

SEMINARS SEMINAIRES

Monday 1 September

TECHNICAL PRESENTATION

09.00 to 12.00 hrs – 14.00 to 16.30 hrs

DD Auditorium, bldg 31, 3-005

HEWLETT PACKARD present their two latest digitizing oscilloscopes. Their key features are as follows :

HP 54111 D

- 1 GS/s sampling rate/250 MHz single-shot bandwidth
- two channel simultaneous
- negative time
- 500 MHz repetitive BW
- color 54110 mainframe

HP 54112 D

- 400 MS/s
- 4 channel simultaneous
- 64 K/channel w. neg time
- complex triggering
- color 54110 mainframe

Language : English

Information : M. Diraison / FI / 4585

Monday 1 September

EP SEMINAR

at 16.30 hrs – Auditorium

Exclusive two photon reactions

by Martin POPPE / CERN

After a few remarks on the two photon process concerning selection rules, flux spectra and their implications for storage ring experiments, some exclusive gamma-gamma reactions measured at DESY and SLAC will be presented and indications are given of what can be learned from such processes.

Tuesday 2 September

SPS EXPERIMENTS COMMITTEE

at 09.00 hrs – Auditorium

Open Session

1. Status Report on UA2 (T. Del Prete).
2. Status Report on UA6 (L. Dick). (*Will be presented at the next session on 28 October 1986*)
3. Search for penetrating neutral particles in a short beam-dump experiment (Barcelona-Boston-CERN-Florence - Paris Collaboration; F. Vannucci; SPSC 86-23/P 225).
4. Study of unexplained hard photon production by electrons channeled in a crystal (Albany - Annecy - Lyon Collaboration; J. Remillieux; SPSC 86-22/P 224).

Closed Session

Tuesday 2 September at 14.00 hrs – Conference Room, 6th Floor, Administration Building
(to be continued on Wednesday 3 September, at 09.00 hrs).

Tuesday 2 September

PS AND SC COMMITTEE

No Open Session

Closed Session

at 09.00 hrs – Conference Room, 6th Floor, Administration Building

Tuesday 2 September

PRESENTATION

at 14.00 hrs – DD Auditorium

bldg 31, 3-005

High performance graphics products

(presentation by Günther and Partner GmbH, Garching)

Günther and Partner GmbH (Garching) will present a range of graphics products including the Omega/PC, 1024 × 768 pixels display and the Omega 3700, 2048 × 2048 pixels display, together with the whole range of support software. The Omega/PC has 16 colours with a vector drawing speed of 5 million pixels/second and hardware transformations and clippings. The Omega 3700 has up to 32 bit planes with a display list and graphics interpreter supporting raster operations.

The talk will last about 45 minutes and be followed by a demonstration of the Omega/PC and the Omega 530 products.

Language : English

Information : D. Myers / 4987.

Wednesday 3 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

No-scale supergravity from the superstring

by S. FERRARA / CERN

Wednesday 3 September

LEP SEMINAR

at 14.30 hrs – LEP Auditorium

bldg 30, 7th floor

A prototype power converter (2000 A/10 V) for the superconducting magnets of LEP

by K. FISCHER / CERN-LEP

Superconducting quadrupoles are used in the low-beta insertions of the LEP experiments. In order to reduce considerably the D.C. cabling costs, it is very desirable to position the power converters underground, close to their loads. Small size and high efficiency are therefore very important and a new generation of switch-mode converter was proposed for this application. The seminar will report on the design and testing of a 20 kW series-resonant converter for use on superconducting magnets.

Monday 8 September

EP SEMINAR

at 16.30 hrs – Auditorium

Measurements of charm meson and bottom hadron lifetimes at TASSO

by David STROM / University of Wisconsin-Madison

The large numbers of charm and bottom hadrons produced in high energy electron-positron annihilation at PETRA, together with the TASSO precision vertex detector, make measurements of the lifetimes of these particles possible. Measurements of the D^0 and D^+ meson lifetimes, based on reconstructed vertices, are reported. Two new methods for determining the average B hadron lifetime are also reported.

Tuesday 9 September

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Introducing foreign genes in plants; fundamental and applied prospects

by J. SCHELL / MPI für Züchtungsforschung, Cologne

Wednesday 10 September

LEP SEMINAR

at 14.30 hrs – LEP Auditorium

bldg 30, 7th floor

Integration of cryogenics in CERN accelerators : selected cases

by Ph. LEBRUN / CERN-LEP

TRAINING AND EDUCATION ENSEIGNEMENT

INFORMATICS TUTORIAL 1986-3

29 September to 3 October 1986

from 14.00 to 17.00 hrs and evenings

The programming language ADA

by Gian Vittorio FRIGO / CERN-DA

Presentation

ADA is a general purpose language particularly suited for large projects or real-time programs. ADA has been selected as the official programming language by (amongst others) the EEC, Boeing, NASA, the USA Dept. of Defence and the British Ministry of Defence.

audience

The course is aimed at advanced computer professionals. A sound knowledge of at least two high-level languages is assumed.

Topics

- Language overview; general program structure
- tasking concepts; object-oriented design
- design project : counting leaves
- packages; generic units
- design project : Data base enquiry
- tasks, exceptions; language details; ADA and FORTRAN
- design project : process control.

Course profile

Lectures will be given in the afternoon sessions, and the evenings will be devoted to hands-on experience. A basic knowledge of VMS and of the LSE editor is required.

Material

Course notes; ADA reference manual; 'Software engineering with ADA' by G. Booch.

Registration

For more information and to register, please call Jean-Louis Penaud at 4928 or send electronic mail to JLPCP@CERNVM.

About the lecturer

G.V. Frigo worked in compiler design at the Olivetti Research Lab in the sixties, and later joined the systems programming group at CERN/DD. He has worked with several languages, including Algol, FORTRAN, LISP, SNOBOL4 and Pascal. He is currently responsible for the computer centre of the Direction of Administration.

ENSEIGNEMENT TECHNIQUE

Le programme 1986-87 de l'Enseignement Technique contient la description détaillée des cours annuels et des séminaires prévus entre octobre et décembre 86 à l'intention des ingénieurs, techniciens, du personnel technique et administratif, ainsi que les informations nécessaires concernant les procédures d'inscription et d'autorisation.

Pour en obtenir un exemplaire, remplissez la carte qui a été distribuée à tous les membres du personnel et renvoyez-la.

Vous pouvez également utiliser le coupon ci-dessous ou consulter le programme au Secrétariat de votre Division.

TECHNICAL TRAINING

The 1986-87 Technical Training programme gives a detailed description of the annual courses and the seminars planned between October and December 86, organized for engineers, technicians, administrative and technical staff, as well as the enrolment and admission procedures.

If you wish to receive a copy, please fill in the card which has been distributed to all members of the personnel and return it.

You can also use the coupon below or consult the brochure at the Secretariat of your Division.