

interesting in that it presents PRECIS (a string indexing language) at an early stage in its evolution. PRECIS, Austin argues, is not like the traditional classifications. Whereas the traditional classifications attempted with their main classes to systematize a universe of knowledge, the purpose of PRECIS indexing is to systematize a universe of concepts. Is the distinction between a universe of knowledge (main classes) and one of concepts philosophically tenable? Is there a method of retrieving information that is "nonclassificatory" in nature? In the opinion of the commentator on Austin's paper, J. M. Perreault: "if we seek to escape from classification in its broad sense we are fooling ourselves". (p. 403)

There is one writer from the library classification group who does not contribute his own scheme of things to the *Proceedings*. This is R. A. Fairthorne ("Temporal Structure in Bibliographic Classification"). In a disorganized yet insightful way Fairthorne considers what it might mean to incorporate time structure into a classification. His contribution, however, is more remarkable, in light of the contributions discussed above in that he dismisses, with a simile, the possibility of a general classification. A general classification is something which only an omniscient and omnipotent observer of the classificatory landscape can apprehend. As mere mortals we are as observers looking at the classificatory landscape from different vantage points and all our maps will differ according to our perspective.

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DAHLBERG, Ingetraut: **Grundlagen universaler Wissensordnung.** (Fundamentals of universal organization of knowledge). München: Verlag Dokumentation 1974. XVIII, 366 p. = DGD-Schriftenreihe, Vol. 3

This book is a fundamental treatise dealing with the theoretical foundations of classifying, where classifying is considered as a universally valid method for organizing the widest open set of knowledge-items by recognizing and displaying their interrelationships. The author's aim is to provide sufficient theoretical foundations for showing the feasibility of a new consistent universal classification system and she illustrates this by a brief (only 20 pages long) sketch of a proposed structure of such a system. But the main emphasis of the book is on the development and presentation of a consistent scientific theory of classification and this is an essential and unique feature distinguishing it from other, more locally oriented, previous studies.

It is likely that there will be considerable agreement about the importance of the urgent need for a new consistent universal classification of knowledge, convincingly discussed in the book, particularly in its final chapter describing the various areas of use of the information science (alias 'informatics'), the theory of classification at presents finds itself in the paradoxical situation of a Cinderella, whose dream about the fairy prince of an ideal classification is given less and less credibility. And this happens notwithstanding elements of classification (even in the most traditional sense of monohierarchical orders) are more and more frequently recognized as essential components of such tools of "entirely new type"

as thesauri and postcoordinate index languages of the most sophisticated structure; at the same time the use of universal classification schemes is found to be the only way for bringing some order into the chaotically developing multitude of specialized thesauri and index languages. The author of the book is fully aware of this situation noticing that in the past few decades a critical attitude has developed towards classifications, in general, and towards universal classifications in particular. She provides fairly good explanation for this, considering it as a result of the increased awareness, during this time, of the inadequacies of the currently used universal classifications due to the deeper insights gained of the semantical structure of information. This view is supported by a detailed (80 pages) multiaspect analysis and a judicious comparison of the content and structure of six most used universal classification systems, including the Soviet Library Classification. One has to regret the lack of any discussion of patent classification systems in this fine chapter.

In this reviewer's opinion there is also another important reason for the present scepticism towards classification theory, namely the more or less intentional refusal of some theoreticians of classification to consider seriously and embed in their own thinking the achievements of such a young (compared with the centuries long history of classification) but rapidly developing, research area as that of mechanized information retrieval. Because one has to admit that there *was some* progress in this field, though I fully agree with the remark of D. Soergel (in: Subject retrieval in the seventies — new directions. Wellish, H. (Ed.) 1972, p. 36) that "... the results of classification theory have been neglected or sometimes reinvented in a rather amateurish manner in mechanized information retrieval systems ...".

One important merit of Dahlberg's work is that it not only includes a short but valuable analysis (40 pages) of modern work in the field of post-coordinated index languages, but the experience gained from this analysis is really put to work in developing the theory of classification. At the same time full use is made of other important sources of relevant knowledge.

Some of these sources are analysed in a detailed (70 pages) study of the history of classification and of the various forms and application fields of classification (including the philosophic, pedagogic-didactic, encyclopaedic and library classifications and the different kinds of thesauri). Another source is the analysis of the philosophic (ontologic) bases of the theory of classification (18 pages), preceded by a new reasonable sound system of definitions concerning the meaning of the main terms involved (such a "concept", "characteristic", "category" etc.), proposed in the introductory chapter (30 pages). A different area of knowledge the impact of which on the theory of classification seems to be a particularly important one is that of the philosophy and theory of science. The, as yet unresolved, problem of the satisfactory organization of the great variety of different fields of pure and applied knowledge obviously is of great importance for the success of the operation of national and international information systems; the solution of this problem essentially depends on the

