

Le Sous-groupe qui examine les **Conditions d'emploi des professeurs de langues**, composé de M. Bénot, J. Cuthbert et R. Pittin, a proposé un plan d'intégration des professeurs dans le système de protection sociale du CERN, plan qui a été approuvé avec quelques modifications.

G.L. Munday a présenté un rapport sur les séances de formation organisées pour l'introduction du système d'**Entretiens périodiques**. Ces séances se déroulent de façon satisfaisante.

Le Comité a discuté la préparation de la prochaine réunion du Comité consultatif sur les conditions de l'emploi qui aura lieu les 22 et 23 avril 1986. La réunion sera consacrée principalement à l'**Allocation pour frais d'études** au CERN et aux **Modifications aux Statut et Règlement du Personnel**. Il a été convenu d'étendre le mandat du Sous-groupe du Comité de concertation permanent sur les traitements, présidé par N.F. Blackburne, afin d'englober également l'examen des allocations et indemnités.

Enfin, le Comité a approuvé les propositions concernant les Dons aux Communautés locales, le Fonds d'entraide, le Programme des conférences et la Procédure administrative en cas d'accident grave.

La prochaine réunion du Comité aura lieu le 30 avril 1986.

The Sub-Group that examined the **Employment conditions of Language Teachers**, composed of M. Bénot, J. Cuthbert and R. Pittin, proposed a plan for integrating the teachers into the social security system at CERN, which was approved with a few minor amendments.

G.L. Munday reported on the training sessions for the introduction of the **Periodic Review** system, which are progressing satisfactorily.

The Committee discussed the preparations for the next meeting of the Consultative Committee on Employment Conditions, which will take place on 22 and 23 April 1986. The meeting will be devoted principally to the **Education Grant** at CERN and the **Amendments to the texts of the Staff Rules and Regulations**. It was agreed to extend the mandate of the Standing Concertation Committee Sub-Group on Salaries, under its Chairman N.F. Blackburne, so as to include the review of allowances as well.

Finally the Committee agreed to the proposals on Gifts to Local Communities, Mutual Aid Fund, Conference Programme and the Administrative procedure in the event of serious accidents.

The next meeting of the Committee will take place on 30 April 1986.

SEMINARS SEMINAIRES

Monday 7 April

EF SEMINAR

at 11.00 hrs – EF Conference Room
bldg 13, 2-005

Monitoring and control for LEP Experiments using G-64

by A. BALL / CERN

The G-64 bus was promoted by a number of European system companies and has become a widely used 8-bit standard. Based on a single 'Eurocard' format, it provides a cheap, reliable medium for intelligent monitoring and control applications. The talk will cover the use of G-64 within CERN, the level of user support, and describe some of the most recent developments in hardware and software. A general purpose chassis system (MAC-64) using the G-64 bus has been designed in EF division for equipment monitoring and control in the LEP experiments. Details of the MAC-64 system, applications and communication with the control computers will be discussed.

Monday 7 April

EP SEMINAR

at 16.30 hrs – Auditorium

Large transverse momentum direct photon and neutral pion production in pi-minus p, pi-plus p and pp collisions at 300 GeV/c

by Michael WÜLKER / University of Freiburg

Results on large transverse momentum direct photon and neutral pion production in pi-minus p, pi-plus p and pp collisions at 300 GeV/c are presented from the full data sample of experiment NA24. A clear signal for direct photon production is observed in all reactions for transverse momenta $p_T > 4$ GeV/c. The cross-sections are measured up to $p_T = 7$ GeV/c ($x_T = 0.6$) in pi-minus and up to $p_T = 6$ GeV/c ($x_T = 0.5$) in pi-plus and pp collisions. At large p_T , the direct photon production cross-section is increasing in pi-minus collisions relative to pi-plus collisions as expected from valence quark anti-quark annihilation. The neutral pion production cross-sections at large p_T are the same in pi-minus p and pi-plus p collisions. They decrease faster with p_T in pp collisions than in pi-p collisions.

Wednesday 9 April

TECHNICAL PRESENTATION

at 10.00 hrs – DD Auditorium
Bldg 31, 3rd floor

Aspects of the new IBM 3090 Models

by C.A. HERITIER / IBM

New models of the IBM 3090 have been announced recently. The 3090 family now covers, from the mono-processor Model 150 to the large quadratic Model 400, a performance range of 1 to 5. Various internal characteristics of the IBM 3090 system will be discussed, such as expanded memory, internal/ external storage hierarchy, vector facility etc. Mention will be made as well of the new IBM 4381 Models

Wednesday 9 April

PS SEMINAR

at 11.00 hrs – PS Auditorium
(bldg 6)

Electron linacs as seen by a proton specialist

by L. LAPOSTOLLE

The seminar will mainly insist on the differences between electron and proton linacs. Electrons move almost all along the machine at the velocity of light and no phase stability mechanism can take place. The situation, however, depends on the amplitude of the accelerating field. Beam loading affects directly the energy spread. RF cavities are normally used in the travelling wave mode and their optimization takes a special form. Constant velocity favours beam break-up which has, in its various forms been for a long time a serious limitation to beam intensities. A special device is nowadays frequently used to increase the energy at the expense of the pulse length. Acceleration of positrons, a possibility used in many linacs, may lead to strange situations.

