

COMMUNICATIONS **OFFICIELLES**

Les membres du personnel sont censés avoir pris connaissance des communications officielles ci-après.

OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading

CONTROLE DES CHANGES

Le Directeur de l'Administration informe le personnel que des discussions sont en cours avec les autorités françaises sur la réglementation relative aux relations financières entre la France et l'étranger.

Le moment venu, des informations précises et complètes seront données dans le Bulletin hebdomadaire.

Si les membres du personnel rencontrent des difficultés lors de leur passage à la frontière, ils peuvent s'adresser au Service des Relations avec les Etats-hôtes, tél. 5152.

EXCHANGE CONTROLS

The Director of Administration wishes to inform the personnel that discussions are now being held with the French authorities regarding French foreign exchange regulations.

Full detailed information will be given in the Weekly Bulletin in due course.

Should members of the personnel experience any difficulties when crossing the border they may contact the Service for Relations with the Host States, tel. 5152.

SEMINARS **SEMINAIRES**

Tuesday 16 August

CERN COLLOQUIUM

at 16.30 hrs - Auditorium *

Brain without mind; computer simulation of dynamic neural networks

by John W. CLARK / Washington Univ., St. Louis

After a brief review of the physical basis for signal transmission in the nervous system, a model of an unspecified portion of brain tissue is formulated in terms of a network of interacting neurons, operating deterministically or stochastically in discrete time. The neuron-neuron interactions at synapses are modelled by a connection matrix (V_{ij}). Modification (plasticity) of the V_{ij} induced by correlated activity of neurons is considered to represent the underlying mechanism of higher mental phenomena such as pattern analysis, learning, memory, and association. The results of computer simulations of the microscopic behaviour of the model are described, with special attention to a 'brainwashing' plasticity algorithm which promotes efficient self-organization of networks with initially quasirandom connectivity.

*) Tea and coffee will be provided at 16.00 hrs.

Thursday 18 August

CERN COLLOQUIUM

at 16.30 hrs - Auditorium *

Time as a dynamical variable and discrete mechanics

by T. D. LEE / Columbia Univ.

The possibility that time can be regarded as a dynamical variable is examined through all phases of mechanics, from classical to quantum. This leads to the formulation of discrete mechanics, with the random lattice field theory emerging as one of its applications. The usual quantum theory then appears as an approximation. Application to QCD is discussed.

*) Tea and coffee will be provided at 16.00 hrs.

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

SECRETARIAL DEVELOPMENT

After the success of the two first seminars for secretaries, we can now announce a third seminar with the same programme :

Dates :

20 - 21 - 24 October 1983

Venue :

Château de Penthes, Pavillon Gallatin

Subject :

Secretarial Development

Consultant :

Niven CHARVET / International Training Consultants