that obsidian was being extracted criticising. Since my involvement centralised political control.

have begun to use some of them with methodology products is inescapable.

There are, of course, some problems with a study of this kind, but none is very important. Not all CLIVE GAMBLE, The Palaeolithic tested on more and better samples. 24514-1 and 0521-28764-2. It is also possible that surface samples from the Melos quarries do Reviewed by Anthony Sinclair not reflect the complete range of processes that once took place It is conceivable that Torrence's results reflect only the last stages in a long period of use. Similarly, it would be good to learn more about the contexts in tration upon human groups adapting which the products of the Melos quarries eventually entered the archaeological record. Even if we can show that the obsidian was extracted and worked on a fairly ad hoc basis, it could have taken on very specific meanings at the other stressing the notion of adaptation, end of its distribution.

It would be all too easy to end on that note, for reviews are often written by people who have no conception of the sheer difficulty of

by specialists and that access to in fieldwork at Great Langdale, I this material had come under have come to recognise the immense problems of devising any methodology which can help archaeologists The argument is persuasive, to come to terms with the lucid and vigorous. Her case is complexities of early quarry sites. well made and the methods that she There is such an embarrassing advocates are eminently practical profusion of material that there and could easily be applied to seems to be little way of making other lithic material; indeed, we order out of chaos. To devise a which puts productive results at the Neolithic material to work needs imagination quarries in Cumbria. There is no and perseverance in equal amounts. doubt that this book is one of a Undoubtedly, more work can be done select group which use stone arte- with Melos obsidian, but Robin facts to say something interesting. Torrence's study marks a quantum The case for more detailed docu- leap in our ability to carry this mentation of quarry sites and their work out. On any reckoning it is a considerable achievement.

the ethnographic case studies which Settlement of Europe. Cambridge Torrence uses are documented in University Press. Cambridge, 1986. enough detail to suit her purposes, pp471 (110 figs. and 91 tables). so that her approach must still be £40.00 and £15.00 ISBN 0-521-

The interpretation of the palaeolithic period in recent years has changed dramatically. Out has gone the old emphasis upon the lithics. In has come a new concento their environment, developing new means of coping with risk-laden situations. This altered viewpoint can be traced directly to the influence of two schools of thought; that of Lewis Binford and that of Eric Higgs emphasising the importance of the economy.

To date though these schools of thought have dealt largely with developing theory. They have not the research which they are yet attempted to interpret the vast

of archaeological material historical school.

The present work is a that an understanding of European palaeolithic must of a regional analysis, encompasses the essential concept times. of a challenge between a group's adaptational skills and changing Europe.

backed up by a sound middle range settlement. The book is rounded record and the dynamics of hunter- lithic settlement of Europe, or as gatherer behaviour. chapter develops this by showing of what they did when they got to that hunter-gatherer groups are in Europe". fact regional systems in relation to the environment at three scales; spatial, demographic and social. theses of this period, such as Spatially they show a resource use François Bordes' The Old Stone Age strategy juggling the costs of (1968), Gamble's work is noticeably environmental exploitation. Demo- different. The Old Stone Age graphically they exhibit a three concentrates on the evidence, tier system of band organisation. Finally on the social level they The theoretical background is interact through marriage networks, summarised in just 15 pages at the vital if a group is going to beginning. In contrast an account survive as a reproductive unit, and of the material record comprises networks of information exchange. little more than a quarter of The The archaeological implications of Palaeolithic Settlement of Europe. this are then spelled out, in terms Furthermore, the faunal evidence of the approach to the material now, where possible, takes pride of record and how it should be place. analysed.

With this introduction finished that makes up the palaeolithic of the book is away, and the relation-Europe, and has been the domain of ships of hunter-gather groups and the French influenced culture- their changing environment in Europe is considered. It begins with a good summary of the environvery mental evidence. Gamble improves deliberate attempt to set this upon the norm here not only by issue to rights. It aims to show describing the current ocean, the pollen and sediment core work, but be also by showing how the resources firmly rooted within the framework implied by this work will be and spatially structured in different

The archaeological record is set environment of glacial out relative to four time periods and nine regions, decided upon on the basis of longitude, latitude The whole work is structured by and relief. Each region and time this principle. It begins with the period is then described in terms history of palaeolithic studies to of chronology, industrial groupdate and the approaches that these ings, geographical variation and have taken. This first chapter human remains. The following three shows the deficiencies of the chapters then relate this record to culture-historical approach and so the theoretical topics of space and stresses the need to move over to subsistence, style and interaction an ecologically oriented approach and lastly society, sediments and theory linking the statics of the off with a chapter on the palaeo-The second Gamble nicely outs it "three models

> In comparison to previous synparticularly that of the lithics.

