



BIWEEKLY COLLOQUIUM  
Monday, June 1<sup>st</sup>, 4:15 p.m.

**NEW MAPS? LANDSCAPE ARCHAEOLOGY  
AND THE REMOTE SENSING OF LANDSCAPES**

**Vince Gaffney**  
University of Bradford

Landscape Archaeology has, over the last 30 years, seen revolutionary steps forward in terms of theoretical perspectives on landscapes and also the technology applications used to explore archaeological landscapes. As a consequence archaeological landscape mapping now derives from a wide range of sources and sensors and, in doing so, has been characterised by increasingly extensive and high definition data sets that provide novel opportunities for mapping and analysis. This paper provides examples of such developments from several survey projects, including the North Sea Palaeolandscapes Project and the Stonehenge Hidden Landscapes Project, and considers how such data can or might be used. Some emphasis will be placed on the stigmergic development of landscapes and also the integration of real world data with the use of simulation or agent-based models to explore such spaces. The outputs of such snippets of code are characterised by emergent patterning generated by the unpredictable behaviour of millions of individual agents: each governed by relatively simple behavioural rules and the maps derived from such studies are currently at the edge of cartographic analysis. The results of such research suggest that Baudrillard's assertion that that "the map precedes the territory" may no longer apply to the digital past; and certainly not in those spaces in which significant human activity must be presumed to exist but is unamenable to traditional study or mapping - as within the terra incognita of the liturgical spaces of Stonehenge or the vast, empty territory of Doggerland. We may now be witnessing a change from the situation in which we have used maps to infer behaviour to a position in which we increasingly produce maps as an active product of simulated behaviour designed to represent an unseeable past. The territory may well have begun to precede the map.

**Venue: Leibnizstraße 1, Seminar Room 204**