Among the systems of enzyme regulation the following are discussed: the feedback effect on the first enzyme of a pathway in the biosynthetic way of bacteria, regulation of enzyme activity by covalent and allosteric mechanisms, regulation with the use of isoenzymes with various regulating properties, the possibility of separate catalytic and regulatory subunits in a single enzyme, multifunctional enzyme and multienzyme complexes, *etc.*

Each chapter is provided with instructive figures, models, tables and references. The book is very well written. It will be useful to the students of biochemistry, especially enzymologists, physiologists, microbiologists and to all specialists studying the regulation of the metabolism, cell mechanisms and hormone actions on the molecular level.

VĚRA HADAČOVÁ (*Praha*)

JAKOBY, W. B. (ed.): ENZYME PURIFICATION AND RELATED TECHNIQUES. PART C. — COLOWICK, S. P., KAPLAN, N. O. (ed.): Methods in Enzymology, Vol. 104. — Academic Press, Orlando—San Diego-New York—London—Toronto—Montreal—Sydney—Tokyo 1984. 528 pp. US $ 60.00.

This part of the big series of enzymologic methods was written by 52 leading specialists from the U.S.A. (26, mainly from the National Institutes of Health, Bethesda), England (6), Israel (6), Sweden (5), the Federal Republic of Germany (4), Australia (2), Switzerland (1), Spain (1) and Czechoslovakia (1). It is a supplement to the volume XXII, published in 1972, presenting a number of novel purification methods and many modifications of existing procedures, as well as entirely new methods, *e.g.* the high performance liquid chromatography.

The book is divided into five sections: Chromatography (including affinity chromatography, hydrophobic chromatography, high performance liquid chromatography, displacement chromatography of proteins), Electrophoresis (polyacrylamide gel electrophoresis, preparative isoelectric focusing, affinity electrophoresis, preparative isotachophoresis), Techniques for membrane proteins (solubilization, separating of detergents from proteins, purification reconstitution), Other separation techniques (protein precipitation with polyethylene glycol, affinity partitioning, affinity precipitation of dehydrogenases, protein crystallization, immunosorbent separation), and Related techniques (preparation of high purity laboratory water, buffers for enzymes, protein assay for dilute solutions, gel protein including enzyme staining, fluorography for the detection of radioactivity in gels).

In each chapter theoretical principles of the individual methods are described, as well as their historical development with all positive modifications. The literature concerning each topic goes to the year 1983. Further, the best of the methods is described and its critical points are discussed. The book is written so that it is comprehensible to non-specialist in a particular subject and, on the other hand, provides the specialist with all the news.

The book, as the whole series, has a high standard in both its content and form. There is a number of tables and figures elucidating individual topics. The author index has 34 pp., the subject index 25 pp. and bibliography is added to each subchapter.

The book will be very useful to biochemists and biologists.

VĚRA HADAČOVÁ (*Praha*)

ANNOUNCEMENT

AIBS – INTERNATIONAL SYMPOSIUM ON GRASS SYSTEMATICS AND EVOLUTION

The Smithsonian Institution in conjunction with the American Institute of Biological Sciences and the National Sciences Foundation is sponsoring an international symposium on grass systematics and evolution at the Smithsonian in Washington, DC, from 27—31 July 1986. At this meeting more than 40 of the world's authorities on grass biology will present papers on structural diversity, reproductive biology, biochemical diversity, evolution, and systematics. These presentations will summarize recent research, identify current problems, stimulate new research, and facilitate the international and interdisciplinary exchange of ideas and data.

For further information contact Louise Salmon, AIBS, 730 11th Street, N.W., Washington, DC 20001-4584. Tel.: 202/628-1500.