

en marche les lecteurs de cartes prévus dans le projet d'amélioration de l'accès, dispositifs qui permettront de passer par la porte A en dehors des heures de présence du gardien (les cartes d'accès standard nécessaires seront mises à disposition des personnes autorisées le moment venu). Vous serez informé de la date de mise en opération en temps voulu.

En attendant, et à partir du lundi 16 janvier, les dispositions en vigueur à la porte A sont les suivantes:

- les portails seront ouverts et gardés, comme par le passé, de 7.00 à 9.00 h, de 11.30 à 14.00 h et de 16.30 à 18.30 h du lundi au vendredi
- contrairement aux restrictions du passé, les portails seront ouverts dans les *deux* sens
- en dehors des heures d'ouverture, il est conseillé aux utilisateurs de passer par la porte principale (B)
- le portail donnant accès au secteur Coopin / Interfon / dortoirs sera ouvert entre 7.00 et 19.00 h du lundi au vendredi. L'accès à pied est possible à tout moment en passant à côté de la guérite. Les occupants des dortoirs qui ont une voiture sont priés, en dehors des heures d'ouverture, de garer leur voiture sur le parking devant le bâtiment 4.

Groupe des Services généraux / DA
Tél. 3333

cards will be made available to authorized users in good time). You will be informed of the starting date well in advance.

In the meantime, and from Monday 16 January, arrangements at gate A are the following :

- the gates will be open and guarded, as in the past, from 7.00 to 9.00 hrs, from 11.30 to 14.00 hrs and from 16.30 to 18.30 hrs Monday to Friday
- in contrast to past restrictions, the gates will be open in *both* directions
- outside opening hours, users are advised that they should use the main gate (B)
- the gate giving access to the Coopin / Interfon / dormitory sector will be open from 7.00 to 19.00 hrs Monday to Friday. Access on foot is possible at any time alongside the guard hut. Dormitory occupants who have a car are asked to park their cars outside opening times on the car-park opposite building 4.

General Services Group / DA
Tel. 3333

SEMINARS SEMINAIRES

Monday 16 January

PRESENTATION

at 14.00 hrs - LEP Auditorium
bldg 30, 7th floor

New Products

by Pierre DYSLI / Digital Equipment Corporation SA

New Workstations

- VAXstation 3100 (VAX/VMS)
- DECstation 3100 (Risc machine/ULTRIX)
- VAXstation 3520/3540 (VAX/VMS) (programme announcement)

Workstation software products

- DECwindows
- DECwrite & CDA (Compound Document Architecture)
- DECision
- VAX Imaging Services & VAXscan services
- VMS/ULTRIX connection (reminder)
- PHIGS (programme announcement)
- GKS (programme announcement)
- VAXPC (programme announcement)
- ALL-IN-1 Phase II (programme announcement)

Language : English

Monday 16 January &

Monday 20 February

TECHNICAL CONSULTATIONS

Monday 16 January : 14.00 to 17.00 hrs
Monday 20 February : 14.00 to 17.00 hrs
DD Division Conference Room no. 1
(600/R-017)

Creative Electronic Systems (CES) of Petit-Lancy, Geneva, will be available for informal discussion and technical consultation on all aspects of their products (VMEbus, Camac and Fastbus).

Language : English

Information : C. Parkman / DD / 3963
PMN@CERNVM

Wednesday 18 January

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Special features of Z couplings to fermions and new physics detection

by C. VERZEGNASSI / CERN

I consider a number of observable Z couplings to fermions that will be measured in the very near future in the first phase (no polarization, $E > 110$ GeV, luminosity $> 10^{31}$) of LEP 100. I show that the effect of these quantities of a large number of models predicting a new vector boson Z' is such that one can generate couples of linear combinations of the couplings (and of the W/Z mass ratio) in the plane of which several models (with at least two free parameters) remain simply associated to a straight line. This allows us to establish a correspondence between points of some plane of experimental variables and models that might lead to a complete identification of the latter ones or, in the most pessimistic case, to new and much stricter bounds on their parameters.

Friday 20 January

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 11.00 hrs – TH Conference Room

Detecting the quark-gluon plasma

by G. BERTSCH / Michigan State University

The evidence from ultra-relativistic heavy-ion collisions concerning the putative quark-gluon plasma is reviewed. Observables related to gross dynamics suggest that high-density, moderate-pressure matter is formed in these collisions, and future experiments should permit a definite conclusion. In particular, pion interferometry can provide a clear signal for a new phase. It is also important to have improved measures of the degree of equilibration in these collisions.

Friday 20 January*

EF SEMINAR

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

The CDF online system

by David R. QUARRIE / Fermilab

The CDF Experiment at Fermilab is in the middle of its first major physics run at high luminosity. The completed Data Acquisition and Online Software Systems are therefore experiencing their first real test under operational conditions. An overview of these systems will be presented, highlighting several aspects and comparing design goals with reality and discussing future upgrades. (Note that the speaker can be contacted at CERN between 19 and 21 January c/o J. Harvey / EF / 8-7358).

