who has himself learned very much from Binford, not seldom by reaction to his propositions—would hope that the controversial details of this presentation will not prevent it from facilitating access to Binford's archeological perspectives.

Book A is on archeology. It is a collection of 23 papers (one with Quimby as coauthor). Three of these have not been published previously. Among them is "Model building—paradigms, and the current state of Paleolithic research." This paper contributes much in making the book a rather well integrated summary of Binford's ideas. Much emphasis is put on problem orientation in excavation; on the use of quantitative data; on the importance of relationships and variability. The main perspective is dichotomic: "traditionalist" archeology should be replaced by "behavioral," and "historical" archeology by "processual." No doubt interesting possibilities might be opened up by these approaches. We shall see. But, also undoubtedly, the picture of archeology before this movement as entirely dominated by one, "traditionalist" "paradigm" is an oversimplification. Archeology was not and is not bipolar.

Two characteristic points are especially interesting, as they are strong and weak at the same time. One of them is the importance of philosophy of science for Binford. This gives his perspective firm and clear outlines, such as one would like to see much more of in archeology. On the other hand, the position chosen is exclusively that of positivism as expressed by Hempel. Is this always adequate for archeology? The reader may be left with the erroneous impression that there exist no respectible alternatives to the science philosophy of Hempel.

The second point concerns mathematics, statistics, and computers. Undoubtedly, the present generation of American archeologists is far ahead of, for instance, European colleagues in training, facilities, and equipment for use of modern data techniques. This was initiated earlier, but much of the credit for the development should be given to Binford and his followers. Mainly, the tools have been taken over from behavioral and biological sciences—especially factor analysis. May a nonmathematician express his feeling (rather than opinion) that the compatibility of this set of techniques with the often different needs of archeology is not always very good, and that this creates dangers? One would like to see more interest among archeologists in the possibilities of nonnumerical mathematics, appropriate for the often combinatorial character of tasks in archeology. But this is not found in the standard textbooks of statistics, so much and so well used by members of the movement.

Thus, a strength in the position taken by Binford and followers of his is their determination that the philosophical and logical/mathematical foundations of archeology should be made explicit. But it is a weakness if the attitude is that an archeologist must believe in Hempel + Factor Analysis.

This very American book has importance for archeologists everywhere, and also special connections with Europe. One of them is its dependency on the Vienna-Berlin positivism. Another is the dominating place in the perspective given to François Bordes of Bordeaux, also a founder of an influential but very special movement—and specialized in the subfield of Paleolithic archeology, to which Binford contributes. In the paper on model building, the lines from Vienna-Berlin and from Bordeaux meet in East Africa: the discussion on the basis of Acheulian assemblages there ends with a long quotation from Karl R. Popper.

In one of the B chapters, the author asserts that at an early stage he was "quite familiar with the literature of Old World archaeology." This is not clearly reflected in the bibliography, where the ratio "not in English"/"in English" is 1 : 21, there being about 25 French and other non-English references out of a total of 550. Some of the sweeping generalizations on the state of archeology before the movement can be explained by this—certainly necessary—specialization in reading. However specialized by experiences and in ideas, Binford has built a structure of much general interest to all archeologists. They should be stimulated by this provocative book.

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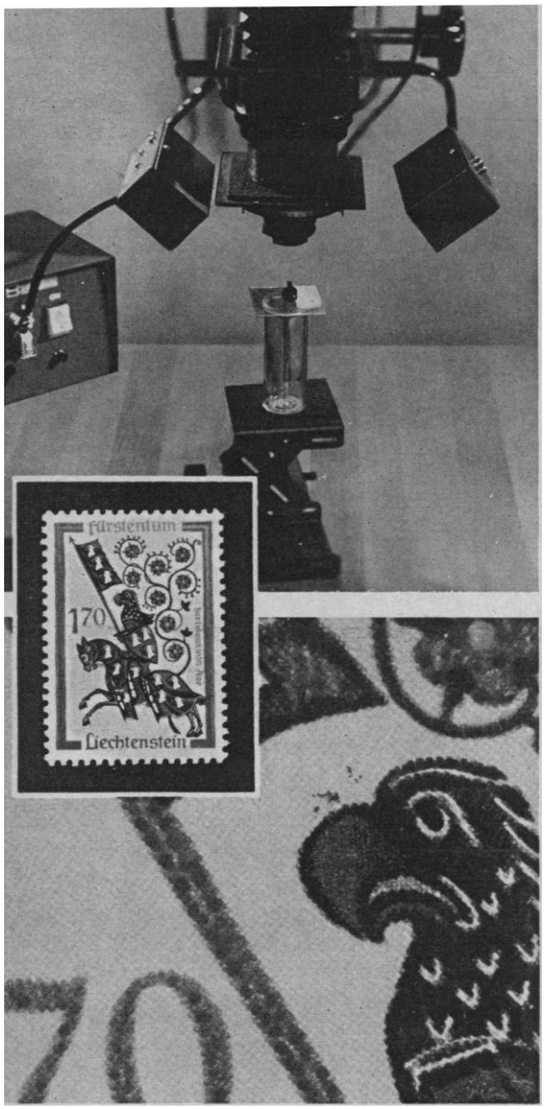
(Continued on page 782)



