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W. FREY, H. Hurka & F. OBERWINKLER, *Beiträge zur Biologie der niederen Pflanzen. Systematik. Stammesgeschichte. Ökologie.* (G. Fisher, Stuttgart, New York, 1977.) Pp. 233, 118 Text-figs. Price: DM 58.—.

This book is dedicated to Prof. Dr. K. Mägdefrau (Münster, Germany) at the occasion of his 70th birthday. Several of his colleagues and former students have contributed on the theme 'Adaptation of cryptogamic organisms to their environment'. Modern opinions about the fungi in this respect are given in the chapters: Chemotaxonomy of the fungi (18 pp, by A. Bresinsky), Problems concerning the system of the Ascomycetes (15 pp, by E. Müller), and The new system of the Basidiomycetes (45 pp, by F. Oberwinkler).

F. FLÜCK-WIRTH, *Krypto Gesamt-Katalog Nr. 4 Botanik (Biologie).* (Krypto, Teufen, Switzerland, 1977). Pp. 719. Price: sFr. 17.50 (or free, when orders for books over sFr. 100.— are placed).

In this catalogue of botanical literature an enormous amount of bibliographical work has been involved. Of about 5600 titles of available and forthcoming botanical literature, bibliographical data are given with great accuracy. Summaries of contents for most entries are provided. The greatest weight is placed with algae, mosses, fungi, lichens, ferns, and flowering plants. An author index and an extensive subject index aid in locating individual or special works more quickly.