

RENOUVELLEMENT DES DOCUMENTS DE LÉGITIMATION

Les membres du personnel et leur famille détenteurs de

CARTES SUISSES

dont la validité expire au plus tard le 31 décembre 1990, sont priés de les adresser pour prolongation à l'un des services suivants de la Division du Personnel :

- Bureau des Dossiers pour les titulaires
- Service des Boursiers et Attachés.

Pour chaque carte dont la prolongation ne serait plus possible faute de place, il conviendra de joindre 3 photos récentes de format passeport qui serviront à l'établissement d'une nouvelle carte.

Ce qui précède s'applique également aux

CARTES FRANÇAISES

à l'exception du nombre de photos (2 ou lieu de 3).

Compte tenu du nombre de cartes à renouveler, il ne pourra être établi d'attestation dans l'attente du retour des cartes. Vous êtes donc invité(e) à en conserver une photocopie.

Si vous êtes en possession de cartes périmées, l'Organisation ne prend aucune responsabilité en cas de difficulté avec les autorités de Douane ou de Police.

Division du Personnel
Tél. 3238-4682

EXTENSION OF LEGITIMATION DOCUMENTS

Members of the Personnel and their families holders of

SWISS CARDS

due to expire on or before 31 December 1990 should send them for extension to one of the following services of Personnel Division :

- Staff Records for staff members
- Fellows and Associates Service.

Please note that if any card has no space for further validation, it should be returned with 3 recent passport photographs so that a new one may be prepared.

The above applies also to

FRENCH CARDS

except for the number of photographs (2 instead of 3).

In view of the considerable number of cards to be renewed, it will not be possible to issue attestations to replace them; so please keep photocopies.

If you are in possession of invalid cards, the Organization will not take any responsibility in case of difficulties with the Police or the Customs authorities.

Personnel Division
Tel. 3238-4682

SEMINARS SEMINAIRES

Monday 19 November*

CN SEMINAR

at 10.00 hrs – CN Auditorium
bldg 31/3-005

Institutional File System Overview

by Ted HANSS / University of Michigan

With implementation of the Institutional File System (IFS), high performance, 'user transparent' file services will be provided by IBM 3090 mainframe central file servers to thousands of heterogeneous workstations. The system will combine the advantages of institution-wide information sharing and central operations with the independence and flexibility of personal workstations. The design and implementation, based on Transarc's AFS, will support IBM's MVS/ESA, AIX/370, and VM operating systems on the 3090 server. Workstation clients will initially be supported for AFS, Sun Microsystem's Network File System (NFS), and Apple Computer's AppleTalk Filing Protocol (AFP). An

innovative 'intermediate file server' provides additional performance benefits. The talk will present an overview of the project including architecture, implementation status, and plans for future work. The IFS is a joint effort of the University of Michigan and IBM. Ted Hanss is Project Leader at the Center for Information Technology Integration, University of Michigan.

** Please note unusual day & time*

Monday 19 November

AC SEMINAR

at 11.00 hrs – AT Auditorium
bldg 30, 7th floor

The LEP energy upgrade project

by C. WYSS / CERN-AC

Reaching beam energies beyond the W pair production threshold requires major efforts, not only in the fields of

superconducting RF cavities and cryogenics, but also in many other accelerator disciplines and main services. The various activities and their planned milestones are presented, with the aim of providing a general view on the project goals and present status.

AC SEMINARS : this is to announce a new series of seminars organized jointly by AT, MT and SL Divisions. The series aims at presenting, in a way accessible to a non-specialized audience, ongoing developments and future plans in the field of large accelerators and storage rings. Emphasis will be placed mainly on the technological aspects of the work presented.

These seminars are considered as complementary to the well-established PS seminars.

Seminars will usually take place at 2-week intervals on Monday at 11.00 hrs. They will be held alternatively

in the AT Auditorium, bldg 30, 7th floor

and

in the SL Auditorium on the Prévessin site, bldg 864, 1st floor.

Seminar series organizers : Paul Faugeras / MT, Herbert Lengeler / AT, Walter Scandale / SL

Wednesday 21 November

TECHNICAL PRESENTATION

09.00 to 12.00 hrs – bldg 73, 2-027

High performance E² CMOS PLDs (Programmable Logic Devices)

by Ascom Primotec SA (CH) & Lattice GmbH (D)

Lattice Semiconductor, located in Hillsboro, Oregon, was founded in 1983 to design, develop and manufacture high-performance semiconductor components, the GAL (Generic Array Logic) family devices. GAL devices are manufactured using very high-speed Electrically Erasable CMOS (E² CMOS), which offers the highest degree of testability and quality of any process technology, as well as instant erasability, making GAL devices ideal for prototyping and manufacturing. GAL devices can directly replace PAL devices in nearly every application and have the low power consumption of CMOS. GAL devices utilize Output Logic Macrocells (OLMCs), which allow the user to configure outputs as needed. By melding all these features into a single product line, the GAL family is ideally targeted to replace TTL/74HC random logic, low-density gate arrays, and all other programmable logic.