* Please note unusual day!

Monday 23 January

PRESENTATION

09.00 to 12.00 hrs and 14.00 to 15.00 hrs

Presentation : DD Auditorium, bldg 31, 3-005

Demonstration : DD Conf. Room, bldg 600,
R-017

CADRE / MicroCASE seminar

by Pierre SCHMIT & Markus WACHSMUTH /
CADRE Technologies Europe &
Achilles STAMATIADIS / MicroCASE
Euope

Teamwork from CADRE is a software development system which can be tailored to the needs of programmers developing software for real-time microprocessor environments. The Software Analysis Workstation (SAW) from MicroCASE enables programmers to monitor the real-time execution of their code in a non-intrusive manner. The combined Teamwork and Software Analysis Workstation environment is named Unified CASE and it enables full system lifecycle suport from requirements specification through to testing and maintenance. Representatives of CADRE and MicroCASE will present their products and discuss how they may be integrated into the CERN environment. The seminar will be split into two parts, a presentation of the products in the morning, followed by demonstrations in the afternoon.

- 09.00 Graphical methods for object orientated design
- 10.00 Hardware and software simulation
- 10.30 Code generation for ADA and C
- 11.00 Unified CASE for embedded systems
- 14.00 Demonstration for Teamwork
- 15.00 Demonstration of Software Analysis Workstation

Information : J. Caves / DD / 3511 / JON@PRIAM

Wednesday 25 January

DEC SYSTEM MANAGERS' MEETING

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

1. Minutes of previous meeting and matters arising:
 - Status of VMS V5 Up-grades
 - Escalation procedure (name change)
 - VOTS/OSAK (licence cost)
 - Distribution of SMM Minutes (E-Mail)
2. DEC CERN Account Staff Review
3. DECSERVER Co-ordination
4. Status of 'Dossiers' for DEC Contract Extensions
5. Status of DEC Contracts for 1989
6. New Organization in the DEC Support Centre
7. CERN DEC Joint Project Status
8. DEC Products announced in the last quarter
9. Security Guidelines
10. AOB

Wednesday 25 January

COMPUTER SEMINAR

at 16.00 hrs – Auditorium

The design of the Berkeley RISC II processor

by Manolis KATEVENIS / Computer Science
Institute, FORTH, Crete

Friday 27 January

PRESENTATION

10.00 to 12.00 hrs & 14.00 to 16.00 hrs

DD Auditorium, bldg 31, 3-005

Single Height VMEbus Products

by N. HAUSER / PEP Modular Computers,
West Germany

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844-5811

Jeudi 19 janvier

de 13.00 h à 13.30 h – Auditorium

Science pour tous

par R. CARRERAS

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Tel. 2844-2460

25, 26 & 27 January

11.00 to 12.00 hrs – Auditorium

Calorimetry in high-energy physics

by R. WIGMANS / CERN-EF

Calorimeters play an increasingly important role in high-energy experiments. In order to be able to optimize the performance of these detectors, it is absolutely necessary to understand in detail how they work. This is the subject of these lectures.

We will review the processes through which particles lose energy in dense matter (shower development), and the factor determining the response of an instrumented block of dense matter.

Emphasis will be put on sampling calorimeters, although homogeneous devices for electromagnetic shower detection will be treated as well. The so-called compensation mechanisms, crucial for the performance of hadron calorimeters, will be discussed in detail.

Finally, some attention will be given to current R&D work carried out in view of the very demanding requirements of experiments at future supercolliders.

L'APPRENTISSAGE AU CERN

Information et recrutement

L'apprentissage au CERN est régi par les lois, règlements et contrats en vigueur dans le canton de Genève. En cas de réussite à l'examen de fin d'apprentissage, les apprentis obtiennent le Certificat Fédéral de Capacité suisse.

7 places au total sont offertes pour les 2 professions enseignées au CERN : Electronicien

Laborant en physique

L'apprentissage dure 4 ans.

Minima requis pour faire acte de candidature :

- avoir 15 ans révolus à la date du début de l'apprentissage
- avoir terminé la scolarité obligatoire
- avoir un niveau scolaire correspondant à la 9^e à Genève et à la 3^e en France (avec les mathématiques comme branche forte)
- résider en Suisse ou dans la région frontalière de Genève

- être ressortissant d'un pays-membre du CERN (CH-F-D-GB-I-E-A-B-NL-S-N-DK-GR-P)

Sur demande*, les brochures d'informations et les formulaires de candidature seront envoyés aux intéressés en **février et mars**.

Les candidatures doivent être reçues au plus tard le **15 mars 1989**.

Les candidatures ne seront prises en considération que si elles sont complètes. Des photocopies (*pas les originaux!*) des documents suivants doivent être jointes au formulaire de candidature :

- carte d'identité ou passeport
- toutes les notes scolaires du début du secondaire à l'année en cours, soit : les livret de scolarité et bulletin scolaire suisses, les bulletins trimestriels français, ou autres.

La sélection (test de math., entrevue, stages pratiques) a lieu de mars à mai.