

COMMUNICATIONS **OFFICIELLES**

Les membres du personnel sont censés avoir pris connaissance des communications officielles ci-après. La reproduction même partielle de ces informations par des personnes ou des institutions externes à l'Organisation exige l'approbation préalable de la Direction du CERN.

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 DE LA CAISSE D'ASSURANCES

Le Comité des Pensions a tenu sa 17^e réunion le 10 octobre 1985.

Il a tout d'abord été informé par son vice-président du résultat de la réunion du 19 septembre du Comité des Finances en ce qui concerne la quatrième étape de l'amélioration des pensions et des discussions intervenues au Groupe de travail tripartite sur les pensions, qui s'est réuni les 9 et 10 octobre, à propos de la question des garanties et de celle de l'assurance-maladie des bénéficiaires de la Caisse.

M. R.F. Heyn a fait part au Comité de la présentation au Comité du Conseil des propositions relatives à la gestion future du portefeuille d'investissements de la Caisse.

Le Comité a ensuite donné son accord à l'acquisition par la Caisse d'une forêt de chênes de quelque 600 ha en France.

Au nombre des questions administratives traitées figuraient une réponse de l'actuaire-conseil quant aux barèmes applicables aux rachats d'annuités par l'Organisation en cas de travail par roulement ainsi que l'adaptation des pensions à compter du 1^{er} janvier 1986. A cet effet, le Comité a décidé de proposer l'application de l'indice du coût de la vie à Genève, soit 3,5 %, aux pensions en cours de versement.

L'Administrateur a annoncé avec regret le décès de M. Friedrich Isenschmid, retraité.

STAFF INSURANCE SCHEME PENSIONS BOARD

The Pensions Board held its 17th meeting on 10 October 1985.

Firstly, its Vice-Chairman informed it of the result of the Finance Committee meeting of 19 September concerning the fourth step in the pensions improvement system and the discussions of the Tripartite Working Group on Pensions which met on 9 and 10 October concerning the matters of guarantees and health insurance for the Scheme's beneficiaries.

Dr R.F. Heyn informed the Board of the presentation to the Committee of Council of proposals concerning the future management of the Scheme's investment portfolio.

The Board then gave its consent to the purchase by the Scheme of an oak forest covering some 600 ha in France.

The administrative questions dealt with included a reply from the consulting actuary relating to the rates applicable to the buying-in of additional periods of membership by the Organization for shift workers and the adjustment of pensions from 1st January 1986. Here, the Board decided to propose the application of the Geneva cost-of-living index of 3.5% to pensions now being paid.

The Administrator announced with regret the death of Mr Friedrich Isenschmid, retired member.

SEMINARS **SEMINAIRES**

Monday 21 October EP SEMINAR

at 16.30 hrs – Auditorium

Measurement of nuclear effects in deep inelastic muon scattering on deuterium, nitrogen and iron targets

by P. REIMER / JINR, Dubna

The Bologna-CERN-Dubna-Munich-Saclay collaboration (NA4 experiment) has made a first dedicated measurement of nuclear effects in deep inelastic lepton scattering ('EMC effect') in the high Q^2 regime, with special emphasis on minimizing systematic errors. Final results on the structure function (F_2) ratios of iron and deuterium and of nitrogen and deuterium will be presented and compared to earlier data.

Tuesday 22 October IBM PC USER FORUM

at 09.30 hrs – DD Auditorium
(Bldg 31, 3-005)

The personal computer project
by I. WILLERS

Overview of the IBM PC Architecture
by T. HEALD

The purpose of this Forum is to provide a means of exchanging technical information among users. The Forum will be held at regular intervals and will be open to all interested parties. Its format will be that of a short technical presentation on a specific subject, followed by an open question and answer session.

Wednesday 23 October

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Breaking extended supergravity

by L. GIRARDELLO / CERN and Università di Milano

The status of spontaneous breaking of supersymmetry in extended supergravity theories is reviewed. A mechanism to solve the problem of partial supersymmetry breaking in 4-D Minkowski space is presented.

Mercredi 23 octobre

SEMINAIRE LEP

à 14.30 h – Amphithéâtre LEP
(Bât. 30, 7^e étage)

Désorption de gaz provoquée par des rayons X

par N. HILLERET / CERN-LEP

La charge de gaz principale pour le système de pompage général de LEP est constituée par les gaz désorbés des parois de la chambre à vide sous l'impact du rayonnement synchrotronique. Parmi les méthodes de simulation possibles de ce phénomène de désorption, l'utilisation d'un faisceau de rayons X est une méthode simple pour reproduire, en laboratoire, certains des effets liés à un bombardement de photons. Dans cet exposé, après avoir rappelé les principaux mécanismes de désorption d'un gaz par l'impact de particules énergétiques, on décrira le dispositif expérimental et les principaux résultats obtenus concernant l'influence de divers traitements de nettoyage sur les taux de désorption d'une surface d'aluminium.