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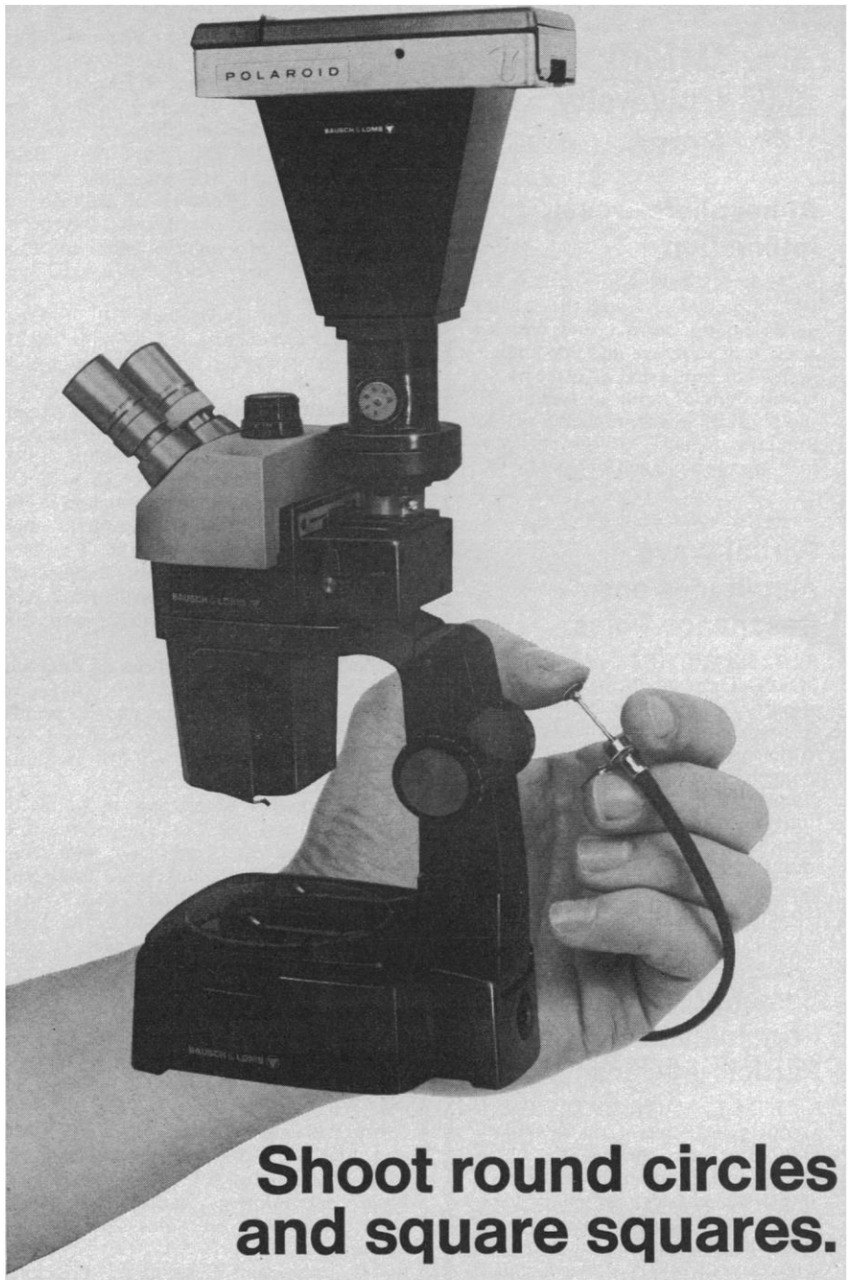

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