

MANAGEMENT BOARD OF THE STAFF INSURANCE SCHEME

On 9 November 1983, at its 194th meeting, the Management Board of the Staff Insurance Scheme first heard an oral report by its Vice-Chairman on the previous week's Finance Committee discussions concerning the Scheme. It then looked at a set of documents arising from these discussions including, in particular, draft terms of reference for a tripartite working group on pensions which may be set up. The Board discussed the work to be done in preparation for creating such a group.

At the invitation of the SSIRAB (the Social Security, Integration and Re-integration Advisory Board), the Management Board gave its opinion on the SSIRAB's

proposals set out in its report on health insurance for the Scheme's beneficiaries.

In order to maintain the true value of the invested capital, the Board instructed the Administration to re-adjust the rents charged for the commercial and residential buildings owned by the Scheme at the appropriate time and as permitted by the law and practices of the countries concerned.

The Board then heard a report by the Administrator on the work of the Real-Estate Commission and on proposals under investigation for possible purchase.

Finally, the Board drew up its timetable of meetings for 1984, in which some ten ordinary meetings are scheduled.

SEMINARS SEMINAIRES

Monday 28 November

EF SEMINAR

at 11.00 hrs – EF Conf. room (bldg. 13, 2-005)

**The liquid ionization chamber using
Tetramethylsilane (TMS)**

by J. ENGLER / Karlsruhe

First results with a liquid ionization chamber using Tetramethylsilane (TMS) are presented: a tower of iron plates was tested with cosmic ray muons and the minimal ionizing peak observed. The principle of charge collection in liquid ionization chambers and the problem of purification will be described. As an outline, a possible application in calorimetry and particle tracking will be discussed.

Monday 28 November

EP SEMINAR

at 17.00 hrs – Auditorium

**New developments in the
Lund jet fragmentation model**

by Torbjörn SJÖSTRAND / DESY

The Lund model provides a phenomenological description for the fragmentation of an initial parton configuration into final state hadrons. In its Monte Carlo implementation it has become widely used in high energy physics. Here the basic ideas will be reviewed, and recent advances discussed, in particular the fragmentation of heavy quarks and of almost collinear partons. Experimental applications will be illustrated mainly by recent e^+e^- results.

Mardi 29 novembre

PRESENTATION TECHNIQUE

de 09.30 h à 16.00 h – bât. 73, salle 2-027

RÜEGER SA, Gebr. Thurnherr AG, Siegrist Photometer AG, Novosima AG, Trapag AG, Zivy & Co. AG et Revue Thommen AG du GROUPE DE TRAVAIL 38 de

la Communauté de coopération SWISSEXPORT proposent une exposition de leurs produits (Technique de mesure, de régulation et des procédés): thermomètres à réaction rapide pour le contrôle dans le laboratoire et l'industrie – instruments de mesure de l'humidité, de la pression – photomètre – Thermostats, pressostats, transmetteurs, régulateurs – compteurs, tachymètres, tensiomètres, appareils de mesure électronique de longueurs et de translations.

Langues: français (allemand et anglais possibles)

Renseignements: M. Diraison / FI / 4585

Tuesday 29 November

LEP MACHINE ADVISORY COMMITTEE

Due to unforeseen circumstances this meeting has been postponed

Tuesday 29 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

**New results on charmed meson production
at high energy from e^+e^- annihilation
in the TASSO detector**

by U. KARSHON / Weizmann Institute,
Rehovoth, Israel

Inclusive $D^{\pm}$ and $F^\pm$ particle production has been measured at high CMS energies ($\sqrt{s} = 34.5$ GeV) in e^+e^- annihilations in the TASSO detector at PETRA. The decay modes studied are $D^{*\pm} \rightarrow D^0\pi^\pm$ and $F^\pm \rightarrow \phi^0\pi^\pm$. The energy spectrum of the charmed mesons indicates that they may originate from a primary charm quark. Using the D^* s to tag the processes $e^+e^- \rightarrow$ charmed particle pairs, the fragmentation of charmed jets has been studied from the charged particles produced in the hemisphere opposite to the D^* . First rank and higher rank fragmentation are studied separately from the D^* and from the spectra of the other particles produced in the D^* hemisphere.*

* Tea and coffee will be provided at 16.00 hrs.

LATE NEWS (Germany at CERN)

(See page 9.)

Wednesday 30 November

TECHNICAL PRESENTATION

09.00 - 10.30 hrs – Auditorium

EHLERSKABEL will give a talk on Pyro-elodur safety cables.

Language : English

TECHNICAL PRESENTATION

09.00 - 09.30 hrs – TH conf. room (bldg. 4, 3rd fl.)

CARL ZEISS will give a talk on precision-engineering and optical parts, instruments and systems for large-scale project research.

Language : English

TECHNICAL PRESENTATION

at 10.00 hrs – TH conf. room (bldg. 4, 3rd fl.)

FRIED. KRUPP GmbH will give two talks :

1. *Koermax : samarium – cobalt permanent magnets of highest quality and stability.*

Language : English (20 min.)