Thursday 24 October

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Present and future instrumental projects at the European Southern Observatory

by G. SETTI / European Southern Observatory, Garching

A brief outline of instrumental projects currently in their execution phase (NTT and SEST) will be provided. These new telescopes will be located at the ESO observing site in La Silla (Chile). With less than a year to go until the launch of the space telescope, the astronomical community is actively involved in the discussion of future, ambitious plans for very large ground-based telescopes. At ESO, feasibility studies for a very large telescope (VLT) with a collecting area equivalent to a 16 m diameter telescope are underway. The scientific rationale underlying the need for such an instrument, together with its main technical features, will be presented in the light of challenging problems at the frontiers of astronomy and cosmology.

* Tea and coffee will be provided at 16.00 hrs.

Friday 25 October

TIS SEMINAR

at 10.00 hrs – LEP Auditorium
(Bldg. 30, 7th floor)

Selected topics from the research programme of the Environmental Measurements Laboratory, New York

by Keran O'BRIEN

The Environmental Measurements Laboratory (EML) is a US Department of Energy research and development laboratory. Its main field of study is that of radiations, radioactivity and other pollutants that have an impact on human health and the environment. An overview of EML's history and programmes will be given.

Some recent studies in the production of radioactive isotopes by means of cosmic-ray interactions with the earth's atmosphere and underground will be described. Cosmogenic isotopes produced in the earth's atmosphere yield a small contribution to the neutrino background of Ray Davis' solar neutrino experiment in the Homestake gold mine in Lead South Dakota which was evaluated. This background, and a similar background due to large solar flares, was suspected of producing a significant contribution to the already small count rate in the Homestake detector.

Cosmogenic isotopes produced underground can be used to date geological features such as lava flows. Calculations of cosmic-ray hadron fluxes underground were calculated to assist colleagues at Los Alamos in developing production rates of rare light elements to be used for radioisotope dating.

Vendredi 25 octobre

PRESENTATION TECHNIQUE

de 10.00 à 12.00 h – Bus, parking PTT, bât. 63

AUTAR AG (CH) propose en exposition/démonstration les dernières nouveautés de son programme de représentation et de fabrication : vannes à boules de WORCETER (GB), vannes à papillon de SERCK AUDCO (GB), vannes à boisseau de DEUTSCHE AUDCO (D), actionneurs, éléments de commande et accessoires de AUTAR AG (CH).

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

Friday 25 October

PLEASE NOTE UNUSUAL DAY

EF SEMINAR

at 11.00 hrs – EF Conference Room
(Bldg 13, 2-005)

Results from the TPC at PEP – what we have learned about parton fragmentation

by W. HOFMANN / Berkeley, LBL

Friday 25 October

CAS ACCELERATOR SEMINAR

at 14.00 hrs – Auditorium
PLEASE NOTE CHANGE OF TIME

On the problem of stability in celestial mechanics

by Rudolf DVORAK / Astronomisches Institut der Universität Wien

After discussing the most relevant concepts of stability in Celestial Mechanics, the different methods of analysing motion stability of celestial bodies will be considered by numerical, analytical and qualitative approaches. As one relevant example, the 'restricted three body problem' (where a body of infinitesimally small mass moves in the gravitational field of two massive bodies) will be discussed in detail. Special emphasis is put on stable and unstable motion, ergodic and chaotic behaviour of the system. To conclude, an investigation of possible planetary motions in double star systems will be discussed.

In addition please note

Many of the mathematical techniques used in celestial mechanics may be applicable to accelerator dynamics. Dr Dvorak is presently visiting CERN to explore possible cross-applications between these fields. Those persons whose interest goes beyond the above-mentioned general seminar, are welcome to attend two seminars of the LEP Theory Group on the details of the mathematical methods in the LEP Conference Room (Bldg 30, 6-003) on 23 and 24 October at 14.15 hrs.

Monday 28 October

EF SEMINAR

at 11.00 hrs – EF Conference Room
(Bldg 13, 2-005)

The Stanford Linear Collider (SLC)

by A. MINTEN / CERN

Monday 28 October

EP SEMINAR

at 16.30 hrs – Auditorium

**Triple Jet Production at the ISR and
Determination of the Strong Coupling According
to Lowest Order QCD**

by Hans Henrik THODBERG / Niels Bohr
Institute, Copenhagen

The Axial Field Spectrometer collaboration has studied pp collisions at 63 GeV using a 2- and a 3-jet trigger. It is demonstrated that a sample of well-separated triple high p_T jet events can be described as due to the QCD bremsstrahlung process. The energy flow of these 3-jet events is presented and compared with an independent fragmentation model. From the ratio between the 3- and 2-jet production cross-sections the strong coupling is determined to lowest order.

Wednesday 30 October

PLEASE NOTE UNUSUAL DAY AND TIME

SPECIAL CERN PARTICLE PHYSICS SEMINAR

at 14.00 hrs – Auditorium

**Strange quarks and quark plasma
in nuclear collisions at CERN**

by J. RAFELSKI / University of Cape Town

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

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 24 octobre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tel. 2844-3364

21, 22, 23, 24 and 25 October

11.00 to 12.00 hrs – Auditorium

Basic accelerator optics

by K. STEFFEN / DESY

Lectures 1 to 5