THE KYRENNIA SHIPWRECK

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A Greek merchant ship lies wrecked off the north coast of Cyprus. It was revealed to members of the University Museum in the autumn of 1967 by its discoverer, Mr. Andreas Cariolou. Less than a mile northeast of Kyrenia this ancient trader had gone to the bottom, 90 feet below, with all her cargo. Here she had lain undisturbed for over 2200 years until a team of diving archaeologists began the careful uncovering of her cargo in the spring of 1968.

From their survey of the site in the previous autumn, the excavators knew that they would be dealing with a cargo of as many as 500 amphoras. Beneath were areas of metal widely spread over the wreck site, which extends some nineteen meters in length and ten meters wide. It was hoped that enough of the wood of the hull would remain buried in sand to permit a reconstruction of the ship's design. However, the ancient trader was to hold some surprises.

The first problem faced by the excavators was how to remove the deep overburden of sand that covered more than four-fifths of the ship's cargo. The task was made more difficult by a matting of eel grass roots, often as much as 30 cm. thick. We undermined this matting with a water jet and then inserted a needle bubbling compressed air just beneath the roots to loosen the sand that held them. This done, the overburden of matting could be cut away in sections to expose the amphoras beneath. From now on, the excavation would proceed rapidly, using the familiar suction tool, the air lift.

What had appeared to our first divers as a miniature mound of 80 amphoras expanded day by day until, by the end of the season, more than 300 had been brought to the surface. Perhaps another 200 still lie in place awaiting excavation. Ten different amphora shapes have been found. Most of them are Rhodian in origin and date to the final third of the 4th century B.C. But the nine other styles appear in relatively small numbers, and this suggests that they may have been picked up at several different ports of call.

Some of the Rhodian jars bear stamped impressions on their handles, possibly entered by an official at the pottery works to certify the capacity of the amphora. Scratched on the shoulder of one jar is an enigmatic EY, perhaps the scribbling of a crew member or passenger on this last voyage. To our surprise, as we cleaned the
Part of the Greek merchant ship’s cargo is a group of grain mills; this example has a maker’s mark chiseled into one face.

Using the suction of the air lift, divers are removing the thick matting of grass and sand which buried most of the wreck.

A grid of plastic irrigation pipe was set over the wreck so that objects could be accurately plotted.

Amphoras we found several of them containing quantities of almonds still preserved in their shells. Most of the jars, however, carry no trace of their original contents. In addition, only one amphora lid, made of stone, came up during the first season, leading us to wonder whether some portion of the freight might have been simply emptied jars.

As the excavation penetrated deep into the mound of amphoras an unexpected cargo was revealed. At least 27 stones for hopper-type grain mills lay stacked in three rows along the axis of the ship. They extend over a distance of four meters. Two blocks make up each mill. Grain would be poured into the V-shaped bin of the upper block and fall through its narrow slot. A wooden bar was most likely secured in the cuttings along the upper stone’s margin by a rope lashed to two vertical iron rings that are imbedded in each short side. Two men would then move the upper block over the lower, grinding the grain between the herringbone-patterned bottom of the upper block and the corrugated surface of the lower one. The blocks were cut from a dark volcanic stone of a type that most probably comes from one of the Cycladic islands, Thera or Melos.

Two separate ‘cabin areas,’ fore and aft, seem likely from the way in which the small finds are distributed, to date. In one such area three kantharoi, an echinus bowl, and other small vases were concentrated. Also, just adjacent, a set of lead net weights tells us where the sailors stored their fishing gear. A bronze coin, most probably minted in the lifetime of Alexander
the Great, lay amid the weights. In the second 'cabin area' three echinus bowls, a black glazed pitcher, a ring-handled guttae and several larger coarse ware bowls were found. Another find here, bearing a personalized touch, was an unusually shaped 'fish plate,' with the graffito 'EY' scratched on its base. Almost five meters separate these two conjectured cabins.

Early in the season small fragments of thin lead sheets with bronze tacks were found scattered at every level of the excavation. Soon, larger sheets of lead with regular rows of tacks were uncovered, indicating that the merchant vessel bore a sheathing of lead attached to its outer hull as protection against marine life. Most of the sheathing to this date is fragmentary, owing to its having fallen from sections of the hull that were exposed to decomposition above the sand bed. However, the final days of excavation uncovered sections of sheathing still attached to the outer planking. In addition, two rolls of lead were removed this season, on board to be used as patching material when the original covering was damaged or worn. This technique of sheathing a boat with lead is well known to us in Roman times, but the Kyrenia ship now stands as the earliest example of the method yet found.

The most gratifying aspect of the excavation season was our first glimpse of the ship's hull. Wood began to reveal itself in an excellent state of preservation, with the amphora cargo neatly stacked within it. Along one edge of the ship, outer planking is still joined to the ribs by bronze nails clenched over on the inner face of the ribs. Also an inner lining of 'ceiling planking,' which looks to be preserved to its original height, lies over these ribs. In this first 'cost trench' the hull appears even to retain its original curvature. Thus, we are dealing not only with wood that can offer reconstruction on paper, but a ship so well preserved as to present us with the unexpected challenge of raising and preserving it for permanent display.

Still, questions wait to be answered. Where did the ship originate? What course had her captain charted before she came to her end in Cyprus waters? Was she perhaps intended to play some part in supplying the armies Alexander was leading across the eastern Mediterranean world? And was it treachery or foul weather that took her with crew and passengers to the bottom of the sea?

In addition to the field work reported on in the Fall and Winter numbers of Expedition, two other projects are represented in the exhibition. These are the archaeological reconnaissance in Cameroon by Nicholas David, Assistant Curator in charge of the African Section, and the study of the Kofyar people of Northern Nigeria by Robert Netting, Assistant Curator of African Ethnology. Expedition has already carried reports of this work in Cameroon and Nigeria, the former in the Spring 1968 number, the latter in the Summer 1968 number.