## Dr PAUL GARSIDE: Research Fellow

## Accepted:

GARSIDE, P. Textiles. In: C. MCNAMARA, ed. Foundation Studies in Microbial Deterioration and Conservation of Cultural Heritage Materials. American Society for Microbiology Press.

GARSIDE, P., RICHARDSON, E., and WYETH, P. NIR/Chemometrics for Silk. In: M. STRLIČ, ed., *NIR/Chemometrics in Cultural Heritage*.

## Submitted:

RICHARDSON, E. and GARSIDE, P. The use of near infrared spectroscopy as a diagnostic tool for historic silk artefacts. *e-Preservation Science*.

GARSIDE, P. The influence of metal weighting on the stability of silk. *Postprints of* 8<sup>th</sup> European Conference on Research for Protection, Conservation and Enhancement of Cultural Heritage.

GARSIDE, P. and RICHARDSON, E. Assessing the physical state of historic textiles via NIR spectroscopy. *Postprints of 8<sup>th</sup> European Conference on Research for Protection, Conservation and Enhancement of Cultural Heritage.* 

## Published:

GARSIDE, P. The rôle of fibre identification in textile conservation. (Chapter 16.) In: *Identification of Textile Fibres*. Cambridge: Woodhead Publishing, 335-365.

GARSIDE, P. and WYETH, P. 2007. Crystallinity and degradation of silk: correlations between analytical signatures and physical condition on ageing. *Applied Physics A*, 89, 871-876.

GARSIDE, P. and O'CONNOR, S. 2007. Assessing the risks of radiographing culturally significant textiles. *e-Preservation Science*, 4, 1-7.

GARSIDE, P. and WYETH, P. 2007. The use of polarised spectroscopy as a tool for examining the microstructure of cellulosic textile fibres. *Applied Spectroscopy*, 61(5); 523-529.

GARSIDE, P. and WYETH, P. 2006. Textiles. In: E. MAY and M. JONES, eds. *Conservation Science: Heritage Materials*. RSC Publications; Cambridge, 56-91.

GARSIDE, P. and WYETH, P. 2006. Identification of cellulosic fibres by FTIR spectroscopy: differentiation of flax and hemp by polarized ATR FTIR. *Studies in Conservation*, 51 (3), 205-211.

EDWARDS, H. G. M., NIKHASSAN, N. F., FARWELL, D. W., GARSIDE, P. and WYETH, P. 2006. Raman spectroscopic analysis of a unique linen artefact: the *HMS Victory*Trafalgar sail. *Journal of Raman Spectroscopy*, 37, 1193-1200.

GARSIDE, P. and LOVETT, D. 2006. Polyurethane foam: investigating the physical and chemical consequences of degradation. In: C. ROGERSON and P. GARSIDE, eds. *The Future of the Twentieth Century: Collecting, Interpreting and Conserving Modern Materials.* AHRC Research Centre for Textile Conservation & Textiles Studies, Second Annual Conference. Textile Conservation Centre, 26-28 July 2005. London: Archetype, 77-83.

ROGERSON, C. and GARSIDE, P., eds. 2006. The Future of the Twentieth Century: Collecting, Interpreting and Conserving Modern Materials. AHRC Research Centre for Textile Conservation & Textiles Studies, Second Annual Conference. Textile Conservation Centre, 26-28 July 2005. London: Archetype.

GARSIDE, P. and WYETH, P. 2006. Identifying modern materials: taking it to the collection. In: C. ROGERSON and P. GARSIDE, eds. *The Future of the Twentieth Century:* 

Collecting, Interpreting and Conserving Modern Materials. AHRC Research Centre for Textile Conservation & Textiles Studies, Second Annual Conference. Textile Conservation Centre, 26-28 July 2005. London: Archetype, 55-60.

GARSIDE, P. and BROOKS, M. M. 2006. Probing the microstructure of protein and polyamide fibres. In: C. ROGERSON and P. GARSIDE, eds. *The Future of the Twentieth Century: Collecting, Interpreting and Conserving Modern Materials. AHRC Research Centre for Textile Conservation & Textiles Studies, Second Annual Conference. Textile Conservation Centre, 26-28 July 2005.* London: Archetype, 67-71.