Language : English

Information : M. Diraison / FI / 4585

Mercredi 21 novembre

PRESENTATION TECHNIQUE

de 09.30 à 16.30 h – Amphithéâtre AT
bât. 30, 7^e étage

Exposition/démonstration de la nouvelle gamme de photocopieurs et télécopieurs CANON par Walter RENTSCH SA (CH), représentant CANON (J/D) Présentation exclusive de la nouvelle génération de copieurs couleurs numériques : le CANON Laser Color 200, le CANON Laser Color 500,

connectable avec PC Macintosh/IBM, dotés d'un zoom bidirectionnel de 50 à 400 %, insertion de photos couleurs dans des textes noir/blanc, déplacements d'images, détournages de zones, conversion de couleurs, posters, etc., ainsi que présentation de la nouvelle gamme de copieurs analogiques. Egalement exposée la nouvelle génération de télécopieurs CANON FAX.

Langues : français, anglais, espagnol

Renseignements : M. Diraison / FI / 4585

Wednesday 21 November

CN TECHNICAL PRESENTATION

10.00 to 11.30 hrs – CN Auditorium
bldg 31/3-005

Digital's UNIXTM strategy

by Skip GARVIN & Niels BOGSTAD

Digital will present their offering in Ultrix-based products. Both existing products and future evolutions will be discussed.

- *Ultrix product presentation; hardware and software (including the new DS 5100, DS 5500)*
- *Digital's direction towards OSF/standards*
- *Real Time Ultrix*
- *Future directions in Ultrix Workstations*
- *Relationship VMS – Ultrix*

Skip Garvin and Niels Bogstad are members of the European Digital Competence Centre for UNIXTM, based in Geneva. Skip is the European Sales Manager for Ultrix, Niels is a Technical Consultant.

Language : English

Organizer : C. Parkman / CN / PMN@CERNVM

Wednesday 21 November

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The solution of the non-Abelian Chern-Simons theory

by E. GUADAGNINI / CERN

The three-dimensional Chern-Simons theory constructed with a non-Abelian gauge group G is considered. The observables of the model are the expectation values of the Wilson line operators. Given a generic orientated link in R³ whose components are characterized by arbitrary representations of G, I show how to compute in closed form the expectation value of the associated Wilson line operator.

Wednesday 21 November*

PPE SEMINAR

at 16.30 hrs – Auditorium

First results from the CLEO II Experiment

by Klaus HONSCHIED / Cornell University

During the last years the CLEO detector at the Cornell e⁺e⁻ storage ring CESR has gone through a major upgrade. The

principal new component is a high resolution CsI calorimeter with fine segmentation (almost 8000 crystals). In the 1990 run a total integrated luminosity of 300 pb^{-1} was recorded at the $\text{upsilon}(3s)$ resonance and near threshold for $B\bar{B}$ production. Using the $\text{upsilon}(3s)$ data we were able to calibrate the detector and some examples of these calibration signals will be presented. The CLEO II detector is now operational and has begun to produce physics results. One of the first is the measurement of the cross section for $e^+e^- \rightarrow B\bar{B}^*$. This analysis and its implications for the feasibility of a symmetric B factory will be discussed in some detail.

* Please note unusual day

Thursday 22 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

Electromagnetic traps for charged and neutral particles

by Wolfgang PAUL / Nobel Laureate 1989,
University of Bonn

* Tea & coffee will be served at 16.00 hrs

Friday 23 November

STING (SOFTWARE TECHNOLOGY INTEREST GROUP) TECHNICAL PRESENTATION

from 10.00 to 12.00 hrs – CN Auditorium
bldg 31/3-005

CASE software from VERILOG SA, Toulouse

by Yves Genevaux and Vincent Encontre /
VERILOG

The current offering of this French company provides solutions for the various phases of software production: specification, design, validation, maintenance etc. This presentation will cover VERILOG's major products: ASA, GEODE and LOGISCOPE. New developments related to the use of the Entity-Relationship model will also be discussed. The tentative program will be :

10.00 – 11.30 Product presentation

11.30 – 12.00 Entity-Relationship model

Demonstrations of these products for smaller groups will be organized in the afternoon.

Friday 23 November

CN TECHNICAL PRESENTATION

10.00 to 12.00 hrs – AT Auditorium*
bldg 30, 7th floor

VXibus from Hewlett Packard

by Kasra NOBAHAR / HP Switzerland

The VMEbus EXTensions for Instrumentation (VXibus) is an instrumentation bus developed by a consortium of manufacturers (including Hewlett Packard) as a follow-on to the IEEE488 (GPIB) standard. It encompasses the VMEbus

specification which provides the means to include digital 'intelligence' into the resulting modular system. Some aspects of the VMEbus specification have been tightened, but the major results for HEP applications are :

- Larger board sizes
- Additional power supplies (ECL, analogue)
- Electro-magnetic screening possibilities
- High speed inter-module communication paths

Mr Nobahar, System Engineer from HP (Switzerland) will briefly introduce VXibus standard, and present the current and future HP products, including development tools and software. The formal presentation will be followed by a demonstration of VXibus equipment.