2. *Improved methods of measurement of dynamics and quasi-static hysteresis loops.*

Language : German (20 min.)

Information : M. Diraison / FI / 4585

Wednesday 30 November

SPECIAL EP SEMINAR

at 09.30 hrs – DD Auditorium (bldg. 31, 3rd fl.)

Event generators for LEP

by T. SJÖSTRAND / DESY
G. INGELMAN / CERN
R. KLEISS / Leiden

The latest version of the Lund Monte Carlo program will be described. Simulation of deep inelastic scattering and high $P_{\perp}$ scattering will only be briefly discussed here, thus concentrating on e^+e^- annihilation at LEP energies. Emphasis will be placed on new features, programming aspects, flexibility for special processes (e.g. Higgs production). The feedback of the user community will be solicited. A set of radiative correction routines for several LEP physics processes will be introduced. The programs will be installed on the CERN computers. Documentation will be provided. Sjöstrand and Kleiss will be at CERN for the week 28 Nov. – 2 Dec. as guests of EP Division and will be available for discussion/consultation.

Wednesday 30 November

DD SEMINAR

PLEASE NOTE CHANGE OF TIME
at 14.00 hrs – DD Amphitheatre
(bldg. 31, 3rd fl.)

CENTERNET – The Danish ISO/OSI Data Network for Universities

by J.A. RICHTER / CENTERNET, DK

After an interim operational period of 16 months, the CENTERNET was in full scale service by September of this year. CENTERNET is implemented in close cooperation with the Danish Teleadministrations. It is based on the latest standards and current thinking of the ISO/OSI/RM. Host machines today are : Cybers, Univacs, IBMs and RC computers. The presentation will focus on Cyber 825 and IBM 3081 host connections.

Wednesday 30 November

THEORETICAL SEMINAR

at 14.00 hrs – TH Conf. Room

Introduction to superstrings

by J. SCHWARZ / CALTECH

Thursday 1 December

PRESENTATION

at 14.00 hrs – DD Amphitheatre
(bldg. 31, 3rd fl.)

The SAGE Super Micro-Computer IDRIS' Unix like Operating System ABSOFIT'S FORTRAN 77

by Steven SUCKOW / Manager, Edusoft SA

The SAGE is a no nonsense, NO WAIT STATES, single board, 68000 based Super Micro-computer designed to be a high performance, low cost, reliable, computation intensive workhorse. IDRIS' Unix like Operating System was written by Dr. P.L. Plauser. It is one half the size of a full Unix, runs up to twice as fast on micros, yet contains all the important and powerful functionality of Unix. ABSOFIT'S implementation of FORTRAN 77 has been accepted by FERMILAB for use of micros. This is a full implementation of FORTRAN 77 with symbolic debugger. The SAGE hardware, which includes RAM memory up to 1 Megabyte, 640K Floppy Drives and Winchester Hard Disks of up to 40 Megabytes, will be described as well as the existing expansions in back-up media, colour graphics, local area networking and data acquisition. The presentation will be followed by hands-on demonstration of the SAGE and its capabilities.

Friday 2 December

PLENARY ECFA MEETING

at 09.30 hrs – Council Chamber

1. Approval of the Draft Minutes of the Thirty-third Plenary ECFA Meeting
Document ECFA/83/73/Draft
2. Approval of the draft agenda
Document ECFA/83/81

3. Chairman's report
4. Progress on LEP
(E. PICASSO)
5. Improvements to the
SPS proton-antiproton collider
(S. VAN DER MEER and G. BRIANTI)
6. The CERN programme and budget
(H. SCHOPPER)
LUNCH
7. HERA report
(V. SOERGER)
8. Hadron collider in the LEP tunnel and Proposal for
an ECFA CERN workshop in March 1984
(C. RUBBIA and J. MULVEY)
9. Proposal for a workshop on new techniques for particle
acceleration
(J. MULVEY)
10. Election of Chairman
11. Dates of ECFA Meetings - 1984
12. Other business

Monday 5 December

PRESENTATION

at 10.00 hrs – DD Amphitheatre
(bldg. 31, 3rd fl.)

The IDEA computer-aided engineering workstation

by Werner SOBOLA / Mentor Graphics
GmbH, Eching, Germany

The IDEA computer-aided engineering workstation integrates a wide range of electronic design aids and project management tools into a powerful user-friendly system. Based on the Apollo personal workstation and AEGIS operating system with DOMAIN networking, it offers interactive colour graphics with multiple graphics windows for concurrent design tasks and increased design productivity. A relational design database and database management software unify all design tools and ensure design integrity. After the presentation and again from 14.00 hrs, the system will be demonstrated in building 31, room R-045.

