

ANNOUNCEMENTS

SEMINAR IN MACHINERY NOISE AND DIAGNOSTICS

This six-day seminar, taught by Professor RICHARD H. LYON of M. I. T., will be offered the week of 8-13 August, 1988 in Cambridge, Mass. The seminar teaches the design principles for making machines operate more quietly, and the use of vibration and acoustical signals to determine faults in operating machines. Sources of noise and vibration in machines, and signal processing methods for fault signature recovery will be covered in the lectures and demonstrations. The text for the course is Professor Lyon's new book, *Machinery Noise and Diagnostics* published by Butterworths.

For further information contact:

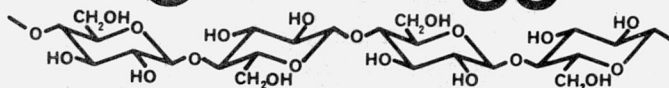
Prof. R. H. Lyon, Rm. 3-366
Massachusetts Institute of Technology
77 Massachusetts Avenue
Cambridge, Massachusetts 02139, USA

CELLUCON CONFERENCES

announce the fourth
international cellucon conference



CELLUCON '89



CELLULOSE: SOURCES AND EXPLOITATION

Industrial Utilisation, Biotechnology and Physico-chemical Properties

4-8 September 1989

Cartrefle College
North East Wales Institute
Wrexham, Wales, UK

First Circular



Following two successful conferences in the UK, the proceedings of which are published by Ellis Horwood (Cellulose and its Derivatives, 1985 and Wood and Cellulosics, 1987) and a conference to be held in association with the Society of Fibre Science and Technology, Japan (Cellucon '88 Japan) in Kyoto, 28 November - 1 December 1988 (the proceedings of which will also be published by Ellis Horwood) **CELLUCON CONFERENCES** are pleased to announce:-

CELLUCON '89

CELLULOSE: SOURCES AND EXPLOITATION

Industrial Utilisation, Biotechnology and Physico-chemical Properties

The fourth International Cellulose Conference, to be held at Cartrefle College, North East Wales Institute, Wrexham, Wales, UK, 4 - 8 September 1989

Papers are invited on the following subjects:

- Agriculture and silviculture
- High yield pulping, chemical pulping, pulp bleaching
- New objectives in pulp production, treatment and handling
- Alternative sources to wood - cotton, grass, straw, bagasse
- Pulp effluent treatment
- Non biochemical uses of wood and pulp waste products
- Formation of wood products by adhesion
- Preservation of wood by impregnation
- Building materials - mortars, plasters, board
- Decorative and protective surface coatings
- New applications of cellulosic derivatives
- Effect of pulp type on the products which can be obtained
- Developments in the dissolution of cellulose
- Solution properties of cellulose and cellulose derivatives
- Biodegradation of wood, lignin, hemicellulose and cellulose
- Production of fermentable cellulosic feedstocks
- Fermentation of cellulosic feedstocks to useful products
- Analytical techniques - hplc, gpc, ESCA, nmr

The Conference will be accompanied by poster presentations and an industrial exhibition of companies, products and equipment related to the subject. The proceedings will be published.

For **further information** please return the slip below to: Cellucon Conferences Secretariat, Research Division, North East Wales Institute, Deeside, Clwyd CH5 4BR, Wales, UK.