Language : English

Organizer : C. Parkman / CN / PMN@CERNVM

* Please note the unusual location

Friday 23 November

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Tests of QCD and precise measurements of α_s from deep inelastic scattering

by M. VIRCHAUX / CEN, Saclay

Recent high statistics structure function measurements are compared, with emphasis on light target results (hydrogen and deuterium). The experimental situation is now clearer and the most precise data are in good agreement. Preliminary results from a global QCD analysis of these data show that their Q^2 evolution is very well described by the predictions of perturbative QCD down to Q^2 of order 1 GeV^2 . This analysis yields a measurement of α_s which is the most precise to this day, together with an accurate measurement of higher-twist terms. In addition, these data provide a strong indication that α_s is 'running' as expected. Future developments are sketched.

Friday 23 November

SIMON VAN DER MEER FEEST

at 15.00 hrs – Auditorium

Stochastic cooling from a physicist point of view

by Carlo RUBBIA

The impact of the Van der Meer horn on neutrino physics

by Jack STEINBERGER

The Van der Meer method at the ISR

by Giuseppe COCCONI

Simon's contributions to accelerator physics

by Giorgio BRIANTI

At the end, Simon Van der Meer will offer a drink to all the participants in the Coop Cafeteria

Monday 26 November

CAS ACCELERATOR SEMINAR

THE SIXTH LECTURE IN THE JOHN ADAMS' MEMORIAL LECTURE SERIES

at 14.30 hrs – Council Chamber*

The LEP collider, from design to approval and commissioning

by Stephen MYERS / CERN

A description is given of the design, approval, construction and commissioning of the LEP collider. The contribution of John Adams is highlighted both during his years as CERN's Director-General and later as an active member of the LEP Machine Advisory Committee. The first injection into LEP took place in July 1989 with first collisions for physics about a month later. After one year of operation, the LEP luminosity has reached more than half of the design value and more than 900 000 Z^0 particles have been generated, detected and analysed. The major factors related to each significant improvement in performance are described. The present day limitations to performance are analysed, and the foreseen improvements aimed at raising the performance are discussed. In addition, the time schedule and performance estimates for the planned upgrade in LEP energy to allow study of W pair production are reported.

* Tea & coffee will be served after the lecture (~16.00 hrs) in the Salle des Pas perdus

Monday 26 November

PPE SEMINAR

at 16.30 hrs – Auditorium

A measurement of the polarization of the tau lepton in $Z \rightarrow \tau^+ \tau^-$ decays from ALEPH

by Makoto Takashima / CERN-PPE

Measurements of the longitudinal polarization of tau leptons produced in Z^0 decays have been performed with the ALEPH detector. The polarization has been obtained through the tau decay modes: $\pi \nu$, $\rho \nu$, $A1 \nu$, $\mu \nu \nu$, and electron $\nu \nu$. The mean value of these modes is $P = -0.157 \pm 0.055$. This corresponds to a ratio of the neutral vector and axial vector coupling constants of $g_v^\tau / g_a^\tau = 0.079 \pm 0.028$ and a value of the electroweak mixing parameter $\sin^2 \theta_w = 0.231 \pm 0.007$.

Tuesday 27 November

TECHNICAL PRESENTATION

14.00 to 16.00 hrs – bldg 17/1-007

Scanditronix AB (S), specializing in cyclotrons, microtrons, spectrometers, beam handling equipment, magnets and coils, magnetometers, etc., will demonstrate their latest type of precision magnetometer, NMR 851 PC.

Tuesday 27 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Dark Mass Moments

by Alvaro De Rújula / CERN-TH

Wednesday 28 November

TECHNICAL PRESENTATION

09.00 to 16.30 hrs – bldg 17/1-007

Metrolab Instruments SA (CH) : presentation and demonstration of PDI 5205 Precision Digital Integrator/Fluxmeter; PT 2025 NMR nuclear magnetic resonance magnetometer; RG 2040 NMR closed-loop field regulation.

Thursday 29 & Friday 30 November

PRESENTATION

at 09.00 hrs – AT Auditorium

bldg 30, 7th floor

Presentation of latest products from Daisy/Cadnetix in CAE design for PLDs, ASICs, VHDL/Logic Synthesis, and new layout package Boardmaster.

Thursday 29 November

PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Status of the Large Hadron Collider (LHC)

by Giorgio Brianti / Associate Director for Future Accelerators, CERN

Friday 30 November

CN TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium

bldg 31/3-005

Modelling and simulation with SABER

by Martin VLACH / Analogy Inc.