K. GILL and GARSIDE, P. 2006. The *HMS Victory* fore-topsail. In: F. NUTTGENS and M. JORDAN, eds. *Big Issues: Postprints of the Institute of Conservation (ICON) Textile Group Forum*, 2005. London: ICON, 36-46.

ROGERSON, C. and GARSIDE, P. 2005. Instrumental analysis of metal threads as an aid for interpretation and preservation of a 15th century tapestry altar frontal and super frontal. In: F. LENNARD and M. HAYWARD, eds. *Tapestry Conservation: Principles and Practice*. Oxford: Butterworth Heinemann, 48-56.

GARSIDE, P., LAHLIL, S and WYETH, P. 2005. Characterization of historic silk by polarized attenuated total reflectance Fourier Transform Infrared Spectroscopy for informed conservation. *Applied Spectroscopy*, 59 (10), 1242-1247.

GARSIDE, P. and WYETH, P. 2005. Assessing the physical state of the fore-topsail of the HMS Victory. In: R. JANAWAY and P. WYETH, eds. Scientific Analysis of Ancient & Historic Textiles. Informing Preservation, Display and Interpretation. Postprints, AHRB Research Centre for Textile Conservation & Textile Studies, Second Annual Conference. Textile Conservation Centre, 13-15 July 2004. London: Archetype Press, 118-125.

GARSIDE, P. and HOWARD, S. 2005. 'Net' what it seems! The impact of detailed research and analysis on the approaches to the conservation of two early 19th Century machine made silk net dresses. In: R. JANAWAY and P. WYETH, eds. *Scientific Analysis of Ancient & Historic Textiles. Informing Preservation, Display and Interpretation. Postprints, AHRB Research Centre for Textile Conservation & Textile Studies, Second Annual Conference. Textile Conservation Centre, 13-15 July 2004.* London: Archetype Press, 19-23.

BROOKS, M. M. and GARSIDE, P. 2005. Investigating the significance and characteristics of modern regenerated protein fibres. In: PARISI, C., BUZZANCA, G. and PARADISI, A., eds. *Art '05. Proceedings of the 8th International Conference on Non-Destructive Investigations and Microanalysis for the Diagnostics and Conservation of the Cultural and Environmental Heritage. Lecce (Italy), 15-19 May 2005.* (Italian Society for Non-Destructive Testing Monitoring Diagnostics, Ministry of Cultural Heritage and Activities, Central Institute of Restoration & Department of Materials Science, University of Lecce: University of Lecce, 1-14. (CD-Rom format).

GARSIDE, P., MILES, R., NAFTALY, M., STRINGER, M. and WYETH, P. Assessing near infrared and terahertz spectroscopy for the characterisation of organic heritage artefacts. In: PARISI, C., BUZZANCA, G. and PARADISI, A., eds. *Art '05. Proceedings of the 8th International Conference on Non-Destructive Investigations and Microanalysis for the Diagnostics and Conservation of the Cultural and Environmental Heritage. Lecce (Italy), 15-19 May 2005.* (Italian Society for Non-Destructive Testing Monitoring Diagnostics, Ministry of Cultural Heritage and Activities, Central Institute of Restoration & Department of Materials Science, University of Lecce.)Lecce: University of Lecce, 15-19. (CD-Rom format).

GARSIDE, P. and WYETH, P. 2004. Polarised ATR-FTIR characterisation of cellulosic fibres in relation to historic artefacts. *Restaurator*, 25 (4), 249-259.

GARSIDE, P. and WYETH, P. 2003. Identification of cellulosic fibres by FTIR Spectroscopy. *Studies in Conservation*, 48, 269-275.

GARSIDE, P. and WYETH, P. 2003. Monitoring the deterioration of historic textiles: developing appropriate micromethodology. In: H. TOWNSEND, K. EREMIN and A. ADRIAENS, eds. *Conservation Science* 2002. London: Archetype Publications, 171-176.

GARSIDE, P. and WYETH, P. 2002. Characterization of silk deterioration. In: V.J. WHELAN, ed. *Strengthening the Bond: Science and Textiles. North American Textile Conservation Conference 2002 Preprints.* Philadelphia: NATCC, 55-60.

GARSIDE, P. and WYETH, P. 2000. Characterisation of plant fibres by infra-red spectroscopy. In: *Polymer Preprints*, 41 (2), 1792-1793.