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TRAINING AND **EDUCATION** **ENSEIGNEMENT**

Mardi 5 mai

LES SCIENCES AUJOURD'HUI

à 20.00 h précises – Amphithéâtre
(jusqu'à environ 22.00 h)
par R. CARRERAS

Rafel Carreras, responsable du programme d'Enseignement général au CERN, commentera et expliquera un choix d'articles parus récemment dans des revues scientifiques, et qui couvrent l'ensemble des sciences physi-

Mercredi 6 mai

LAPP SEMINAR

à 10.45 h – Amphithéâtre du LAPP, Annecy

**Techniques nouvelles d'accélération pour
collisionneurs linéaires électron-positon**

par J. PERREZ-Y-JORBA / LAL, Orsay

*Pour tous renseignements, s'adresser à Guy COIGNET/
LAPP.*

ques et biologiques ainsi que certains aspects des relations science-société. Une attention particulière est portée au langage et aux notions utilisés afin que les explications et les commentaires soient accessibles aux personnes n'ayant pas de formation scientifique.

Entrée libre

(Please note that the lecture will be given in FRENCH)

Service des Relations Publiques
Tél. 2722

EUROPEAN LABORATORY FOR PARTICLE PHYSICS
1211 Geneva 23, Switzerland.

INFORMATICS TUTORIAL 1987-1

Announcement

Lecturer: ROBERT D. RUSSELL, Computer Science Department,
University of New Hampshire, Durham, NH. (U.S.A.)

Subject: **Compiling techniques**

Time: Monday to Friday June 1 to 5 1987 from 9:00 to 12:00 and 14:00 to 17:00.

Presentation: A large number of techniques and tools have been developed for translating one language into another. The most common example of this is a high-level language compiler, such as a Fortran compiler, which translates a Fortran source program into an object module in the machine language of the target machine. Other examples of the use of translation techniques can be found in command language decoders, data base query interfaces, interactive interpreters, macro processors and, perhaps surprisingly, text editors and formatters. The power, generality and ease of use of these translation techniques makes them an essential component in many software systems, especially those involving non-trivial user interfaces.

- Topics:** Finite state machines, regular expressions and regular grammars.
Use of LEX to generate scanners and simple filters for text processing.
General pattern matching such as found in editors, data base queries and other utilities (e.g., GREP).
Push down automata, context free grammars and Backus Naur Form (BNF).
LR(1), LL(1) and recursive descent parsing techniques.
Use of YACC to generate LALR(1) parsers.
General compiler organization. Symbol table organization and use.
Error detection and recovery. Semantics checking. Simple code generation.
Interpretative techniques. Design of run-time support.
- Course profile:** Lectures will be given each morning and for part of the afternoons sessions.
The rest of the afternoon sessions will be devoted to exercices involving the use of LEX and YACC tools on UNIX.
- Material:** Participants will receive a copy of *"Compilers: Principles, Techniques and Tools"* by Aho, Sethi and Ullman.
They will also receive copies of code listings for working examples.
- