Transmission by Design: Archaeo-Geophysics and the Built Environment of the Moravian Gnadenhütten Mission, Ohio

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TRANSMISSION BY DESIGN:
ARCHAEO-GEOPHYSICS AND THE BUILT ENVIRONMENT OF THE MORAVIAN
GNADENHÜTTEL MISSION, OHIO

A Thesis
Submitted to the School of Graduate Studies and Research
in Partial Fulfillment of the
Requirements for the Degree

Master of Arts

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May 2014
Indiana University of Pennsylvania
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This paper presents the results of geophysical and archaeological investigations of the 18\textsuperscript{th} century Moravian mission town at Gnadenhütten, Ohio. Magnetic gradiometer and ground penetrating radar surveys were conducted at the site to detect and interpret subsurface anomalies. Geophysical anomalies were assigned to typological classification through an analysis of anomaly attribute data. A selection of geophysical anomalies was investigated through core sampling and test unit excavation to assess anomaly interpretations and test a hypothesized layout of the built environment of the Gnadenhütten Mission. Aspects of 18\textsuperscript{th} century Moravian culture and the research from contemporary Moravian mission sites were studied to infer a consistency in design in the physical and social landscapes of these communities. It is argued that the built environment of Moravian mission towns were based on a replicable model developed to promote internal communal control as well as to project an outward appearance of idyllic communitarianism and civility.