

SEMINARS SEMINAIRES

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

Apollo introduces its new generation of workstations ranging from a low-end workstation to a high-performance colour graphics workstation as compatible members of the DOMAIN workstation family. The new low-end workstation to combine a personal computer's convenient desktop, ergonomic packaging, and the flexible, open architecture of an IBM PC/AT-compatible bus with the high-performance 32-bit Motorola MC 68020 processor and MC 68881 floating point co-processor. The new high-performance colour graphics workstation features real-time, three dimensional (3-D) graphics, greater processing power and larger memory configurations.

Wednesday 16 April

THEORETICAL SEMINAR

at 14.00 hrs – Theory Conference Room

Are there nucleons in the nucleus ?

by J. NOBLE / CERN

Today we believe nucleons are composite objects – confined states of quarks or (perhaps equivalently) topological solitons of Bose fields (Skyrmions). In such descriptions, we must consider the possibility that nucleons in nuclei lose their individual identities and 'dissolve'. This talk will review the evidence – for and against – the standard view of nuclear structure, and the evidence – for and against – the possibility that the nuclear medium significantly modifies nucleons.

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 / CERN

Des convertisseurs de puissance sont nécessaires pour les klystrons RF, les systèmes pour le vide, les aimants, etc. Leurs principes ainsi que l'état actuel de l'avancement seront expliqués.

Thursday 17 April

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3rd floor

HIDRA : A multiple-processor system for multi-channel signal analysis

by P. GUEDES DE OLIVEIRA / Dept. of Electronics and Telecommunications at the Univ. of Aveiro, Portugal

HIDRA is a multiple microprocessor based system for multi-channel hierarchical signal analysis. The system was developed with the purpose of analysing biological signals, mainly the Electroencephalogram (EEG). Each microprocessor pre-processes one channel of EEG in order to detect events; these are converted into feature vectors which are then sent to a common processor. The rationale of the system and its architecture are presented, along with a brief evaluation of its performance. Other applications of the system as an intelligent instrument are proposed and its ability to feed higher stages of analysis is described.

Please note unusual day !

Vendredi 18 avril

PRESENTATION TECHNIQUE

de 09.00 hrs à 12.00 hrs – Parking PTT
Bât. 63

Télemécanique (F/CH) propose en exposition-démonstration son programme électricité industrielle : appareillage de coupure d'installation, appareillage de contrôle et de puissance, régulateurs de vitesse ALTIVAR pour moteurs asynchrones à cage, automates programmables.

Langues : Allemand, français.

Renseignements : M. Diraison / FI / 4585.

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 Sciences
California, USA

Interlink have developed products to link DEC systems to IBM systems. Their products, MVS or VM/Decnet Gateway, allow an IBM host to participate as a peer node in a DECNET network. The presentation will cover the environment, trends, issues and concerns.

Friday 18 April

ISOLDE SEMINAR

at 15.30 hrs – Theory Conference Room

Unexplained electron-positron pair correlation at 1.7 MeV in heavy ion collisions

by H. BACKE / Inst. für Physik, Mainz

Positrons with discrete energies have been observed at G.S.I. in collisions of very heavy ions with heavy target atoms (for example, Uranium on Uranium) at bombarding energies close to the Coulomb barrier. In recent experiments energy correlations of positrons and electrons have been measured which could indicate the decay of a previously unobserved neutral particle with a rest mass of 1.76 MeV.

Monday 21 April

EF SEMINAR

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

Highlights of the 1986 Vienna Wire Chambers Conference

by R. CIRIO / CERN

The Wire Chambers Conference was held in Vienna in February. The most recent developments in gaseous detectors were presented and the aging and laser calibration of such detectors considered. The conference will be reviewed, with particular emphasis on some selected topics.

