

of curvature. None of them, so far as has been ascertained, possess any indication of a barb.

"The shank at the point of attachment to the line is most frequently plain. Sometimes, however, it is notched, flattened, bent over and flattened, or even bent over to form an eye."

One specimen in the Gerend collection has the upper extremity bent downward for the better attachment of the line.

In the collection of the late H. P. Hamilton is a cache of ten remarkably fine fish hooks of copper obtained from the banks of the Little Wolf river, in Muckwa township, Waupaca county. These vary from $2\frac{1}{2}$ to $2\frac{3}{4}$ inches in length, the strongly and broadly curved hooks reaching up to about opposite the middle of the shank. Some are circular and the others square in section and all are of a nearly uniform thickness of $\frac{1}{4}$ inch. Several have the tips flattened.

The Sheboygan county sites, situated along the sandy shore of Lake Michigan beginning at the mouth of the Black river in the town of Wilson and continuing south at intervals for fifteen miles, have yielded an abundance of copper fish hooks.

"Among the finished copper implements, fish hooks of various sizes and shapes, bear silent testimony to what appears to have been one of the principal activities of the occupants of these sites," wrote Dr. Gerend in the third issue of *The Wisconsin Archeologist*.

Fully two decades later, Dr. Gerend in discussing the finds on these same sites, stated that "many fine fish hooks have been found. Some of these have had circular constrictions while one is supplied with a hole at the end for the attachment of the line. The latter specimen seems to have served as a needle at one time being later transformed into a fish hook. Some of these implements (fish hooks) are still unbent yet finished objects in every other particular."

Speaking of the Black river village sites, Dr. Gerend mentions that "John Gerend at one time found 50 fish hooks of various sizes on one small space that had just been exposed by the wind."