



## THE BIOCHEMICAL SOCIETY

The Biochemical Society exists to advance the science of biochemistry through meetings and publications. Several meetings a year are held, each at a different place; original papers are presented and special topics are discussed at symposia and colloquia.

### OFFICERS AND COMMITTEE: 1985-1986

*Chairman*

**H. M. Keir, F.R.S.E.**

*Treasurer*

**B. Spencer**

*General Secretary*

**R. H. Burdon, F.R.S.E.**

*Publications Secretary*

**G. B. Ansell**

*Meetings Secretary*

**A. D. B. Malcolm**

*Committee*

**M. Akhtar, F.R.S.**

**H. Baum**

**R. B. Beechey**

**S. Doonan**

**D. Fisher\*†**

**L. A. Fothergill-Gilmore**

**M. D. Houslay**

**G. G. Lunt**

**M. J. Morgan**

**C. I. Pogson\*‡**

**P. J. Quinn**

**E. D. Saggerson**

**P. G. Strange**

**I. P. Trayer**

**E. J. Wood**

\* *Ex officio* Member of Committee

† Representative of Group Secretaries

‡ Representative of Editorial Board  
of the *Biochemical Journal*

*Executive Secretary: G. D. Jones (7 Warwick Court, London WC1R 5DP)*

Persons interested in biochemistry are eligible for election as Members. Details of further facilities accorded to Members, and forms of application for membership, are available from the **Executive Secretary, The Biochemical Society, 7 Warwick Court, London WC1R 5DP** [01-242 1076 (4 lines)].

*BIOCHEMICAL SOCIETY SYMPOSIUM No. 50*  
*held at St. George's Hospital Medical School, London, December 1984*

## The Molecular Basis of Movement Through Membranes

ORGANIZED AND EDITED BY

**P. J. QUINN AND C. A. PASTERNAK**

Price **£30.00 (US \$55.00)**



Order from  
**THE BIOCHEMICAL SOCIETY BOOK DEPOT**  
**PO Box 32, Commerce Way, Colchester CO2 8HP, Essex, U.K.**

# ***BIOTECHNOLOGY***

Edited by C. F. PHELPS  
and P. H. CLARKE

The fourteen contributions forming this volume were presented at a London meeting of the Biochemical Society including the Society's Forty-Eighth Symposium 'Biotechnology', in December 1982. With today's increasing pressures to develop latest laboratory findings into practical industrial processes as quickly as possible the chosen theme of this Symposium was a timely one. The papers represent up-to-date reports from international biochemists whose work is of direct relevance to the wide areas of interests concerned with biotechnology, together with glimpses of the early development of its techniques and a look at its exciting future.

List of contents and authors:

*Preface. How Biotechnology Developed at University College London* by **E. M. Crook**. *The Future of Biotechnology* by **P. Dunnill**. *Carbohydrate Transformations by Immobilized Cells* by **C. Bucke**. *Biological Halogenation and Epoxidation* by **S. L. Neidleman & J. Geigert**. *High-Productivity Alcohol Fermentations using Zymomonas mobilis* by **M. L. Skotnicki, R. G. Warr, A. E. Goodman, K. J. Lee & P. L. Rogers**. *The Problem of Lignin Biodegradation* by **L. Wallace, A. Paterson, A. McCarthy, U. Raeder, L. Ramsey, M. MacDonald, R. Haylock & P. Broda**. *Special Bacterial Polysaccharides and Polysaccharases* by **T. Harada**. *A New Era of Exploitation of Microbial Metabolites* by **A. L. Demain**. *Industrial Prospects for Thermophiles and Thermophilic Enzymes* by **B. S. Hartley & M. A. Payton**. *Anaerobic Fermentations – Some New Possibilities* by **J. G. Morris**. *Xenobiotic Degradation in Industrial Sewage: Haloaromatics as Target Substrates* by **H. J. Knackmuss**. *Genetic Analysis and Manipulation of Catabolic Pathways in Pseudomonas* by **P. R. Lehrbach & K. N. Timmis**. *Plant Cell Cloning and Culture Products* by **L. H. Jones**. *A Hybrid Promoter and Portable Shine-Dalgarno Regions of Escherichia coli* by **H. A. De Boer, L. J. Comstock, A. Hui, E. Wong & M. Vasser**. *Subject Index*.

257 pp. ISBN 0 904498 15 8 £25.00 (US \$57.50)



Order from  
**THE BIOCHEMICAL SOCIETY BOOK DEPOT**  
PO Box 32, Commerce Way, Colchester CO2 8HP, Essex, U.K.

**NEW  
VERSION**

# WIMP

## *Molecule – Drawing Software*

by Professor H. W. Whitlock of the University of Wisconsin, Madison



**Wisconsin Interactive Molecule Processor (WIMP)** is the computer program that allows you to draw organic chemical structures, reaction schemes and diagrams of exceptionally high quality, suitable for publications, presentations, etc.

A host of powerful features includes drawing, replication and inversion of structures of virtually unlimited complexity and size. It is written in a compiled high-level language.

- WIMP** requires:
- 256K of memory
  - 7475 Hewlett-Packard plotter or equivalent
  - color graphics adapter and color monitor
  - serial port
  - MS-DOS, PC-DOS operating system 2.0 or higher

**WIMP with MOUSE** — This new version of the WIMP program, V2.00, replaces the V1.70 and supports Microsoft® MOUSE and PC-MOUSE.

**Z14,877-6 WIMP computer program, enhancement V2.00 with MOUSE adaptation \$180.00**  
Includes user's manual.

**Z14,849-0 WIMP User's Manual \$7.50**

\* Registered trademark of Microsoft Corporation



chemists helping chemists in research & industry

**aldrich chemical co.**

® P.O. Box 355, Milwaukee, Wisconsin 53201 USA • (414) 273-3850