Monday 21 April

EP SEMINAR

at 16.30 hrs – Auditorium

Total cross-sections for mu-neutrino and mu-antineutrino charged current interactions in hydrogen and neon; and proton structure functions from mu-neutrino and mu-antineutrino hydrogen interactions

by P. SHOTTON / CERN

Total cross-sections for mu-neutrino and mu-antineutrino charged current interactions between 20 and 300 GeV in hydrogen and neon are compared. The data come from consecutive exposures of BEBC filled with hydrogen (WA21) and a neon/hydrogen mixture (WA59) to the CERN Wide Band neutrino beam. The total cross-sections for mu-neutrino and mu-antineutrino charged current interactions in neon measured in the BEBC experiment WA47 using the Narrow Band beam are updated, and used together with the hydrogen-neon cross-section ratios to obtain the total cross-sections on protons with a precision of 6%. The quark density distributions of the proton are then extracted using a data sample of about 15,000 selected events from the WA21 experiment.

Monday 21 April

SCIENCE AND SOCIETY SEMINAR

at 20.30 hrs – Auditorium

Nuclear Winter

J. HARTE / Univ. of California, Berkeley

Following a brief history of developments in our understanding of the potential consequences of nuclear war, the nuclear winter phenomenon will be described and the underlying physics explained. The uncertainties in our present understanding of nuclear winter will be discussed and the current diversity of views about both the phenomenon itself and its policy implications will be presented.

Tuesday 22 April

CERN COLLOQUIUM

at 16.30 hrs – Auditorium *

Acid Precipitation

by J. HARTE / Univ. of California, Berkeley

The first half of the lecture will review current information about acid precipitation and its effects worldwide, emphasizing the distinction between facts and speculations. The second half will describe progress currently being made to resolve some of the major scientific uncertainties. The emphasis here will be on the problems of assigning sources and predicting the future behaviour of acidifying ecosystems.

* Coffee at 16.00 hrs

Wednesday 23 April

LEP SEMINAR

at 14.30 hrs – LEP Auditorium

A 4 MW liquid load for testing of the LEP high voltage D.C. power converters

by K. DAHLERUP-PETERSEN / CERN

Thursday 24 April

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Solar and stellar seismology

by G.R. ISAAK / Univ. of Birmingham

INFORMATIONS

GENERALES

GENERAL INFORMATION

FILMS VIDÉO

**Amphithéâtre – 21 avril 1986
12h30 – 13h15**

Nous avons le plaisir de vous présenter trois films vidéo (environ 35 minutes) :

- le premier est un film général sur l'avancement des travaux du LEP;
- le deuxième montre l'arrivée du tunnelier au puits 5 le 27 mars 1986;
- le dernier, fait par la Télévision Suisse Romande, traite aussi du LEP et sera particulièrement intéressant pour ceux qui n'ont pas eu la possibilité de le voir lorsqu'il est passé à la télévision le 9 janvier.

Harald Bungarten
Public Relations / DG

TRAINING AND EDUCATION ENSEIGNEMENT

ACADEMIC TRAINING

Tel. 2844-3364

16, 17 et 18 avril

11.00 à 12.00 h - Amphithéâtre

Biologie moléculaire (in French)

par F. GROS / Institut Pasteur, Paris

Lundi 21 avril

PILOTAGE DE CARRIÈRE

(Le succès n'est pas un hasard)

à 11.30 hrs – Barraque 593, Salle 11

Conférence donnée en français, par Madame **Esther Jouhet**, responsable de la formation à la Télévision et Radio suisse romande, suivie d'une discussion générale qui pourra se prolonger pendant le déjeuner (Tortella).

Cette conférence étant d'intérêt général, toute personne intéressée est la bienvenue. Elle est organisée par le «Secretarial Discussion Group» avec le support du Service de l'Education.

Pour tout renseignement complémentaire, veuillez contacter Michèle Jouhet (2277) ou Christa Parthé (4619).

N.B. : Copies du compte-rendu de la précédente conférence (IBM) disponibles auprès de M. Robillard / DG (3224) et Ch. Parthé / SPS (4619).

VIDEO FILMS

**Auditorium – 21 April 1986
12.30 – 13.15 hrs**

We are pleased to present three video films (about 35 minutes) :

- the first is a general film on LEP progress;
- the second shows the arrival of the LEP tunnelling machine in pit 5 on 27 March 1986;
- the last, made by Télévision Suisse Romande, is also about LEP and will be particularly interesting for those who missed the original transmission on Télévision Suisse Romande on 9 January.

Harald Bungarten
Public Relations / DG