International Union of Nutritional Sciences Congress, Mexico City, 3–9 September
Info: Dr. A. Chávez, Viaducto Tlalpan y San Fernando, Mexico 22, D.F., Mexico.

13th International Congress for Cell Biology, Brighton, U.K., 4–8 September
Info: Dr. B.M. Richards, Searle Laboratories, Lane End Road, Searle, High Wycombe, Bucks., England.

5th European Congress of Electron Microscopy, Manchester, 5–12 September
Info: University of Manchester Institute of Science and Technology, Manchester, England.

International Symposium on Protoplasts, Versailles, 10–16 September
Info: Dr. G. Morel, Station Centrale de Pathologie Végétale, C.N.R.A., Étoile de Choisy, Route de Saint-Cyr, 78 Versailles, France.

'Aspects Dynamiques des Changements de Conformation dans les Macromolécules Biologiques', Orléans, 19–22 September
23 ème Réunion Annuelle de la Société de Chimie physique. Propositions de communication (avant le 1er mars 1972) et info: Secrétaire Général, Société de Chimie physique, 10, rue Vaquelin, 75–Paris 5e, France.

International Conference on Prostaglandins, Vienna, 25–28 September
Topics: Biological activity and Structure; Biosynthesis and metabolism; Analytical methods; Metabolic effects; Gastro-intestinal system; Renal and circulatory system; Nervous system; Reproduction. Registration and abstract deadlines: 1 April 1972. Info: Dr. med. S. Bernhard, Scientific Relations, Schering AG, Müllerstr. 170/172, 1 Berlin 65, Germany.

3rd International Symposium on Yeast Protoplasts, Salamanca, 2–6 October
Topics: Yeast cell wall lytic enzymes; Structure and morphogenesis; Physiology and biochemistry of yeast protoplasts; Protoplasts of molds; Protoplasts of higher plants. Further info: Prof. J.R. Villanueva, Departamento de Microbiología, Universidad de Salamanca, Salamanca, Spain.

International Symposium on 'Control Mechanisms in Reagin-mediated Hypersensitivity', Montreal, Canada, 16–18 October
Topics: Mechanisms controlling the synthesis of reaginic antibodies; Target cell sensitization; Release of chemical mediators. Info: Dr. L. Goodfriend, Division of Immunology and Allergy, Royal Victoria Hospital, Montreal 112, Quebec, Canada.

Symposium on 'Interactions between Proteins and Ligands and their Relevance to Membrane Phenomena', Buenos Aires, November
Sponsored by IUB. Info: Dr. A.C. Paladini, Facultad de Farmacia y Bioquímica, Junín 956, Buenos Aires, Argentina.

North West European Microbiological Fourth Group Meeting, Bristol, U.K., 12–14 December
Info: Dr. P.H. Clarke, Dept. of Biochemistry, University College, London, WC1E 6BT, England.

Winter Meeting of the British Biophysical Society. Organiser: Dr. A.C.T. North, Dept. of Zoology, Laboratory of Molecular Biophysics, South Park Road, Oxford, England. It is also planned to hold an EXHIBITION of the types of Molecular Models currently in use and a Demonstration of other methods representing molecular structures. The organisers of this exhibition (Dr. D.M. Blow, MRC Laboratory of Molecular Biology, Hills Road, Cambridge, CB2 2QH, and Dr. W.J. Pigram, Biophysics Dept., 26 Drury Lane, London WC2) will welcome suggestions for exhibits.

International and Other Meetings, 1973

5th Miami Winter Symposia, Miami, 14–19 January
The first of the two Symposia will be entitled 'Protein Phosphorylation in Control Mechanisms'. 4th Lynen Lecture (E.W. Sutherland) on 'My Life and Cyclic AMP'. Further info: 5th Winter Symposium, Dept. of Biochemistry, University of Miami School of Medicine, P.O. Box 875, Biscayne Annex, Miami, Fla. 33152, USA.

PAABS Symposium on 'Biochemical Control Mechanisms', Quebec, 25 February–3 March
Arranged by the Canadian Biochemical Society. Info: Dr. B.D. Sanwal, Dept. of Cell Biology, Medical Sciences Building, University of Toronto, Toronto, Ont., Canada.

9th International Congress of Biochemistry, Stockholm, 1–7 July
Scientific contributions will be presented within the following fields: Separation Methods for Macromolecules; Structure and Function of Proteins; Biosynthesis of Nucleic Acids and Proteins; Bioenergetics; Membrane Biochemistry; Immunochemistry; Metabolic Function of Oxygenases; Regulation of Intermediary Metabolism; Biochemistry of Lipids. Further info: Dr. G. Aulin-Erdtman, Secretary-General of the 9th International Congress, c/o Svenska Kemist-samfundet, Wenner-Gren Center, 6 tr., S-113 46 Stockholm, Sweden.

FEBS Advanced Courses, 1972
Information about FEBS Advanced Courses may be obtained from Professor M. Gruber, Biochemisch Laboratorium der Rijksuniversiteit te Groningen, Zerniklaan, Groningen, The Netherlands.
No. 20, 'Modern Aspects of Chemical Carcinogenesis', London, 18–21 April

Topics: Metabolism of chemical carcinogens and interaction with cellular macromolecules; Nucleic acid repair and its possible role in chemical carcinogenesis; Possible inter-relations between chemical and viral carcinogenesis. The Course Fee of £17–£20 ($40–$50) will include accommodation and board. As the number of participants who can be accepted for the Course is limited, those interested should apply without delay. Further info: Prof. P.N. Magee, Courtauld Institute of Biochemistry, Middlesex Hospital Medical School, London, W1P 5PR, England.