Examples of this can be seen in have no chronological the chapter on the evidence itself, pinnings. added case studies for the southern theme period 20,000-10,000 BP. economic in nature, being the work static time frame (Binford 1984). of Sturdy and Hahn in Germany, and Bailey, Clark, Freeman and Straus lies clearly in Gamble's dissatisof a "peoples and cultures" standing of faunal matters.

Herein lies a certain tension, at best an introduction, Gamble's approach both relies and needs an economic (i.e. faunal) and regional data set. The record for of the skeletal remains, which are Europe has, as he notes, been so important to any discussion of collected as sites and stones (as this subject. Consequently major for example in H. de Lumley's La debates among palaeolithic archaeo-Préhistoire Française Consequently his spatial, social effect of the 'appearance' of Homo and demographic analyses are sapiens sapiens go undiscussed in limited in examples.

There are other present. It seems at times unclear such an enterprise impossible. An whether this is an introduction to excellent bibliography, though, palaeolithic theory, or a presen- does provide a good entry into this tation of the evidence. It ends up literature. being a bit of both, culminating in an illustration of the theory with the European evidence. Within this uneasy sandwich lies the filling of the archaeological record. The main conflict here is the essentially chronological nature of the subject matter (i.e. the changing nature of the adaptations and archaeological record through time) and the treatment of the theory in a synchronous manner. This creates an imbalance between the sections dealing with this historical aspect and those concerned with the identification of palaeolithic behaviour, which

The book, therefore, In addition to the usual discussion does not flow as easily as of geographical variation there are Dennell's recent work on a similar which a chronological and northern provinces for the perspective (Dennell 1983), nor as These well as Binford's which treats studies are essentially faunal and hunter-gatherer behaviour within a

As an introduction to current in Cantabria. The reason for this notions in the palaeolithic, the book is both clear and comprehenfaction with the lithic evidence, sive, although the section on formed as is within the framework technology and typology is not as sharp as the rest. The glowing approach, and his greater under- forward by Lewis Binford attests to this. As a synthesis of the European palaeolithic record it is instance, there is a conspicuous absence of any detailed treatment [1976]). logists and in particular the any detailed way. The sheer volume of material written about the tensions European evidence, however, makes

> The book does highlight some future problems for palaeolithic archaeologists, as well as some inconsistencies within the current theoretical framework. At a general level the whole relationship between the social and economic aspects of a society, even a 'simple' one, is problematic within the social sciences. Leaving this aside though, the main problem seems to be the attitude towards material culture.

Besides fulfilling a

presumably environmental details graphic approach needs, although a therefore. are. content. Bourdieu (1977) and others, is the palaeolithic of Europe. rarely touched upon. Furthermore. there is little consideration of References how this is likely to be seen in material culture, which after all Binford, L.R. 1984. In Pursuit of makes up the record.

Current studies of style and art Bordes, F. 1968. The Old Stone are particularly vulnerable to such a criticism. To use an example from the book, Gamble interprets the geometric similarity between Venus figurine design across Europe c. 27,000-24,000 BP suggesting that this possibly reflects information network.

It is an interesting idea but falls foul of the criticism of being simple culture-history with the names of the terms changed around. There is no account of how these items would convey such information, nor of how information would be controlled and organised through these objects. Their geometrical similarity might in fact reflect an accurate observation of the geometricality of the human body. Palaeolithic art is known for its representational accuracy. If palaeolithic archaeologists do wish to study social processes a better understanding of the meaning of material culture is a prerequisite. At the moment it role to the theory.

Europe

technical need, material culture is organisationally and theoretically. seen as a medium of information To its great credit the book is exchange. Social relationships and very well illustrated, as such a the assumed map of the 'regions' of Europe The impression one within the chapter on the record receives is one in which freedom of would have been helpful. Despite information is almost 'constitut- the problems of its layout, though, ionally' observed. The notion of it is a good place to begin an social strategy, as envisioned by appreciation of current ideas about

London, Thames and the Past. Hudson.

London, Weidenfeld and Age. Nicholson.

Bourdieu, P. 1977. Outline of a Theory of Practice. Cambridge. Cambridge University Press.

Dennell, R. 1983. European Economic Prehistory. London, Academic Press.

de Lumley, H. (ed.) 1976. La Préhistoire Française. Paris, CNRS.

P. ALLSWORTH-JONES. The Szeletian and the Transition from Middle to Upper Palaeolithic in Europe. Clarendon Press, Oxford, 1986. 412pp (12 plates, 30 tables, 50 figs. and 9 maps). £55.00 (Hard) ISBN 0-19-813401-0.

Reviewed by Tim Reynolds

The Palaeolithic of Central Europe remains one of the least understood areas of Palaeolithic studies as a consequence of the seems to play a merely illustrative restricted number of publications containing significant amounts of information. This is confounded The Palaeolithic Settlement of still further by even fewer could be improved both publications in Western European