

carte d'accès et si leur nom figure sur la formule 'Avis d'exécution des travaux en dehors des heures et jours ouvrables du CERN' qui aura été établie en temps voulu.

- **Les visiteurs accompagnés de membres du personnel** seront autorisés à pénétrer sur le domaine pendant la journée, sous la responsabilité de ces derniers.

Par ailleurs, les Divisions voudront bien informer, par écrit, les Services de Secours et du Feu / TIS des travaux qui devront être exécutés pendant cette période, notamment lorsqu'ils le sont par des entreprises.

Groupe Réception  
Tél. 2152

provided that their names are shown on the 'Notice of performance of work outside CERN's normal working hours' which will have been drawn up in good time.

- **Visitors accompanied by members of the personnel** will be allowed access during the daytime on the responsibility of the members of the personnel concerned.

The Divisions are requested to inform the TIS Emergency Service and Fire Brigade in writing of any work to be done during this period, especially if it is to be performed by contractors.

Reception Group  
Tel. 2152

## **SUMMARY OF THE 27th MEETING OF THE ADVISORY COMMITTEE OF CERN USERS HELD ON 21 NOVEMBER 1986**

### **EP electronics pool**

ACCU recorded its satisfaction with the services rendered by the pool in the past, viewed with alarm that at present the pool was unable to buy new equipment, and urged CERN management to find means to stimulate circulation of instruments without introducing charges to users.

### **Restaurants**

ACCU reiterated the necessity of a closing time at 1 a.m. and noted with disappointment the present situation and the wording of the tender. ACCU nominated M. WERLEN to participate in the work of the Restaurant Committee as user representative.

### **Office space**

In view of the continuing lack of office space available to users, ACCU proposed that a CERN-wide study on available space be made.

Next meeting will be held on 13 March 1987.

# **SEMINARS SEMINAIRES**

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## **Monday 15 December**

### **EF SEMINAR**

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

**Modern electronic design  
The CERN-INVOMECH multiproject chip**  
by G. DARBO / CERN

*Between the end of 1985 and the first months of 1986 a group of 8 people from CERN, under the supervision of the Invomech staff of the Belgian Inter-University Micro-Electronic Center, designed 5 electronic circuits (2 analog and 3 digital) to be built using CMOS technology. After the projects had been carefully simulated (computer tested), they were merged to form the total design of a 'multiproject chip' (MPC). A report of the MPC facility for making integrated circuits prototyping together with a brief description of the 5 designs will be given. Moreover a digital design example will be illustrated through the 3 design steps: schematic entry, simulation, layout.*

## **Monday 15 December**

### **EP SEMINAR**

at 16.30 hrs – Auditorium

**A silicon microstrip vertex detector for DELPHI**  
by R. HORISBERGER / CERN

*The detection of heavy flavour events at LEP through secondary vertex reconstruction requires very precise charged particle tracking. A precise micro vertex detector for DELPHI based on silicon microstrip technology is now under development. A review of the current project and its future will be given.*

## **Tuesday 16 December**

### **TECHNICAL PRESENTATION**

from 09.00 hrs to 12.00 hrs  
DD Auditorium, bldg 31, 3-005

*HEWLETT-PACKARD (Suisse) SA are introducing their new Portable RF Spectrum Analyzer (HP 8590A)*

10 kHz to 1.5 GHz, over 100 different functions at the press of a key, and all are programmable over the optional computer interface. Many accessories are available to expand basic analyzer capability : tracking generator, preamplifier, handheld computer, etc.

Languages : French (and English if necessary)  
Information : M. Diraison / FI / 4585.

## Tuesday 16 December

### CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium\*

#### Limits on flavour mixing of leptons from a tau neutrino oscillation search and from tau decays

by J. PRENTICE / University of Toronto,  
and DESY

*Limits on the oscillation of muon and electron neutrinos to tau neutrinos have been established using the E-531 hybrid emulsion spectrometer in the Fermilab wide band neutrino beam. Measurements, in ARGUS, of taus produced by Doris II at DESY have set a 95% confidence level upper limit on the mass of the tau neutrino of 70 MeV. New limits from ARGUS on decay rates of taus to final states containing only charged particles and the properties of some semi-leptonic decay channels will also be discussed.*

\* Tea and coffee will be served at 16.00 hrs.

## Wednesday 17 December

### PRESENTATION

at 10.00 hrs – DD Auditorium  
bldg 31, 3-005

#### Introduction to SPS-7 and SPS-9

by Messrs THORN, BRISSON and  
FILLIETAZ / Bull, Paris

*With the SPS series of products, Bull hope to increase its market share in the areas of :*

- Computer Aided Engineering
- Artificial Intelligence
- Scientific data processing
- UNIX.

