

# Becoming Vitrified

Kilns, furnaces and high temperature  
processes

Med en svensk sammanfattning

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Academic thesis for the Ph.D. degree in archaeology, at Gothenburg University, which by permission of the Dean of the Faculty of Arts will be publicly defended on Friday the 26 September at 13.15. The exam will be held in Lilla Hörsalen, Humanisten, Renströmsgatan 6, Gothenburg.

## **ABSTRACT:**

This thesis is designed to make a study with special emphasis in high temperature production. Included are two case studies, geographically separated however united in the occurrence of vitrification, material which is contextualised in a wider understanding of the societies within. Bringing in archaeological material which is evaluated both in material science and in archaeological context, the work demonstrates the need and gain of collaboration between humanities and natural science. Based on a specific group of material along with extracting immanent social information, puts forward that vitrified material like glass and certain kinds of slags are likely to be found in advanced societies with well-structured organisation. The study finally identifies the importance and value of this group of archaeological material, which may provide a widened picture of such advanced societies, whatever geographic position or archaeological period the societies may be placed in.

Keywords: Vitrification, Archaeology, Material Science, Glass, Kiln, Production Processes, Lödöse, Qalhāt, Sweden, Oman, Fish, Fuel, Medieval, Chaîne Opératoire, Methodology, Craft Specialisation, Advanced Societies.