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OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading. Reproduction of all or part of this information by persons or institutions external to the Organization requires the prior approval of the CERN management.

COMITE DES PENSIONS

Lors de sa 45e réunion, tenue en commun avec la Commission de Placement, le Comité a procédé à l'examen périodique de la politique d'investissement de la Caisse dont il a fixé les lignes directrices pour l'année en cours.

Il a entendu un exposé de l'Administrateur sur la gestion du portefeuille, à laquelle collaborent actuellement deux grandes banques suisses, une banque privée et diverses institutions financières qui assurent à la Caisse un large accès aux différents marchés boursiers. La mise en oeuvre progressive des propositions du CRC a également été évoquée.

Ensuite, le Comité a débattu de l'opportunité de présenter la question du déficit technique de la Caisse au Conseil dans un document séparé. Il a finalement été convenu de traiter cette question oralement dans le cadre de la présentation du rapport annuel et de se réserver la possibilité de soumettre un rapport écrit assorti de propositions après qu'il aura été procédé à des consultations internes.

Les membres du Comité ont pris connaissance d'une note de M. P. Levaux concernant la Caisse de Pensions qui a été soumise au Comité du Conseil. Ils ont exprimé le souhait de pouvoir approfondir les points évoqués dans cette note lors d'une prochaine rencontre avec M. Levaux.

Les tractations en cours en vue de la réalisation d'un projet immobilier seront poursuivies.

PENSIONS BOARD

At its 45th meeting, held jointly with the Investment Board, the Pensions Board undertook its regular review of the Fund's investment policy and laid down broad guidelines on it for the year.

The Board heard a report from the Administrator on the management of the portfolio which is now being handled through two major Swiss banks, one private bank and various financial institutions, thereby giving the Fund access to a variety of stock markets. The gradual implementation of the proposals made by the CRC was also mentioned.

The Board then discussed whether the question of the Fund's technical deficit should be presented to the Council in the form of a separate document. It was eventually agreed that it should be covered orally as part of the presentation of the Annual Report, while keeping open the option of submitting a written report, including proposals, after internal consultations have been held.

Members of the Board took note of a paper sent to the Committee of Council by Mr P. Levaux concerning the Pension Fund. They hoped to be able to look into the points raised in greater detail at a meeting to be held shortly with Mr P. Levaux.

The Fund would push ahead with negotiations regarding a real estate project.

SEMINARS **SEMINAIRES**

Monday 6 June

SPECIAL PS ACCELERATOR SEMINAR

at 11.00 hrs – Auditorium

Betatron motion and lattices

by E. J. N. WILSON / CERN-PS

The course is intended for anyone with a technical or scientific background who would like to become familiar with the principles of accelerator design. The level of the course is chosen with the intention of preparing those

with no specialist knowledge of accelerator theory for the CERN Accelerator School in September, but it will also be of interest to a much wider audience from all the technical Divisions. This is the third in a series of seven talks on all aspects of circular machines which will cover in a simple way the principles of focusing, betatron motion, dispersion, chromaticity, radio frequency systems and phase stability and beam instabilities. The special features of electron machines will be emphasized in preparation for LEP.

Monday 6 June

CAS ACCELERATOR SEMINAR

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

The theory of beam break-up in r.f. linacs

by R. L. GLUCKSTERN / University of Maryland

*The interaction between the transverse displacement of a beam bunch and the transverse modes of a cavity can lead to large amplification of the displacement in a chain of such cavities. The theory of this phenomenon, known as **cumulative beam break-up** when the cavities are uncoupled, will be presented and compared with the results of numerical simulations. Modifications due to smooth or random variation of some of the parameters will be discussed. Finally, the effect of coupling between the cavities will be included, illuminating the transition of **regenerative beam break-up**.*

Monday 6 June

EP SEMINAR

at 16.30 hrs – Auditorium

Structure functions in 280 GeV muon-nucleus scattering at low x and Q^2

by B. BADELEK / European Muon Collaboration

Inelastic scattering of positive muons by deuterium, carbon and calcium has been measured by the EMC. A dedicated small trigger system made possible the recording of events with scattering angles down to 2 mrad. Structure functions F_2 , were extracted in the kinematic range of low x (0.003-0.1) and Q^2 (0.3-3.2 GeV²). No significant x dependence of F_2^D is observed; approximately the same scaling behaviour of F_2^D as seen at high Q^2 holds in the Q^2 range measured here. The ratio F_2^{Ca}/F_2^D shows a significant x dependence which is interpreted as a shadowing effect. No strong Q^2 dependence is observed. This suggests the effect is due at least partially to parton interactions within the nucleus.

Tuesday 7 June

TECHNICAL PRESENTATION

09.30 - 11.15 hrs – LEP Auditorium
bldg 30, 7th floor

Technical presentation talk by design engineers from Fujitsu Microelectronic (J). Swiss representative : Eljapex AG.

Topics

09.30 hrs : new high speed static RAMs – new BICMOS, ECL RAMs, TTL RAMs – new BICMOS, PROMs – ASIC, digital (with integrated fast memory), analog, mixed technology – custom design interface.

11.00 hrs : discussion.

