

ENTRETIENS ANNUELS 1994

L'exercice débutera en janvier 1994, conformément aux procédures et au calendrier décrits dans la Circulaire administrative N° 26. Il se déroulera donc comme en 1993.

L'attention du personnel et des superviseurs est cependant de nouveau attirée sur les modifications suivantes, apportées en 1993 dans les domaines de la **formation** et de l'**hygiène et sécurité** :

- a) L'efficacité de la formation reçue et la fixation des nouveaux objectifs en matière d'enseignement doivent être examinés pendant l'entretien annuel au même titre que les objectifs et résultats professionnels.
- b) Les aspects du travail du membre du personnel touchant à l'hygiène et à la sécurité doivent également être examinés au cours de l'entretien annuel et tous les changements importants être consignés dans le questionnaire relatif aux risques professionnels détenu par le Service médical.

Il est aussi rappelé au personnel et aux superviseurs qu'ils peuvent se reporter au "Guide pour l'entretien annuel et l'évaluation du travail" publié et diffusé en février 1993. Des exemplaires sont disponibles à la Division du Personnel.

Mise à jour du récapitulatif des qualifications personnelles

Au cours de l'entretien annuel 1994, les membres du personnel seront invités à mettre à jour le récapitulatif de leurs qualifications personnelles, c'est-à-dire les renseignements informatisés concernant leur expérience, degré d'éducation, formation et connaissance des langues. Pour la majorité du personnel, les premières informations remontent à 1989 et nombreux sont les nouveaux membres du personnel qui n'ont pas encore rempli de dossier.

Chaque membre du personnel titulaire recevra donc sous peu un état de son dossier ou, le cas échéant, un questionnaire comportant les explications nécessaires. Les formulaires remplis ou mis à jour seront rassemblés dans les divisions puis retournés à la Division du Personnel au plus tard le 31 mars 1994.

Les formulaires ont été légèrement modifiés depuis 1989. Premièrement, ils ont déjà été actualisés grâce aux informations relatives à la participation aux cours d'enseignement du CERN (jusqu'à l'année universitaire 1992/93) tirées de la base de données des Services Educatifs. Deuxièmement, la partie "Informations complémentaires" a été supprimée afin d'éviter un double emploi avec le formulaire d'entretien annuel.

Division du Personnel
Tel. 4493

ANNUAL INTERVIEW EXERCISE 1994

This exercise will start in January 1994, according to the procedures and calendar described in Administrative Circular No. 26. The exercise will therefore take place as in 1993.

The attention of staff and supervisors is, however, again drawn to the modifications made in 1993 concerning aspects of **training** and of **health and safety**, as follows:

- a) The effectiveness of training received and the fixing of new training objectives are to be examined during the annual interview, in the same way as work objectives and results.
- b) Health and safety aspects of the staff member's work are also to be discussed during the Annual Interview, and any important changes are to be recorded on the Occupational Hazards questionnaire held by the Medical Service.

Staff and supervisors are also reminded of the Guide to the Annual Interview and Performance Appraisal which was published and distributed in February 1993. Copies are available from Personnel Division.

Update of Personal Skills Inventory

During the 1994 annual interview exercise, staff will also be invited to update their Personal Skills File - the electronically-stored information on experience, education, training and language proficiency. For most staff, the initial input of this information was in 1989, and many new staff have not yet completed their file.

Staff will therefore shortly receive a print-out of their file, or a questionnaire, where applicable, together with the necessary explanations for updating/input. The completed documents will be collected in the Divisions and returned to Personnel Division not later than 31 March 1994.

The files have been slightly modified since 1989. Firstly, they have already been updated with information on CERN training course attendance (up to the academic year 1992/93), obtained via an Education Services data-base. Secondly, the section "Other Information" is no longer used, in order to avoid duplication with the Annual Interview report form.

Personnel Division
Tel. 4493

SEMINARS SEMINAIRES

Tuesday 18 January

PRESENTATION

Morning session : at 10.00 hrs - subject: FLUX2D

Afternoon session : at 14.30 hrs - subject: FLUX3D

AT Auditorium, bldg 30, 7th floor

Finite element program packages for easy computation of electromagnetic fields

The CEDRAT company at Grenoble, France presents two finite element program packages for the solution of electric, magnetic, and thermal field problems. The morning session is devoted to FLUX2D, the program for two-dimensional cases (nonlinear, time dependent electric and magnetic fields). In the afternoon session the capabilities of FLUX3D, the package for three-dimensional cases will be demonstrated.

