page biographical sketch of A. d'Orbigny by Le Calvez. As the titles indicate, there is no overall theme in this book.

I would have placed Arnold's lucid introduction to living foraminifera first. The beginning student will find most aspects of collecting and culturing explained in detail there. Arnold's historical introduction is fascinating and places current research in perspective.

Loeblich and Tappan's paper is intelligible only to the taxonomist who is familiar with the history of and reasoning behind foraminiferal classification. The authors discuss recent advances in the study of shell microstructure, but they never face up to their implications. If superfamilies are defined by optical properties of the shell wall, how can species in the same genus have granular and radial walls? Some minor modifications, mostly at the family level, are offered, but the overall structure at higher levels is left intact regardless of conflicting evidence.

Scott's article on biometry is a small book in itself and could easily serve as a text for an advanced course. Measurement, Scott points out, has not supplanted words and pictures in foraminiferal taxonomy. The difficulty of quantifying chamber shape and the inability to provide automated data capture and analysis have not been overcome. We still know virtually nothing about the function of shell design. Indeed, even if it has no function, Scott asks, shouldn't we know why? Research in shell biometry is in its infancy, and Scott's paper is required reading for anyone interested in being part of its ontogeny.

Lee neatly weaves together laboratory and field studies of shallow-water benthic foraminifera to arrive at some understanding of how they make their living. The research he cites represents about a decade of devoted work, and yet the importance of some basics such as substrate, competition, and predation are not understood. Those paleoecologists who with a cavalier attitude attribute all changes in abundances to changes in temperature and salinity ought to read this paper with care. In his concluding remarks Lee observes that foraminiferal ecology has evolved to more quantitative and detailed approaches requiring immense amounts of time. Like Lee, I look forward "with some trepidation."

For me the most annoying aspect of this book is the abbreviated form used for references. Some journal names are abbreviated and some are spelled out, but no titles of papers are given. Because one of the aims of this book is to serve as a guide to the literature, a traditional bibliographic format would be welcomed.

The papers brought together in this volume are very good. They are not a rehash of material published elsewhere, but are, as the editors intended, comprehensive reviews of major lines of research. I look forward to volume 2.

MARTIN A. BUZAS

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