

preparations for the Ceremony and will continue to be so during the forthcoming weeks and the weekend preceeding the Ceremony. I am sure that together we will succeed in showing CERN at its best.

Robert Klapisch
Chairman of the Organizing Committee

ensemble nous réussirons à montrer le CERN dans tout son éclat.

Robert Klapisch
Président du Comité d'organisation

SEMINARS SEMINAIRES

Tuesday 14 November

TECHNICAL PRESENTATION

09.00 to 17.00 hrs – bldg 6, 2-004

LeCroy Corporation of New York + Geneva – Exhibition of new products from their range of fast data acquisition instruments and digital oscilloscopes. FASTBUS equipment includes the 1872, 25 pA high resolution TDC, and a new 1 ns fast encoding TDC, model 1871. The VME instrument range offers an 8 input, 12 bit charge ADC, a 25 ps, 12 bit TDC and a 16 input, Multihit TDC for TPC readout. A VME bidirectional interface will be shown driving a new CAMAC crate controller or FASTBUS segment manager, using PC software. MICROCIRCUIT COMPONENTS include low noise preamplifiers for silicon strip and wire calorimeter readout. Two new DIGITAL OSCILLOSCOPES with Smart triggering and long memories, have high sampling rate to 1 GS/s and familiar, friendly software. Representatives from various product divisions will be on hand to discuss applications, measurement and data handling problems and systems or trigger set-ups.

Languages : English, French, German & Italian
Information : M. Diraison / FI / 4585

Mardi 14 novembre

PRESENTATION TECHNIQUE

de 10 à 12.00 h & de 14.00 à 16.00 h
bât. 73, 2-027

ICARE SA (F), spécialiste de la détection des gaz en air ambiant, de l'analyse et de l'ingénierie sécurité présente ses produits : capteurs explosimètre, catharomètre, toximètre, oxygène, etc. – détecteurs de trace, incendie, de flamme UV – analyseurs infra-rouge – armoire d'analyse – centrale d'acquisition et traitement de données multidirectionnelles.

Langues : anglais, français
Renseignements : M. Diraison / FI / 4585

Tuesday 14 November

OPEN MEETING FOR MICROPROCESSOR USERS

at 14.00 hrs – DD Auditorium
bldg 31, 3-005

The User Group on Microprocessor Support (UGMS) and the PRIAM project have arranged a joint information meeting open to all Microprocessor Users.

- Introduction
- Requirements of the microprocessor user community
- PRIAM services to the user community
- General discussion
- Conclusions

Information : P. Ponting / EP or C. Eck / DD.

A leaflet describing PRIAM activities can be obtained prior to the meeting on request to C. Eck.

Tuesday 14 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

The search for cosmic axions

by A. MELISSINOS / University of Rochester & CERN

Very light mass axions are the preferred candidate for providing the dark matter of the Universe. We have searched for cosmic axions in the mass range $0.45 \times 10^{-5} < m_a < 1.65 \times 10^{-5}$ eV by their conversion to microwaves in a strong magnetic field. An experiment to directly produce axions by directing a laser through a transverse magnetic field will also be discussed.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 15 November

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference room

Chiral Lagrangians and chiral perturbation theory : can we derive them from QCD?

by D. ESPRIU / CERN

I will try to show that the answer to the above question is a qualified yes. Using a low energy regulator we will be able to bosonize the QCD effective action in term of chiral fields. In 4-D this bosonization procedure is, of course, approximate. However, we will be able to compute the (phenomenologically important) $O(p^4)$ coefficients, including leading gluonic corrections. As a by-product we will propose a new set of chiral power counting rules appropriate for chiral perturbation theory.

Wednesday 15 November

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3-005

MATHEMATICA, the standard program for symbolic computation?

by Bruno AUTIN / CERN-PS

Mathematica by S. Wolfram is an encyclopaedia of mathematics written in two parts : a kernel in C language and a user friendly front end interface special to the computer on which the program is installed. It works with numbers of arbitrary magnitude and precision. Static or animated 2D- and 3D-graphics are produced in PostScript language. The symbolic facilities can be used either directly through the existing statements which encompass most usual operations of arithmetic, algebra and analysis, or through a programming language. Examples drawn from accelerator physics and relativity theory applied to B meson factories will be given.