Monday 5 December

EP SEMINAR

at 17.00 hrs – Auditorium

Recent results from the CLEO experiment at Cornell

by J. CHAUVEAU / Palaiseau, Ecole polytech.
and R. WILCKE / CERN-EP

Recent results from e^+e^- collisions in the energy range of the upsilon resonances, obtained by the general purpose magnetic detector at CESR will be presented. Three main topics will be discussed: 1) spectroscopy of the narrow resonances (radiative transitions, leptonic branching ratios, etc.); 2) inclusive production of charmed particles on the continuum, and; 3) weak decays of the b quark. In this last part, the emphasis will be put on non-leptonic decays from which the B mass has

been precisely reconstructed and the semi-leptonic decays from which the parameters of the standard KM model can be severely constrained.

Tuesday 6 December

SPS EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

1. *Status Report on WA77 (Search for Direct Production of Gluonium States in High p_t π^-N Collisions at 350 GeV/c; R. Zitoun).*
2. *Status Report on NA9 (Study of Final States in Deep Inelastic Muon Scattering); Status Report and Addendum for NA28 (Study of Shadowing and Hadron Production in High Energy Muon Scattering Using Nuclear Targets; SPSC 83-75/P 176 Add.1; T. Sloan).*
3. *Status Report on NA23 (Study of Diffractive Dissociation Especially into Strange and Charmed Particles with the EHS) and NA27 (Measurement of Lifetime of D^0 , $D^\pm$, $F^\pm$ and Λ_c and Study of their Hadronic Production and Decay Properties; L. Montanet).*
4. *Status Report on NA24 (Investigation of Deep Inelastic Scattering Processes Involving Large p_t Direct Photons in the Final State; K.P. Pretzl).*
5. *Status Report on NA32 (Investigation of Charm Production in Hadronic Interactions Using High-Resolution Silicon Detectors; R. Klanner).*

Closed session

at 14.00 hrs – Conf. room 6th fl., Administration
Building (to be continued on Wednesday 7
December, at 09.00 hrs).

Tuesday 6 December

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

New images of nuclear architecture

by Bernard FROIS / CEN, Saclay

Wednesday 7 December

PS SEMINAR

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

The 2 GeV Synchrotron Radiation Source (SRS) at Daresbury

by V. SULLER / Daresbury

Thursday 8 December

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Analysis of data from the IMB nucleon decay experiment

by G.W. FOSTER / University of Michigan,
Ann Arbor

Friday 9 December

PRESENTATION

at 10.30 hrs – DD Amphitheatre
(bldg. 31, 3rd fl.)

**DATA SUD Systèmes – VMEbus products
and plans**

by Daniel CIVERA / DATA Sud,
Montpellier, France

POUR INFORMATION / FOR INFORMATION

Vendredi 2 décembre

SEMINAIRE DU LAPP

Laboratoire d'Annecy-le-Vieux de
Physique des particules, Chemin de Bellevue,
B.P. 909, 74000 Annecy-le-Vieux CEDEX, France

à 10.30 h – Amphithéâtre du Laboratoire
**Propriétés des désintégrations de l'hypéron Ω^-
mesurées dans un échantillon de 16 000 Ω^-
recueilli au faisceau hypéron du CERN**

par R. STRUB / Centre de Recherches
nucléaires de Stasbourg

**TRAINING AND
EDUCATION
ENSEIGNEMENT**

ACADEMIC TRAINING

Tel. 2844

29 and 30 November

1 and 2 December

at 11.00 hrs – Auditorium

**Introduction to transfer lines and
circular machines**

by Ph. BRYANT / CERN

Lectures 1 to 4

7, 8 and 9 December

at 11.00 hrs – Auditorium

The experimental approach to W and Z physics

by P. DARRIULAT / CERN

*After a brief introduction to W and Z physics and to the
experimental approach at the SPS proton-antiproton
Collider, the results of UA1 and UA2 will be discussed
in detail. Comments on future measurements will be
given.*

ENSEIGNEMENT GÉNÉRAL

Tél. 2844

Jeudi 1 décembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ENSEIGNEMENT ACADEMIQUE

Atelier du Professeur M. KUNT/EPFL

sur le traitement numérique des signaux

SEANCE D'INFORMATION

Deux groupes de 11 personnes ont suivi à l'EPFL
en mars 1983 un atelier de traitement numérique des
signaux. Suite au succès rencontré par cette expérience, il
a été décidé d'organiser un nouvel atelier en mars 1984.

Les personnes désireuses de s'informer sur les
buts et méthodes de ce cours sont invitées à une séance
d'information avec le professeur KUNT

Lundi 28 novembre à 10.30 h

salle 11, bâtiment 593 (face au bâtiment 54)

L'atelier utilisera une version améliorée et enrichie
des programmes d'enseignement assisté par ordinateur
employés en mars 1983.

Un dialogue constant avec l'exécution des program-
mes permet de choisir un traitement particulier dans des
menus variés, de modifier des paramètres, d'étudier et de
visualiser leurs effets. Les programmes sont interactifs
et modulaires, et comprennent six chapitres :

1. Génération de signaux
2. Transformations unitaires rapides
3. Produits de convolution
4. Estimation de fonctions de corrélation
5. Analyse spectrale
6. Elaboration de filtres et filtrage.

J. Huguenin
Tél. 3364

