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Week Monday 20 May

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Semaine du lundi 20 mai

COMMUNICATIONS OFFICIELLES

OFFICIAL NEWS

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

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COMITÉ DE CONCERTATION PERMANENT

STANDING CONCERTATION COMMITTEE

Lors de sa réunion du 23 avril 1991, le Comité de concertation permanent a débattu les sujets suivants.

L'Association du personnel a demandé à être informée sur le document relatif au programme scientifique et aux budgets pour 1991-1995, destiné au Comité des directives scientifiques, en raison de ses conséquences pour les budgets du personnel.

L'Association du personnel a demandé quand le projet de document concernant la politique d'avancement au mérite serait disponible, afin que le Conseil du personnel puisse l'étudier. La Direction a déclaré qu'elle espérait qu'il serait disponible très rapidement, en sorte que la réunion du Conseil du personnel puisse avoir lieu. W. Middelkoop a proposé d'y participer pour répondre aux questions.

L'actuaire-conseil de la Caisse de pensions étudie actuellement la possibilité de modifier le coût du rachat d'annuités et les valeurs de transfert, qui sera étudiée par le Comité après les vacances d'été.

L'Association du personnel a demandé une nouvelle fois que le personnel à temps partiel soit considéré pour l'octroi de contrats de durée indéterminée. L'Administration sollicitera l'avis du comité consultatif sur les contrats de durée indéterminée et informera le Directeur général.

Il a été décidé de créer un groupe de travail chargé d'examiner la proposition de la Direction visant à porter de 40 à 50 centimes l'indemnité kilométrique en cas d'utilisation des véhicules privés pour activités officielles.

Le Comité a examiné un projet de document élaboré par N. F. Blackburne et M. Borghini au sujet de l'indemnité de non-résidence.

Les statistiques des accidents en 1990 ont été examinées et il a été demandé à la Division ST d'améliorer les efforts accomplis en hiver pour dégager les parkings de la neige et de la glace, causes de plusieurs accidents.

At the meeting of the Standing Concertation Committee on 23 April 1991 the following topics were discussed.

The Staff Association asked to be informed about the Scientific Policy Committee document on the scientific programme and budgets for 1991-1995, because of the implications for the personnel budgets.

The Staff Association asked when the draft document on merit-oriented advancement policy would be available, so that the Staff Council could study it. The Management stated that they hoped it would be available very soon, so that the Staff Council meeting could go ahead. W. Middelkoop offered to attend to answer questions.

The consulting actuary of the Pension Fund is studying possible modifications to the cost of buying added years and the transfer values, which will be discussed by the Committee after the summer holidays.

The Staff Association maintained its request that part-time staff should be considered for the award of an indefinite appointment. The Management will seek the opinion of the advisory board for indefinite appointments, and inform the Director-General.

It was decided to establish a Working Group to examine the proposal of the Management to increase the kilometre allowance for the use of private vehicles for official business from 40 to 50 centimes.

The Committee discussed a draft document prepared by N. F. Blackburne and M. Borghini concerning the non-resident allowance.

The statistics of accidents in 1990 were examined, and the ST Division was asked to improve the efforts to clear away ice and snow from the car parks in winter, as they have been the cause of several accidents.

B. Duthion presented the annual report of the Mutual Aid Fund for 1990, which was endorsed by the Committee.

B. Duthion a présenté le rapport annuel du Fonds d'entraide pour 1990, qui a été approuvé par le Comité.

La prochaine réunion ordinaire du Comité se tiendra le 28 mai 1991.

The next regular meeting of the Committee will take place on 28 May 1991.

SEMINARS SEMINAIRES

Tuesday 21 May

SPS AND LEAR EXPERIMENTS COMMITTEE

at 14.00 hrs – Auditorium

Open session

1. *Study of baryon and antibaryon spectra in lead-lead interactions (Bari - Bergen - Birmingham - CERN - Collège de France - Genova - Legnaro - Padova - Rome - Salerno - Serpukhov - Strasbourg - Trieste; SPSLC 91-29 / P 263) : E. Quercigh.*
2. *Large acceptance hadron detector for an investigation of Pb-induced reactions at the CERN SPS; NA35 collaboration (Athens - Cracow - Darmstadt (GSI) - Frankfurt - Freiburg - LBL - Marburg - Munich (MPI) - Warsaw (Inst. of Nuclear Studies) - Warsaw (Univ.) - Seattle - Zagreb; SPSLC 91-31 / P 264) : R. Stock.*
3. *Proposal for a large acceptance hadron and photon spectrometer (Geneva - Darmstadt (GSI) - Jammu - Moscow - Groningen - Lund - Münster - Oak Ridge - Chandigarh - Jaipur - Knoxville - Utrecht - Calcutta; SPSLC 91-17 / P 260) : H.H. Gutbrod.*

Closed session

starting probably right after the Open Session and continuing on Wednesday 22 May at 09.00h – 6th floor Conference Room

Tuesday 21 May

BERNARD GREGORY LECTURE 1991

at 14.30 hrs – Council Chamber

Fractals in physics – from fraction dimensions to negative dimensions

by Benoit B. MANDELBROT / Physics Department, IBM, T.J. Watson Research Center, Yorktown Heights, New York & Mathematics Department, Yale University

The author will sketch a variety of problems in physics in which fractal sets and multifractal measures play a central role. He will dwell on some ways in which differential equations – which necessarily assume great smoothness in nature – inevitably generate fractals – which model extreme unsmoothness. He will describe how the needs of physics have made it necessary to allow the notion of dimension, which is classically an integer, to take fractional values (à la Hausdorff-Besicovitch) and, most recently, to take negative values.

Information : M. Jacob / TH / 2414

Tuesday 21 May

COMPUTING SEMINAR

14.30 to 16.00 hrs* – CN Auditorium
bldg 31 / 3-005

RISC architecture trends

by Dileep BHANDARKAR / Technical Director of Workstation Engineering, Digital Equipment Corporation

RISC architecture is now widely accepted as a means for achieving high performance with microprocessor technology. First generation RISC systems offer almost three times higher performance than their CISC counterparts using similar technology and machine organisation. Continuing advances in semiconductor technology allow superscalar and superpipelined implementations of RISC architectures. Such implementations can provide a tremendous improvement in performance. Near-vector performance can be achieved without requiring vector instructions. Superscalar machines can issue several instructions per cycle. Superpipelined machines can issue only one instruction per cycle, but they have cycle times shorter than the latency of any functional unit. The next generation RISC machines will feature superscalar or superpipelined single chip implementation with on-chip caches.

Organizer : N. Cremel / CN

* Please note unusual day

Wednesday 22 May

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The equivalence of the top quark condensate and the elementary Higgs field

by Peter HASENFRATZ / University of Bern

Several recent works suggest replacing the fundamental Higgs boson by a top quark condensate, in analogy with the Nambu-Jona-Lasinio (NJL) mechanism. It can be shown in the large N_c limit that the field-theoretically correct replacement is a generalized NJL model. The physics of this model is fully equivalent to the corresponding simplified Standard Model where the Higgs boson is represented by an elementary scalar field. The NJL mechanism does not lead to new physical predictions or constraints. It is difficult to give physical significance to notions like composite versus fundamental, or dynamical symmetry breaking in this scheme. The results can be generalized to QED where the photon occurs as a 'composite' object.