Persons who are using the FLUX2D version already installed at CERN are invited to discuss their problems with the representative of CEDRAT.

Wednesday 19 January

PS SEMINAR

at 11.00 hrs – PS Auditorium

The Free Electron Maser : a solution to the production of the CLIC drive beam ?

by Jacques GARDELLE & Jean-Luc RULLIER /
Commissariat à l'Energie Atomique, Le Barp (France)

In the CERN study of future linear colliders (CLIC), the high energy gradient results from the transfer of electromagnetic energy from a drive beam to accelerating cavities. The drive beam is made of trains of intense bunches at a high frequency and its production is a key issue in the whole project. One possible and attractive solution consists of using the mechanism of the free electron laser in the amplification regime where the electron beam interacts with an external wave whose frequency is about equal to the bunching frequency. Experimental results obtained with a system delivering an output power of 50 MW at 35 GHz will be presented and discussed.

Wednesday 19 January

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The quarks inside the nucleon – how do they look?

by Harald FRITZSCH / CERN & Munich

Hadrons are not only composed of quarks and gluons, the elementary fields of QCD. There is growing evidence that a new level of subnuclear structure exists, at which the baryons and mesons consist of three or two constituent quarks, which show a non-trivial structure themselves. Consequences for deep inelastic scattering, hadronic interactions, meson spectroscopy and the spin structure of the nucleon will be discussed.

Thursday 20 January

DETECTOR R & D COMMITTEE

Open session

at 09.00 hrs – Council Chamber

1. RD-5 Status Report: Study of muon triggers and momentum reconstruction in a strong magnetic field for a muon detector at LHC (RWTH Aachen–NIKHEF–H Amsterdam–Boston–BNL–KFKI Budapest–CERN–Firenze–Helsinki–UCLA–Louisiana–CIEMAT & Univ. Autónoma Madrid–ITEP Moskva–Nijmegen & NIKHEF–Padova–Riverside–La Sapienza & Tor Vergata Roma–Stony Brook–Åbo Akademi Turku–HEPHY Vienna–IEP & INS Warsaw–ETH Zurich; DRDC 93-49; E. Radermacher).
2. RD-10 Status Report: A study to improve the radiation hardness of gaseous detectors for use at very high luminosities (CERN–ICEPP Tokyo–Inst. Cantonal d'Ecotoxicologie Geneva–LIP Coimbra; DRDC 93-52; C. Garabatos).
3. RD-19 Status Report: Development of hybrid and monolithic silicon micropattern detectors (CERN–Collège de France–CPPM Marseille–EPF Lausanne–ETH Zurich–IMEC Leuven–Bari–Genova–Milano–Modena–Padova–Pisa–Roma–Trieste–GHS Wuppertal–Tech. Univ. Athens–Group Praha–Glasgow–Canberra Semiconductor NV–GEC Marconi–Smart Silicon Systems SA; DRDC 93-54; E.H.M. Heijne).

4. RD-21 Status Report: Development of a heavy flavor topology trigger for the collider B experiment, COBEX (UCLA–Lausanne–Massachusetts–MPI Heidelberg–IHEP Serpukhov; DRDC 93-57; J.G. Zweizig).
5. RD-30 Status Report: Study of an optical trigger to be used for beauty search in fixed target mode at the LHC (CERN–Lausanne–DAPNIA C.E. Saclay–Northern Illinois–Iowa–UCLA–Fermilab–Politechnica Bucarest; DRDC 93-56; J.-P. Perroud).
6. RD-31 Status Report: NEBULAS - A high performance data-driven event building architecture based on an asynchronous self-routing packet-switching network (CERN–Royal Inst. of Tech. Stockholm–Inst. of Radiation Sciences Uppsala–Alcatel Bell Telephone Antwerp–Hewlett Packard; DRDC 93-55; M. Letheren).
7. Proposal: CICERO: Control Information system Concepts based on Encapsulated Real-time Objects (CERN–CIEMAT Madrid–Inst. of Physics of the Academy of Sciences Prague–IVO International Helsinki–KFKI Budapest–SEFT Helsinki–SPACEBEL Brussels–USDAT Brussels–VALMET Automation Tampere–VTT Oulu; DRDC 93-50/P52; M. Le Goff).
8. Proposal: Superconducting strip detectors (CERN–HUT Low Temperature Lab. Otaniemi–VTT Otaniemi; DRDC 93-53/P53; T. Niinikoski).
9. Proposal: Development of quartz fiber calorimetry (CERN/LAA–CERN–Cornell–Bologna–Frascati–Pavia–Pisa–Torino–Florida State Tallahassee–ITEP Moscow–CRN Strasbourg–PHASE Strasbourg; DRDC 94-4/P54; P. Gorodetzky).

