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*Figures at the end of the issue.*

## BOOK REVIEW

MARCELLE, R., CLIJSTERS, H., VAN POUCKE, M. (ed.): PHOTOSYNTHESIS AND PLANT DEVELOPMENT. Proceedings of a Conference held at the 'Limburgs Universitair Centrum', Diepenbeek, Belgium, 23—29 July 1978. — Dr. W. Junk bv. Publishers, The Hague—Boston—London 1979. 376 pp. Dfl. 130.—.

In the last decade, the evolutionary, ontogenetic changes have become an important aspect of the studies of photosynthesis and primary production. Dr. R. Marcelle and his collaborators must be given a high credit for organizing already the second meeting of scientists who are interested in this branch of biology. Soon after a successful symposium and the appearance of the book "Environmental and Biological Control of Photosynthesis" (Dr. W. Junk, bv. Publ., The Hague 1975 — see Biologia Plantarum **18** : 182, 1976 for review) the reader receives a publication which can be regarded as a continuation of the above volume. The book includes an inaugural address and six sections. The inaugural address by P. F. Wareing "Plant development and crop yield" deals with the direct effects of plant development upon photosynthesis, on the efficiency of light interception, on source/sink relations and on the partitioning and distribution of photosynthates. The first section Photosynthesis and Plant Development describes especially the changes in activities of photosystems during leaf ontogeny, the effect of leaf age on photosynthesis and photorespiration and on the leaf architecture. Section Two is devoted to the relationships between photosynthesis, flowering and crop growth. The third section explains in detail, discusses and shows the significance of mineral nutrition and growth regulators as factors in limiting photosynthesis. The following section called Photosynthesis and source-sink relations deals in detail with photosynthate translocation and distribution, mostly in relation to growth. The relationships between photosynthesis and nitrogen metabolism are discussed in Section Five. Pathological aspects of photosynthesis studies and the effect of pesticides on photosynthesis are dealt with in the last section. The book is complemented with a short subject index. It is a unique source of information for all who study photosynthesis and related processes as well as primary production and growth from the developmental point of view.

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