Langue : English

Information : M. Diraison / FI / 4585

Tuesday 7 June

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

What is the quark model?

by Nathan ISGUR / University of Toronto

Although it is one of the most effective models we have for the strong interaction at low energy, the status of the quark model within QCD is far from clear. I will describe progress made in understanding the success of this model in terms of a simple physicist picture which itself makes many reality testable predictions on the way the quark model breaks down at high energy.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 8 June

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Conformal field theory techniques in statistical mechanics

by H. SALEUR / Saclay

A general overview for the application of two-dimensional conformal field theory method in statistical mechanics systems is presented. Some recent results and current directions of research in this area are also discussed.

Wednesday 8 June

COMPUTER SEMINAR

at 16.00 hrs – Auditorium

Parallel computer architecture overview

by Philip C. TRELEAVEN / University College London, Department of Computer Science

The commercial golden age of parallel computing that industry prophets have long predicted now seems to be arriving. An increasing number of parallel computer products are appearing in the market place. Their design motivations and market areas cover a broad spectrum : (i) Transaction Processing Systems, such as Parallel UNIX systems (e.g. SEQUENT Balance) for data processing applications; (ii) Numeric Supercomputers, such as Hypercube systems (e.g. INTEL iPSC) for scientific and engineering applications; (iii) VLSI Architectures, such as parallel microcomputers (e.g. INMOS Transputer) for exploiting very large scales of integration; (iv) High Level Language Computers, such as Logic machines (e.g. FUJITSU Kabu Wake) for symbolic computation; and (v) Neurocomputers, such as the Connectionist computers (e.g. THINKING MACHINES Connection Machine) for general-purpose pattern matching applications. This lecture gives an overview of these novel parallel computers and discusses the likely commercial impact of parallel computers.

Philip Treleaven is Professor of Computer Science at University College London. His research interests include parallel computer architecture, new forms of programming languages, fault-tolerant computing, and very large scale integration. He is a European authority on so-called Fifth Generation computers and on national research programmes such as Japan's FGCS project, ESPRIT and ALVEY. He has also worked at the Japanese Fifth Generation research institute (ICOT) in Tokyo. Treleaven holds a BTech from Brunel University, and MSc and PhD degrees from Manchester University, England.

* Tea & coffee will be served at 15.30 hrs.

Thursday 9 June

PRESENTATION

at 14.00 hrs – PS Auditorium
bldg 6, 2-024

Microsoft and OS/2

by Messrs. BREITENBACH & HAINK /
Microsoft GmbH

Messrs. Breitenbach & Haink will present the structure and functionality of the new operating system OS/2 as well as an overview of current and future products from Microsoft.

Thursday 9 June

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3-005

The Iowa Logic Specification Language

by Douglas W. JONES / University of Iowa

The Iowa Logic Specification Language is a hardware description language developed at the University of Iowa between 1983 and the present. This language allows the description of digital systems in terms of gate-level components and user-defined subsystems. The language is used as input to a logic simulator. This system is being used for student assignments involving as many as 1000 primitive gates in an introductory digital hardware course. The Iowa Logic Specification Language can be viewed as a dataflow language with only one primitive data type, the bit, and some very general abstraction facilities similar to those in languages such as Modula and Ada. The use of data abstraction in a dataflow language poses interesting problems in language design.

Friday 10 June

MEETINGS ON

PARTICLE PHYSICS PHENOMENOLOGY

at 11.00 hrs – TH Conference Room

Experiment and theory on heavy ion collisions (especially J/ψ suppression)

by R. SALMERON / Ecole Polytechnique,
Palaiseau & F. KARSCH / CERN

Monday 13 June

SPECIAL PS ACCELERATOR SEMINAR

at 14.00 hrs* – Auditorium

Multipoles and Resonances

by E. J. N. WILSON / CERN-PS

* *Please note unusual time!*

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Tuesday 14 June

OPEN PRESENTATION

STATUS REPORT ON THE LAA PROJECT

09.00 to 18.00 hrs – Council Chamber

Introduction : A. Zichichi, Project Leader

- *High precision tracking*
 - a) *Scintillating fibres*
 - b) *Gaseous detectors*
 - c) *Microstrip GaAs*
- *Calorimetry*
 - a) *High precision electromagnetic*
 - b) *Compact EM + hadronic*
- *Large area devices*
 - a) *Construction*
 - b) *Alignment*
- *Leading particle detection*
- *Application specific integrated circuits*
 - a) *Silicon*
- *Data acquisition and analysis*
- *Supercomputers and Monte Carlo simulations*
- *Very high magnetic fields*
- *Superconductivity at high temperature*

The proposals for new contributions to the Project will also be presented.

Mercredi 15 juin

REUNION OUVERTE DU LEP

à 14.30 h – Amphithéâtre LEP
bât. 30, 7e étage

Avancement des travaux d'installation électrique du LEP

par O. BAYARD / CERN-LEP

- *Rapport d'avancement à la date de présentation (réseau de transport, sous-stations, contrôle du réseau, câblage de la machine)*
- *Bref rappel des problèmes rencontrés et des remèdes*
- *Regard sur le futur (gestion informatique centralisée de l'exploitation et des études).*

Wednesday 15 June

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3-005

'Whos, Whys and Wherefores' of LISP

by J. Scott PENBERTHY / Yorktown