-Walker, G. (1995) The gold Anglo-Saxon pendant: technical, analytical and stylistic attributes, in Tattenhoe Westbury Two Deserted Medieval Settlements in Milton Keynes, (R.J. Ivens, P. Busby & N. Shepherd eds) *Buckinghamshire Archaeological Society Monograph Series* (8) 397-403.

### **Conferences & Proceedings**

Bergstrand, T., Björdal, C.G., Nilsson, T., Bohm, C., Christensson, E., Gregory, D., Nyström, I., Peacock, E.E., Turner-Walker, G., Richards, V. and MacLeod, I. (2005). Reburial as a method of preserving archaeological remains. A presentation of the Marstrand Project. *Proceedings of the 9th ICOM Group on Wet Organic Archaeological Materials Conference*, P. Hoffmann K. Strætkvern, J.A. Spriggs, and D. Gregory (Eds.). Bremerhavn: WOAM, 9-39.

Turner-Walker, G. (2003) European ironwork 100AD -1000AD: Issues of technology and conservation. *Preprints of the 2003 Cultural Heritage Conservation Science Conference*, National Yunlin University of Science and Technology, Douliou, Taiwan. 30-31 October 2003.

Chen. H-C, Chiou, S-C, Wang, C-F, Wang, X-H & Turner-Walker, G. (2003) Experimental carbonation of traditional mortars using elevated CO<sub>2</sub> atmospheres, and their structural properties. *Preprints of the 2003 Cultural Heritage Conservation Science Conference*, National Yunlin University of Science and Technology, Douliou, Taiwan. 30-31 October 2003. 177-187. (in Chinese)

Sæterhaug, R. & Turner-Walker, G. (2002) Conservation of Roman structural timbers using the PEG two-step method. *Proceedings of the 8th International Conference of the WOAM Working Group*.

Peacock, E. E. & Turner-Walker, G. (1998) 20th Century technology saves Europe's oldest moneymaker. *Proceedings of the 7th International Conference of the WOAM Working Group*. NUCLEART, Grenoble: 47-52.

Peacock, E. E. & Turner-Walker, G. (1998) The *in situ* conservation of the archbishops' mint workshop. *Site Effects: The Impact of Location on Conservation Treatments*. SSCR, Edinburgh: 87-92.

Turner-Walker, G. & Scull, C. J. (1997). Microfauna in Anglo-Saxon graves; entomological evidence from burials at Boss Hall and the Butter Market, Ipswich. in *Archaeological Sciences 1995* (A. G. M. Sinclair, E. A. Slater & J. A. J. Gowlett eds.) Oxbow Books, Oxford: 320-327.

### **Poster Presentations**

Turner-Walker, G. Mays, S. & Syversen, U. (2001) Medical imaging technologies and palaeopathology. *Archaeological Science 2001*, University of Newcastle upon Tyne, UK, 29th August - 1st September 2001.

Peacock, E. E., Turner-Walker, G., & Sæterhaug, R. (1999) Actualistic soil burial studies of resistant biopolymers. *Methods in Analysis of the Deterioration of Collagen based Historic Materials in Relation to Conservation and Storage*, School of Conservation, Copenhagen, Denmark 6-10th July 1999.

Turner-Walker, G. & Syversen, U. (1999) Pregnancy, lactation and recoverable bone loss in medieval women. *Human- og animalosteologisk materiale som en historisk kilde*. Vitenskapsmuseum, Trondheim, 26-28th November 1999.

Turner-Walker, G., Mays, S. & Syversen, U. (1999) Archaeological bone: mineral changes and diagenesis. *Human- og animalosteologisk materiale som en historisk kilde*. Vitenskapsmuseum, Trondheim, 26-28th November 1999.

Turner-Walker, G., Mays, S. Lystad, E. G. & Syversen, U. (1998) Preliminary results from a study of age-related bone loss in two medieval populations: Trondheim, Norway and Wharram Percy, England. *XIIIth European Meeting of the Palaeopathology Association*. Prague/Pilsen, 26-29th August 1998.

Turner-Walker, G. & Scull, C. J. Microfauna in Anglo-Saxon graves; entomological evidence from burials at Boss Hall and the Butter Market, Ipswich. *Archaeological Sciences*, July 1995, Liverpool.

Turner-Walker, G. The physical and chemical characterisation of archaeological bone. *28th International Symposium on Archaeometry*. 23-27th March 1992. Los Angeles, California.

### **Conferences & meetings**

Turner-Walker, G. & Peacock, E.E. Preliminary Results of Bone Diagenesis in Scandinavian Bogs. *The V International Bone Diagenesis Meeting*, Cape Town, South Africa. 28-31 Aug 2005

Turner-Walker, G. & Jans, M.M. Reconstructing taphonomic histories using histological analysis. *The V International Bone Diagenesis Meeting*, Cape Town, South Africa. 28-31 Aug 2005

Turner-Walker, G. European ironwork 100AD -1000AD: Issues of technology and conservation. *2003 Cultural Heritage Conservation Science Conference*, National Yunlin University of Science and Technology, Douliou, Taiwan. 30-31 October 2003.

Peacock, E. E., Turner-Walker, G., & Sæterhaug, R. Experimental bog body taphonomy. *Archaeological Science 2001*, University of Newcastle upon Tyne, UK, 29th August - 1st September 2001.

Turner-Walker, G., Mays, S. & Syversen, U. (2000), An SEM-BSE study of bone mineral diagenesis. Where does all the calcium go? *Fourth International Conference on Bone Diagenesis*, Alberracin, Spain, 4-7 May 2000

Turner-Walker, G., Porosity in archaeological bones: a new perspective. *Second Oxford Workshop on bone diagenesis*, Oxford, UK. 1993

### **Unpublished Reports**

Turner-Walker, G. (1993). The Characterisation of Fossil Bone. PhD Thesis, University of Durham.

Turner-Walker, G. (1990). The Analysis of Some Mortars from Polis tis Chrysochous, Cyprus. Special report for Princeton University.

Turner-Walker, G. (1989). A Chemical and Morphological Examination of Weld Inclusions in Knives from Hamwich and York. Unpublished dissertation, University of Durham.

Turner-Walker, G. (1989). Technical Examination and Conservation of a Group of Roman Iron Stylii from Wroxeter. Submitted as part of Durham diploma course in Archaeological Conservation.