Thursday 16 November

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*

The large scale structure of the Universe

by P. SHAVER / ESO

Galaxies are not distributed at random in the Universe. The observed large scale structure in their distribution is relevant to questions regarding the formation of galaxies, and physical processes in the very early Universe. This talk will present a review of what is known about the observed structure : the 'hierarchy' of structure manifested by different types of galaxies, the nature of the observed structure, the largest scales on which structure has been found, and observations pertaining to the evolution of structure over the history of the Universe.

* Tea & coffee will be served at 16.00 hrs.

Friday 17 November

CAS ACCELERATOR SEMINAR

JOHN ADAMS' MEMORIAL LECTURE

at 14.30 hrs – Auditorium*

Making beams collide at the SLC

by Roger ERICKSON / SLAC

The SLAC Linear Collider, the first of a new generation of machines for high energy physics, has been brought into full operation this year. Achieving useful luminosity with this machine requires that opposing beams of electrons and positrons be focused to extraordinarily small spots and steered into collision with an unprecedented degree of accuracy. Techniques for guiding and monitoring such beams have been developed and incorporated into routine operations.

* Tea & coffee will be served after the lecture at about 16.00 hrs.

Monday 20 November

EF SEMINAR

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

The High Density Projection Calorimeter of DELPHI – Status and operational experience at LEP

by Ariella CATTAI / CERN-EF

A detailed review of the technical aspects of the detector and its installation in DELPHI will be presented. First results from LEP will be shown.

Wednesday 22 November

PS SEMINAR

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

Beam plasma experiments with heavy ions

by D. HOFFMANN / GSI, Darmstadt, West Germany

Jeudi 23 novembre

PRESENTATION TECHNIQUE

de 09.30 à 16.00 h – bât. 17, 1-007

Dr. K. Witmer Elektronik AG (CH) propose en démonstration :

1. alimentations de laboratoire, modulaires, à courant constant, haute tension, tension alternative, programmables, sans coupure pour ordinateurs

2. *stabilisateurs de tension alternative*

3. *convertisseurs de fréquence*

4. *transformateurs d'isolation*

Fabricants : Aline PC (F), Farnell Instruments (GB),

Fiskars (SF/S), Frako (D), Topaz (GB), Dr. K.

Witmer Elektronik AG (CH).

Langues : allemand, anglais, français

Information : M. Diraison / FI / 4585

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844-5811

Jeudi 16 Novembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tél. 2844-3364

14, 15, 16 & 17 November

11.00 to 12.00 hrs – Auditorium

More particle physics for non-particle physicists

by M. JACOB / CERN-TH

INFORMATICS TUTORIALS 1989

Announcement

- Title** : Text processing at CERN
- By** : DD Division, OCS Group – Text Processing Section
- When** : Afternoons of Tuesday 5 and Wednesday 6 December
- Where** : Council Chamber
- Subject** : An overview of the text processing systems at CERN will be presented. During the first half day the status of text processing and document preparation will be discussed, first in a general framework by Anders Berglund (ISO, Geneva) and then within the CERN context by Eric van Herwijnen. The second half day is dedicated to a more detailed treatment of the three main text processing areas in active use at CERN, namely :
- SGML/BookMaster on IBM VM/CMS (Michel Goossens)
 - T_EX on all platforms (Alexander Samarin)
 - MS-Word on Macintosh and IBM PC (Jurgen de Jonghe)
- Examples of the use of these systems will be shown and it will be indicated which system is best used for which purpose. Particular emphasis will be put on the inclusion of mathematical formulae, graphics and numerical data. The secretarial use of the text processors will also be discussed.
- Registration** : No formal registration is required
- Lecturers** : **Anders Berglund** : after having been responsible for text processing at CERN for many years, joined ISO headquarters in Geneva in September 1987. He has been an active member of the ISO committees, which shaped SGML and its associated standards.
- Eric van Herwijnen** : is head of the Text Processing Section in the OCS group in DD Division. He is presently writing a book on SGML.
- Michel Goossens, Jurgen de Jonghe and Alexander Samarin** work in the Text Processing Section.