Closed session

following the Open Session continuing on Friday 21 January at 09.00 hrs, 6th floor Conference Room

Friday 21 January

SEMINAR ON HEAVY QUARK PHYSICS WITH LEP

at 10.00 hrs – TH Conference Room

Status, prospects & physics implications of lifetime measurements of beauty hadrons

This is the first in a series of six seminars on heavy quark physics prepared jointly by theorists and experimentalists from all four LEP experiments. The results obtained so far at LEP on the measurement of the lifetimes of inclusive and exclusive beauty decays are summarized. The prospects of improving these measurements at LEP are discussed. A theoretical evaluation of the results will be presented and important future measurements will be addressed.

Friday 21 January

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Fracture functions: an improved description of inclusive hard processes in QCD

by Gabriele VENEZIANO / CERN

We propose to describe semi-inclusive hard processes in perturbative QCD by means of "fracture" functions, hybrids between structure and fragmentation functions. We argue that fracture functions factorize correctly and evolve in Q^2 in a predictable way. As an application, we discuss how information on fracture functions obtained at HERA can be used to compute inclusive processes at future hadron colliders.

Friday 21 January

PRESENTATION

at 14.00 hrs – CN Auditorium
bld. 31/3-005

CXSOFT LSF (Load Sharing Facility)

by Jean SUPPLICK / Principal, CXSOFT, Convex Computer Corporation

CXSOFT is a business of Convex Computer Corporation, dedicated to providing high performance software solutions for scientists and engineers on RISC workstations. CXSOFT was formed to market and sell supercomputer software to the workstation marketplace where compute intensive environments are sophisticated and diverse. I will provide an overview of the features of LSF (Load Sharing Facility) which was developed by Platform Computing Corp. of Toronto, Canada and is available from CXSOFT on the HP, SUN, SGI, DEC, and IBM RISC architecture's. LSF provides the technology required for monitoring load and efficiently initiating tasks on remote hosts. Built upon this underlying technology are practical applications of the load-sharing technology in the form of a fully functional, distributed batch queuing system (lsbatch) and a transparent load-sharing interactive environment. Most important, LSF is extensible. By using the application program interface (API), users can easily enhance existing applications or create new, customised applications so that they become "load-aware".

Monday 24 January

DETECTOR SEMINAR

at 11.00 hrs – ECP Conference Room
bld. 13/2-005

The ZEUS Leading Proton Spectrometer

by Christian NEMOZ / CERN-PPE

The LPS (Leading Proton Spectrometer) measures the momentum of forward particles (predominantly protons) in collider physics, so that in lowest order QCD, it tags the momentum of the interacting parton. One of the LAA projects was the conception of such a prototype spectrometer as a testing ground for developing radiation hard front end electronics and apparatus, and handling high rates of data flow for future accelerators. The full spectrometer, constructed in collaboration with other institutes, has been installed at ZEUS in Hamburg; it has starting operation and is producing results. The talk describes the apparatus with emphasis on features useful for LHC experiments, experiences in commissioning and first results.

Tuesday 25 January

SPS & LEAR EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

1. Laser spectroscopy of metastable antiprotonic helium atomcules (SPSLC 94-4/M530, SPSLC 945/M531, SPSLC 94-6/M532) : T. Yamazaki.
2. Status report on CERES / NA45 (SPSLC 94-1/P280): I. Tserruya.
3. Study of electron pair and photon production in Pb-Pb collisions at the CERN SPS (SPSLC 94-2/ M529) : I. Tserruya.
4. Recent tests for experiment NA50 : L. Kluberg.

