

L'après-midi, possibilité de discussion plus ponctuelles entre les différents groupes de développement au CERN et les représentants de Apple.

Renseignements : F. SALDANA / Tél. 6256,
bip 13-7030

Jeudi 22 mai

PRESENTATION TECHNIQUE

de 10.00 à 12.00 h et de 14.00 à 16.00 h
bât. 17, 1-007

3 M (Suisse) SA propose en démonstration ses nouveautés en bureautique :

Reprographie-télécopie : 3M 6040 ADF, copieur haute productivité avec recto-verso automatique (J), 3M 537, copieur couleur (J), 3M EMT 9140, télécopieur GR III (F), 3M EMT 9175, télécopieur GR III(J).

Microfilm : 3M 630, lecteur-reproducteur sur papier normal de dessins techniques à partir de microfilm (USA).

Audio-visuel : 3M ETM 7500, imprimante graphique sur transparents (USA), 3M 7403, titreuse à mémoire (D).

Supports de données : 3M disquettes, datacartridge (I).

Langues : anglais, français

Renseignements : M. Diraison / FI /4585

Monday 26 May

EF SEMINAR

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

Electronic CAD in the research divisions

by B. HECK / CERN

Electronic systems and circuits are becoming more and more complex, and good tools are needed. For several years industry has been offering Computer Aided Design (CAD) systems which help to make the design and construction easier, cheaper and more efficient. The situation of development groups in research divisions with respect to CAD will be described, including what has already been achieved and what the goals are for the near future. The main emphasis will be given to a system for developing printed circuit boards for Fastbus.

Monday 26 May

EP SEMINAR

at 16.30 hrs – Auditorium

Direct photon production at the CERN proton-antiproton collider

by P. HANSEN / Niels Bohr Institute, Copenhagen

Using the UA2 detector we have measured the inclusive cross-section for production of large transverse momentum direct photons in proton-antiproton collisions at $\sqrt{S} = 546$ GeV and 630 GeV. The results are in good agreement with QCD predictions.

Tuesday 27 May

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Analysis of gluon scattering and gluon fragmentation in high transverse momentum interactions at the ISR

by T. LOHSE / CERN

Gluon scattering processes are studied in hadronic high transverse momentum events using data obtained with the Split-Field Magnet detector at the CERN ISR. The experimental setup allowed to scan a wide range of proton energies and scattering angles. It is shown that by selecting positive pions as trigger particles, the parton composition of the recoil jet can be effectively controlled by variations of trigger angle and transverse momentum. Over the kinematical region studied, the recoil jet originates predominantly from scattered gluons. The dynamics of the scattering processes as well as gluon fragmentation properties will be discussed.

* Tea and coffee will be provided at 16.00 hrs.

Thursday 29 May

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

The Giotto Mission and Halley's Comet

by Reimar LÜST / European Space Agency, Paris

Throughout history, comets have been puzzling mankind and creating fear in the hearts of those who see them. In 1705, the English astronomer, Edmund Halley, was the first to predict the return for the year 1758 of a comet which since then bears his name. Space techniques, such as the creation of artificial comets, have enabled Man in recent decades to learn more about comets and the processes occurring in their vicinity. Even more exciting is to go directly to a comet and to study it and its surroundings at close quarters. ESA's Giotto space probe, launched last July by Ariane, successfully passed Comet Halley's nucleus within 540 km on 14 March 1986 after an eight-month voyage through space, and provided scientists with a host of new data which are still under evaluation.

* Tea and coffee will be provided at 16.00 hrs.

TRAINING AND

EDUCATION

ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 22 mai

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tel. 2844-3364

Friday 23 May

at 16.00 hrs - Auditorium

Monday 26 May

at 14.00 hrs - Auditorium

PLEASE NOTE UNUSUAL TIMES

Quantum mechanics and this specific universe

by M. GELL-MANN / Caltech

26, 27, 28, 29 and 30 May

11.00 to 12.00 h - Auditorium

Standard electroweak interactions

by P. ZERWAS / RWTH, Aachen & CERN

The following points will be discussed :

1. Gauge Theories, spontaneous symmetry breaking, Higgs phenomenon : the Glashow-Salam-Weinberg model;
2. Tests of the electroweak standard model in neutral current processes and the electroweak mixing angle;
3. Properties of the gauge bosons : masses, decays and self-couplings; higher order corrections;
4. The Higgs particle : properties and production mechanisms of the standard Higgs particle; aspects of a strongly interacting Higgs-gauge boson sector;
5. Fermions: lepton and quark masses, mixing, CP violation, the top quark.