*Each machine in the range supports the same native UNIX operating system, compilers and software development tools, allowing the user to fully exploit the CPU power that is available. At the lower end of the range, SPS systems are based on a multiprocessor M68020 architecture, while a novel RISC architecture is used at the high end. Performance ranges from 0.8 to 4.2 Megawhetstones.*

*The speakers will also be available in the afternoon for technical discussions. Please contact D. Williams/DD (Tel. 4282) if you wish to participate.*

## Wednesday 17 December

### PS SEMINAR

at 11.00 hrs – PS Auditorium  
bldg 6, 2-024

#### The EULIMA project

by P. MANDRILLON / IN2P3 and  
Centre A. Lacassagne, Nice, and  
J.-P. MEULDERS / Université Catholique de  
Louvain-la-Neuve

*At the European Organization for Research and Treatment of Cancer (EORTC) meeting held in Nice, on 18-19 October 1985 the idea of a European high energy Light Ion Medical Accelerator (EULIMA) was proposed. On 14 March 1986 a group of potential medical users, radiobiologists, physicists and accelerator engineers from different European countries met at CERN to define the goals of the project and to examine the possibility of carrying out a feasibility study. A request for funding for such a study has been made to the European Economic Community. This talk will summarize both the radiobiological aspects underlying the project and the first thoughts on the accelerator design.*

## Wednesday 17 December

### THEORETICAL SEMINAR

at 14.00 hrs – Theory Conference Room

#### Bosonization in Riemann surfaces and string amplitudes

by L. ALVAREZ-GAUME / CERN

*Some recent results in the higher loop and algebraic structures of string theories are presented. We will describe some efficient methods for the computation of multiloop string diagrams.*

## Mercredi 17 décembre

### SEMINAIRE LEP

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

#### Caméra à balayage de fente et métrologie picoseconde des impulsions de lasers fonctionnant à des taux de répétition élevés

par J.A. MIEHE / CRN, Strasbourg

*Les caractéristiques de différents montages expérimentaux, comprenant une caméra à balayage de fente associée à un laser à colorant fonctionnant en régime de pompage synchrone ou à laser répétitif à modes couplés et déclenché, sont décrites. Les performances temporelles obtenues avec des générateurs de balayage à tension sinusoïdale (80-160 MHz) et à rampe linéaire déclenchée (1 Hz - 1 MHz) sont présentées.*

## Wednesday 17 December

### COMPUTER SEMINAR

at 16.00 hrs – Auditorium

#### International messaging with X.400

by Steve KILLE / University College, London

*Electronic messaging is now an established means of communication within a number of research and industrial communities. The advent of the CCITT X.400 recommendations is a major factor to enable interconnection between many isolated or poorly interconnected systems. This increased connectivity is predicted to lead to a substantial increase in the use of Electronic Messaging. This talk covers a number of areas relating to these changes :*

– an overview of X.400 structure and protocols;

- what X.400 offers the user;
- a description of early experience with X.400, particularly in a European context;
- developments to support complex character sets and multi-media;
- integration into the office/laboratory, and use with workstations/PCs;
- directory services;
- a discussion of systems and services expected to become available in the short/medium term.

#### THE SPEAKER

Steve Kille holds a BA in Physics from Oxford (1978) and MSc degrees in Electrical Engineering from UMIST (1980) and from Stanford University (1981). He has worked as a Research Assistant in the Computer Science Dept of University College, London since 1981, on the development of a Message Handling System used to provide interconnection services between mail networks. He has participated in the development of US message protocols, and is editor of the (revised) UK JNT Mail Protocol. He has also participated in the IFIP WG6.5 work on Messaging and Directory Services over the past three years. His current research work is on Directory Services.

\* Tea and coffee will be served at 15.30 hrs.

## TRAINING AND EDUCATION ENSEIGNEMENT

### ENSEIGNEMENT GENERAL Tél. 2844

#### Jeudi 18 décembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

*Prochain exposé le jeudi 15 janvier*

### ACADEMIC TRAINING Tel. 2844-3364

#### 15, 16 and 17 December

11.00 to 12.00 hrs – Auditorium

**The statistics of very small samples –  
Bayesian and classical approaches**

by F. JAMES / CERN

## INFORMATIONS GENERALES GENERAL INFORMATION

### AUX PERSONNES RESPONSABLES D'EXPERIENCES ET DE LABORATOIRES

En vue du long arrêt des machines (jusqu'au début juin 1987) et afin d'éviter des surprises désagréables pendant l'arrêt de Noël, il est fortement recommandé de réduire **au strict minimum toutes les alimentations électriques, en gaz et en eau** dans les zones expérimentales et les laboratoires.

Si l'usage de gaz explosifs est inévitable, prière de **prévenir le Service du Feu avant le 19 décembre** en donnant des détails sur la nature des gaz et l'endroit où ils se trouvent.

Merci.

### TO PERSONS RESPONSIBLE FOR EXPERIMENTS AND LABORATORIES

In view of the long machine shut-down (until early June 1987) and in order to avoid unpleasant surprises during the Christmas break, it is strongly recommended that all **gas, electric and water supplies** in experimental areas and laboratories are reduced to an **absolute minimum**.

If the use of explosive gases is unavoidable, please **advise the Fire Brigade before 19 December** giving details of the nature and whereabouts of such gases.

Thank you.

EP Safety Advisory Group

### A TOUT LE PERSONNEL REMUNERE Paiement des traitements

Pour l'année 1987, les jours de paie ont été fixés comme suit :

|           |            |
|-----------|------------|
| janvier   | 23, 26, 27 |
| février   | 24, 25, 26 |
| mars      | 24, 25, 26 |
| avril     | 22, 23, 24 |
| mai       | 25, 26, 27 |
| juin      | 24, 25, 26 |
| juillet   | 24, 27, 28 |
| août      | 24, 25, 26 |
| septembre | 23, 24, 25 |
| octobre   | 22, 23, 26 |
| novembre  | 24, 25, 26 |
| décembre  | 16, 17, 18 |

Division des Finances