Closed session

at 14.00 hrs, Administration Building, 6th floor
Conference Room

Thursday 27 January

PRESENTATION

at 09.30 hrs – Auditorium

Recent developments in arc welding technology using modern industrial electronics

Tendances des développements dans la technique de soudage à l'arc grâce aux possibilités de l'électronique industrielle moderne

by Peter PUSCHNER / ELMA-Technik

Languages : English & French

Renseignements : F. Bertinelli / MT-MF / 5098

Jeudi 27 janvier

PRESENTATION TECHNIQUE

de 09.30 à 17.30 h – bât. 73/2-027

CRIS Industries SA (F) propose, en démonstration, un ensemble de mise en baie comprenant:

- un PC industriel AT 8 Slots, hauteur 4U, équipé d'une carte CPU 486 SX, d'un lecteur de disquette 3" 1/2 et d'un disque dur débouchable
- un bac clavier hauteur 1U avec clavier 102 touches AZERTY
- un moniteur SVGA hauteur 8U avec écran de 14" et filtre optique

Tous ces éléments répondent aux normes 19" et de protection EMI/RFI.

Langues : anglais, français

Renseignements : M. Diraison / FI-A / 4585

Jeudi 27 janvier

SEMINAIRE DE BASE MT

Composants et fonctions principales des accélérateurs

à 09.00 h – Amphithéâtre AT
bât. 30, 7^e étage

Types d'aimants

par K. HENRICHSEN / CERN-AT

Thursday 27 January

PRESENTATION

at 10.30 hrs – CN Auditorium
bld. 31/3-005

High density printed circuit technology

by J.P. LUCAS / CIMULEC & J. CANDELIER / BSO, France

The CIMULEC company specialises in state of the art printed circuits :

- Multilayer PCB's
- Impedance control PCB's
- Flexible or rigid PCB's
- SMD with/without metal core PCB's
- Microwave PCB's

Of particular interest is a PCB technique that achieves multi-chip-module (MCM) packing densities.

The presentation will cover both the technology and the software support tools currently available.

M. Lucas

- Technology presentation
- Design Rules

M. Candelier

- Software design tools for MCM modules
- Estimation of electrical characteristics
- High Density routing techniques
- Extraction of electrical characteristics

There will be a workstation demonstration of the tools.

Languages : English & French.

Information: Brian Martin/ECP-RA/4915/bmartin@cernvm

Thursday 27 January

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Neutrino astronomy with deep underwater telescopes

by Christian SPIERING / DESY / IFH Zeuthen

Vendredi 28 janvier

PRESENTATION TECHNIQUE

de 14.00 à 17.00 h – bât. 31/3-005

NSI / Annecy (F) propose un séminaire réseaux locaux de terrain: multiplexage et contrôle réparti grâce aux solutions VAN (Vehicles Area Network) et LON (Local Area Network) de Echelon (USA).

Langues : anglais, français

Renseignements : M. Diraison / FI-A / 4585

EDUCATION SERVICES EDUCATIFS

ACADEMIC TRAINING

Tel. 3127

LECTURE SERIES

17 & 19 January

11.00 to 12.00 hrs – Auditorium

**Introduction to Supersymmetry
for Particle Physics**

by S. FERRARA / CERN-TH

Lectures 4 & 5

INFORMATIONS GENERALES GENERAL INFORMATION

ELECTRONICS POOL USER FORUM

In the context of the regular "Liaison" meetings, the first "Electronics Pool Users Forum" will be held on Thursday 20 January at 14.00 hrs in building 14/4-030. The object of these

POUR / FOR INFORMATION

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24, quai Ernest-Ansermet
1211 Genève 4
Tel. 022 702 6273
Fax 022 781 2192

Mercredi 26 janvier

SEMINAIRE DE PHYSIQUE CORPUSCULAIRE

à 17.00 h – Auditoire Stückelberg

Status of lattice QCD

by Federico RAPUANO / CERN, on leave from
Università di Roma "La Sapienza"

A short review of Quantum Chromodynamics on the lattice is given. I will also report on the main results obtained by the various groups active in the field.

24, 26 & 28 January

11.00 to 12.00 hrs – Auditorium

CP Violation in the Standard Model

by B. GAVELA / CERN-TH

A basic introduction to CP-violation will be developed, with emphasis on the three-generation Standard Model predictions for Kaon physics, electric dipole moments and B physics will be discussed in detail.

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 20 janvier

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

discussions is to provide a regular, interactive and informal means of communication between the management and staff of the Electronics Pool and its users. The first meeting will be devoted to an overview of the Pool's organization (technical and financial) and its structure within the ECP Division Electronics Systems Support Group (ESS).

All those interested are cordially invited to come and to raise any relevant topics for discussion. The Fora will normally last only one hour, and will be held every third Thursday in the month.

For more information, contact Lennart Jirdén / 5125 / jirden@cernvm.cern.ch