Molecular studies of organic residues preserved in ancient vessels

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List of Publications

This Thesis is based on the Following Publications:

T.F.M. Oudemans & J.J. Boon 1996, 'Traces of ancient vessel use: investigating prehistoric usage of four pot types by organic residue analysis using pyrolysis mass spectrometry', *Analecta Praehistorica Leidensia*, vol. 26, 221-234, (Chapter 2).

T.F.M. Oudemans & J.J. Boon 1991, 'Molecular archaeology: analysis of charred (food) remains from prehistoric pottery by pyrolysis-gas chromatography/mass spectrometry', *Journal of Analytical and Applied Pyrolysis*, vol. 20, 197-227, (Chapter 3).

T.F.M. Oudemans, G.B. Eijkel & J.J. Boon in press-b, 'Identifying biomolecular origins of solid organic residues preserved on Iron Age Pottery using DTMS and MVA', *Journal of Archaeological Science*, (Chapter 4).

T.F.M. Oudemans & J.J. Boon in press, 'A comparative study of extractable lipids in the shards and surface residual crusts of ceramic vessels from Neolithic and Roman Iron Age settlements in the Netherlands', in H. Barnard & J. Eerkens (eds.), *Theory and Practice of Archaeological Residue Analysis*, British Archaeological Reports International Series, Archaeopress, Oxford, (Chapter 5).

T.F.M. Oudemans, J.J. Boon, & R.E. Botto in press-a, 'FTIR and solid-state ^{13}C CP/MAS NMR spectroscopy of charred and non-charred solid organic residues preserved in Roman Iron Age vessels from the Netherlands', *Archaeometry*, (Chapter 6).

Other publications related to this Thesis:

T.F.M. Oudemans, G.B. Eijkel & J.J. Boon 2005, 'DTMS and DTMS/MS study of solid organic residues preserved on ancient vessels', *Proceedings of the 33rd International Symposium on Archaeometry, 22-26 April 2002, Amsterdam*, H. Kars & E. Burke (eds.), Vrije Universiteit, Amsterdam, 501-505.

T.F.M. Oudemans & D. Erhardt 1996, 'Organic residue analysis in ceramic studies: implications for conservation treatment and collections management', *Archaeological conservation and its consequences*, A. Roy & P. Smith (eds.), The International Institute for Conservation of Historic and Artistic Works, London, Copenhagen, 137-142.

T.F.M. Oudemans, D. Erhardt & D.W. von Endt 1996, 'Organic Residues as Use Indicators: Comparative Spectroscopic Studies of Contemporary and Archaeological Kalinga Ceramics', *International Symposium on Archaeometry*, 80.

T.F.M. Oudemans, J.J. Boon & R.E. Botto 1992, 'Tracing vessel use by combined spectroscopic studies of solid organic residues on prehistoric pottery', *Archaeometry '92 Conference Abstracts*, 25.

I. Pastorova, T.F.M. Oudemans & J.J. Boon 1993, 'Experimental polysaccharide chars and their "fingerprints" in archaeological food residues', *Journal of Analytical and Applied Pyrolysis*, vol. 25, 63-75.