In addition to the predictions of the standard model, implications of alternative theories and extensions of the standard model (e.g. left-right symmetry, SUSY, GUTS, composite models) will be described.

CERN ACCELERATOR SCHOOL

The Institute of Physics, University of Aarhus, with the support of

The University of Aarhus
The Danish CERN Committee
The Danish Ministry of Education
will jointly organize a basic course on

General Accelerator Physics

15-26 SEPTEMBER 1986

at the Scanticon Conference Centre, Aarhus, Denmark

Lectures:

Historical Introduction and Present-Day Accelerators
Emittance and Liouville's Theorem
Basic Course on Accelerator Optics
Transverse Beam Dynamics
Longitudinal Beam Dynamics
Insertions
Dynamics in Linear Structures
Introduction to Coherent Instabilities
Synchrotron Radiation
Injection and Extraction
Radiation Damping
Space-Charge Dominated Beam Transport
Image and Space-Charge Forces
Neutralization Problems
Diagnostics
Beam Transfer Lines
Luminosity Measurement and Calculation

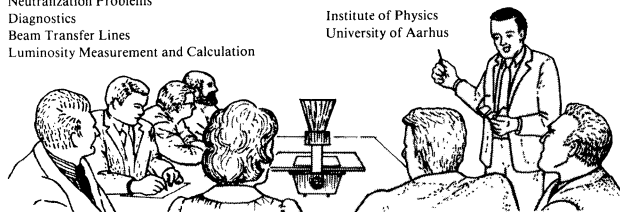
Introduction to Intra-Beam Scattering
Cooling Concepts
Review of Advanced Topics for Next Course

Seminars:

Particle Production
RF Systems
RFQ
Computer Programs for Accelerators
Modern Trends in Cyclotrons
Future Accelerators
Inertial Fusion with Accelerators

Visit:

Institute of Physics
University of Aarhus



Further details and application forms can be obtained from the CERN Accelerator School, c/o Mrs. S. von Wartburg, LEP Division, CERN, 1211 Geneva 23, Tel. (022) 83.26.23.

INFORMATICS TUTORIAL 1986-2

10 to 12 June

from 09.00 to 12.00 hrs and 14.00 to 17.00 hrs

C for programmers

by Dietrich WIEGANDT

CERN, Data Handling division

Presentation

Until a few years ago, the programming language C was known to a limited group of people – the UNIX wizards – because UNIX is written in C. With the increasing popularity of UNIX, C is receiving more attention as a general purpose programming language. C compilers and the associated runtime libraries are available for a wide spectrum of machines, ranging from microprocessors to IBM and CDC main frames.

This tutorial attempts to present the language systematically, yet informally. Participants are expected to have some experience in high level language programming.

Topics

1. basic element of the language
2. structured data types, pointers and functions
3. the C programming environment

Course profile

Lectures will be given in the morning sessions, and the afternoons will be devoted to hands-on-experience. A basic knowledge of UNIX and of one of its editors is recommended.

Material

Participants will receive a copy of 'A book on C' by A. Kelley and I. Pohl, copies of the transparencies used for the lectures, and material for the exercises.

Registration

The attendance will be limited by the number of available terminal lines. For more information and to register, please call Mrs. Monique ANTAL / DD Division, tel. 2396.

About the lecturer

Dietrich WIEGANDT is a Senior system programmer in the Software group, Data Handling division. Physicist by education, he had already converted to Informatics before coming to CERN in 1970. He worked on systems programming and networking in the OMEGA project, implemented CERNET on the IBM main frames, and since 1982 has been concerned with applications of UNIX systems at CERN.

INFORMATIONS

GENERALES

GENERAL INFORMATION

REMINDER

TO ALL MEMBERS OF THE PERSONNEL
Temporary employment

During the period mid-June to mid-September, there will be a limited number of vacancies for temporary employment at CERN (normally unskilled work of a routine nature) which will be made available to children of members of the personnel (that is, anyone with a contract with CERN). It should be noted that candidates