No. 21. 'Enzyme Regulation', Madrid, 5–28 June

The Course is jointly sponsored by ICRO. A course of lectures and laboratory work on enzyme regulation, including non-hyperbolic kinetics, induced fit, allosterism, interconvertible enzymes, primarily regulatory enzymes and enzyme sub-units, control of enzyme levels, metabolic messengers, evaluation of free metabolites, membrane bound enzymes, enzyme activities in physiological conditions, purification of regulatory enzymes, and metabolic integration at the enzyme level, plus monographic seminars on related research work. The language of the Course will be English, and admission will be limited to 20 full-time participants and up to 10 additional attendants without laboratory work. Participation fee: 5,000 pesetas (ca. $70). It may be possible to support the expenses of well-qualified applicants. Young postdoctoralfs with a good scientific background and working knowledge of English will be preferred. Further info and application forms from Prof. A. Sols, Instituto de Enzimologia, Velázquez 144, Madrid-6, Spain. The deadline for applications is 29 February 1972.

No. 22. 'Mathematical Models of Metabolic Regulation'. Jena, DDR, 6–14 November

The Course is organized by H. Frunder (Jena) and J.G. Reich (Berlin-Buch), and will consist of plenary lectures, seminars and discussions. It is hoped to cover the following basic concepts: Thermodynamic and kinetic theories; Mathematical models of metabolic networks; Models of molecular structure and descriptive models of enzymes, etc. Instructive seminars should be held on topics such as the use of algebraic methods and of topological schemes to formulate the rate laws, and the principles of estimation of kinetic parameters. Computer modelling will be covered, but more from the conceptual than from the technical point of view. A good Fortran-accepting machine will be available for demonstration and discussion. A section of seminars on related phenomena which are of interest in the field of metabolic regulation (e.g. allosterism of oscillations) will follow. The language of the Course will be English. Participants should have a moderate mathematical background, corresponding to a college course of higher calculus and the basic facts of linear algebra (matrix calculus) and of mathematical statistics. Some Algol-60 or Fortran practice will be useful. There will be a course fee of about $100. Further info and applications: Prof. Dr. H. Frunder, Physiologisch-Chemisches Institut, Zentraler Platz, 69 Jena, DDR or Dr. J.G. Reich, Forschungszentrum für Molekularbiologie und Medizin, Lindenberger Weg 70, 1115 Berlin-Buch, DDR.

Other Courses, 1972

The Technique and Applications of Activation Analyzers, Harwell, England, 15–17 March

A course intended essentially for those with a scientific background who wish to know more about the advantages of this technique and how it can be applied to their own problems, both academic and industrial. Enquiries about this course should be sent as soon as possible to: The Analytical R & D Unit, A.E.R.E., Harwell, Nr. Didcot, Berks., England.

Advanced Course on 'Kinetics of Enzymatic Reactions', Caracas, Venezuela, 1–30 June

Info: Dr. R. Apitz, Instituto Venezolano de Investigaciones Científicas, Depto. de Bioquímica, Apdo. 1827, Caracas, Venezuela.

EMBO Summer School on 'Separation of Macromolecules and Particles', Uppsala, 5–10 June

Organized by Professors S. Hjertén, A. Tiselius and J. Porath. A course of lectures, demonstrations and practical exercises in biochemical separation techniques, for 30 European researchers, who should have a good speaking knowledge of English and some previous experience in separation techniques. Registration fee: £25. Applications to Prof. S. Hjertén, Institute of Biochemistry, EMBO Summer School, University of Uppsala, Box 531, S-751 21 Uppsala 1, Sweden, before 1 April 1972.

4th Workshop Course on Zonal Centrifugation, Guildford, England, starting 11 July

A course for novices, with emphasis on batch-type zonal rotors. Info: Dr. E. Reid, Wolfson Bioanalytical Centre, University of Surrey, Lea Paul Lane, Guildford, Surrey, England.

III International Course on Techniques of Molecular Biology, Santiago, Chile, 15 July – 10 August

For young Latin-American researchers. Info: Dr. Jorge E. Allende, Dept. of Chemistry, Faculty of Sciences, University of Chile, Casilla 6671, Santiago 4, Chile.

Residential Course on 'Enzyme and Fermentation Biotechnology', Guildford, England, 17–21 July 1972

Jointly organized by the Biochemistry Department at the University of Surrey and the Microbiology Group of the Society of Chemical Industry, the course is aimed at those who wish to deepen and broaden their expertise in this field. The inclusive cost will be £40 (£38 for S.C.I. members). As accommodation is limited, application should be made to: The Assistant Secretary, The Society of Chemical Industry, 14 Belgrave Square, London SW1, England, as soon as possible.

4th Harden Conference, on 'Morphogenesis', Wye College, Ashford, England, 10–15 September

Info: The Executive Secretary, The Biochemical Society, 7 Warwick Court, London, WC1R 5DP, England.

Chemical Society Summer School on 'Interaction of Small Molecules with Biological Systems', Cirencester, England, 17–22 September

Info: Dr. M.D. Robinson, Royal Institute of Chemistry, 30 Russell Square, London, WC1B 5DT, England.