

F E B S A D V A N C E D C O U R S E S

**No. 48. PHYSICO-CHEMICAL METHODS FOR
STUDYING THE STRUCTURE AND
FUNCTION OF PROTEINS****Moscow/Pushchino, USSR, 14-28 June 1977**

The Course, organized by Yu.A. Ovchinnikov and A.S. Spirin, will consist of lectures and demonstrations on the following topics:

- I. Methods of modification and of sequence determination (4 lectures and 3 demonstrations)
- II. X-ray, spectroscopic and theoretical investigations of conformation (8 lectures and 8 demonstrations)
- III. Selected topics of structure-functional aspects of proteins (rhodopsins, ribosomal proteins, animal toxins, DNA-dependent RNA polymerase and others) (8 lectures)

The language of the Course will be English and the total number of participants, 70.

Registration fee: \$50, including board and lodging.

Applications should include a short curriculum vitae and all information that might be useful in their evaluation. They should be sent **before 16 March 1977** to: Dr V.T. Ivanov, USSR Academy of Sciences, Shemyakin Institute of Bioorganic Chemistry, Ul. Vavilova 32, Moscow 117312, USSR.

**No. 49. BIOCHEMICAL ENGINEERING:
THE TRANSLATION OF BIOCHEMISTRY AND
MICROBIOLOGY INTO INDUSTRIAL
PROCESSES****London, England, 19-21 September 1977**

The 3-day Course, organized by P. Dunnill, M.D. Lilly and M. Hoare, will survey the field of biochemical engineering, and will deal with selected key areas such as fermentation, immobilised enzyme and cell reactors and with the processing of proteins and enzymes.

Total number of participants: 35.

Registration fee, including board and lodging: £35.

Closing date for applications: **1 June 1977**.

Applications should be sent to: Dr P. Dunnill, Biochemical Engineering Section, Department of Chemical Engineering, University College London, Torrington Place, London, WC1E 7JE, England, from whom further information may be obtained.

No. 47. NMR IN BIOCHEMISTRY
**Island of Schiermonnikoog, nr. Groningen,
The Netherlands, 2-9 October 1977**

This Course is organized by H.J.C. Berendsen, R. Kaptein and G.T. Robillard, and is meant to introduce the biochemical applications of NMR to chemists and biochemists, who wish to apply this technique in their research. A knowledge of the basics of NMR is assumed. The Course will include a demonstration on the 360 MHz instrument in Groningen.

Maximum number of participants: 40.

Registration fee, including board and lodging and local travel: Dfl. 425,-.

Applications should be sent **by 1 June 1977** to: R. Kaptein, Department of Physical Chemistry, The University of Groningen, Zernikelaan, Groningen, The Netherlands NL 8002.

No. 46. BIOMEMBRANES AND LIPIDS
**Utrecht, The Netherlands,
31 October — 4 November 1977**

The Course is organized by R.A. Demel, J. de Gier and B. Roelofsen, for 25 participants. The lectures will discuss the role and function of lipids in biomembranes, and laboratory demonstrations will be organized on methods for the characterization of chemical and physical properties of structural lipids. Special attention will be paid to the use of membrane model systems.

Registration fee, including board and lodging: Dfl. 400,-.

Applications should be sent **by 30 June 1977** to: Dr J. de Gier, The University of Utrecht, Department of Biochemistry, Padualaan 8, Utrecht 2506, The Netherlands.

F E B S Y O U T H T R A V E L F U N D

This fund is to assist biochemists from FEBS countries, normally below the age of 31, to go abroad to attend an Advanced Course sponsored by FEBS. Each Course Organizer is given an allocation from the Fund and grants are made by the FEBS Treasurer in consultation with the Course Organizer concerned. Application forms may be obtained from Course Organizers or the Treasurer (Professor S.P. Datta, Department of Biochemistry, University College London, Gower Street, London, WC1E 6BT, England).