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**Abstract Title:** Extracting Diagnostic Information from Historic Ship Timber Surface Marks: The Case of *La Concorde/Queen Anne's Revenge* (1710-1718)

**Abstract Description:** The analysis of historic ship timbers has been a principal facet of underwater archaeological research since the earliest days of the discipline. One key component of this practice is the detailed recording of both natural and anthropogenic impressions on the timbers' surfaces. While traditionally this has been done using photography, drawings, and rubbings, new technological developments such as Reflectance Transformation Imaging (RTI) and Macro-Photogrammetry allow researchers to document the micro-surfaces of these impressions and study them at a level of detail not possible before. In this study, these new techniques are utilized to examine a few samples of wooden hull recovered from the 18th century wreck of Blackbeard's ship *Queen Anne's Revenge* (ex *La Concorde*). This not only provides an evaluation of the usefulness of these new techniques for timber analysis but also gives new insight into the unique signatures left by tools during the ship's construction, use, and repair.