Wednesday 9 April

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

On the nature of the EMC effect

by A.V. EFREMOV / Dubna

From the QCD evolution equation and the experimental data one can show that large x EMC depletion is a consequence of the decrease of the valence quark's average momenta fraction. Compensation of it by the soft part of the valence distribution [or by (anti)screening of valence quarks] seems impossible. Compensation by pions in nuclei or by sea quark and gluon effects due to rescaling seems unsatisfactory. An explanation of EMC due to a simple relativistic effect is proposed and favoured by NA4 and SLAC data.

Wednesday 9 April

LEP SEMINAR

at 14.30 hrs – LEP Auditorium
bldg 30, 7th floor

The LEP-BI equipment data base

by R. SABAN / CERN-LEP

The data base, organized around the functionality of equipments, provides the technical support for installation and maintenance and may represent a fundamental ground for the operation of the machine. The system has two essential aspects : firstly it can be given the description of a piece of equipment in terms of its components and their connections. The system can later replicate this equipment and assist an operator to 'install it' in a certain part of the machine : for this, free ports of existing components will be used or, the installation of new components (racks, chassis, modules, etc) will be requested. The outputs are cabling lists, cable labels, rack and chassis layouts, hardware addresses for computer access of the equipment, etc. The connection of the database to the LEP Control System ensures a site-wide round the clock access to the information.

Monday 14 April

EF SEMINAR

at 11.00 hrs – EF Conference Room
bldg 13, 2-005

EMC Data production on 370E emulators

by J. BEAUFAYS and F. CHEVRIER / CERN

A test farm of four 370E emulators has been installed on the VAX 780 of the ERASME system in order to evaluate all aspects of off-line applications. The status of this project will be described. The EMC collaboration has been using this set-up for the production of a portion of their data. The results of this evaluation will be presented. The plans for a future exploitation of the system by the new muon collaboration will be discussed.

Monday 14 April

TECHNICAL PRESENTATION

at 14.00 hrs – DD Auditorium
Bldg 31, 3rd floor

Charles River personal workstations

by R. SONNABEND / Director International Marketing & Sales, Charles River Data Systems, Massachusetts

There will be a general overview of the product range of Charles River which includes Motorola and VME bus desktop or rack mountable systems. The machines run the real-time UNOS operating system which was inspired by UNIX. The networking product Universnet will be presented along with an overview of networking including the position of TCP-IP. Universnet implements the seven-layer Open System Interconnection (OSI) networking standards of the International Standards Organisation (ISO). James Isaak, Director Product Planning, will describe their work towards international UNIX standardization.

Monday 14 April

EP SEMINAR

at 16.30 hrs – Auditorium

QCD tests in the UA1 experiment

by W.G. SCOTT / CERN-RAL

We review some of what we have learned about QCD related topics in the UA1 experiment at the CERN SPS proton-antiproton collider.

Tuesday 15 April

CAS ACCELERATOR SEMINAR

at 14.00 hrs – Auditorium

Very long base interferometry

by J. CAMPBELL / Geodetic Inst., Bonn

Wednesday 16 April

TECHNICAL PRESENTATION

at 10.00 hrs – DD Auditorium
bldg 31, 3rd floor

Apollo's new generation of workstations

by C.L. FER / Managing Director Apollo Switzerland and M. REYMOND / Branch Manager Apollo Geneva

Mercredi 16 avril

REUNION OUVERTE DU LEP

at 14.30 hrs – Amphithéâtre du LEP
dernier étage du bâtiment 30

1. Annonces

2. Vidéo : 'Avancement des travaux de génie civil'

3. Convertisseurs de puissance pour le LEP

par H.W. ISCH

Friday 18 April

TECHNICAL PRESENTATION

at 10.00 hrs – DD Auditorium
bldg 31, 3rd floor

Linking IBM and DEC systems together

by Chris HOPPER / Interlink Computer Science
California, USA

SEMINAIRES EF DU PRINTEMPS 1986

Ce printemps, la division EF organise une nouvelle série de séminaires.

Programme préliminaire :

EF SPRING SEMINARS 1986

EF Division is organizing a new series of seminars to take place this spring.

Preliminary programme :

7 avril	Monitoring and control for LEP experiments using G-64 by A. BALL / CERN	7 April
14 avril	EMC Data production on 37OE emulators by J. BEAUFAYS and F. CHEVRIER / CERN	14 April
21 avril	Highlights of the 1986 Vienna wire chamber conference by R. CIRIO / CERN	21 April
28 avril	The DELPHI time projection chamber (TPC) by H. FOETH / CERN	28 April
5 mai	Towards 100 GeV in LEP with supraconducting cavities by D. BLOESS / CERN	5 May
12 mai	Electron drift in room temperature liquids by D. SCHINZEL / CERN	12 May
26 mai	Electronic CAD in the research divisions by B. HECK / CERN	26 May
2 juin	Progress in L3/BGO calorimetry by M. SCHNEEGANS / CERN	2 June
23 juin	Report on the conference 'Frontier detectors for frontier physics' held in Castigione della Pescaia by T. MEYER / CERN	23 June

Sauf avis contraire, les séminaires auront lieu le lundi de 11.00 h à 12.00 h dans la Salle de Conférence EF, Bât. 13, 2-005.

Unless otherwise indicated, the seminars will take place on Mondays from 11.00 hrs to 12.00 hrs in the EF Conference Room, Bldg 13, 2-005.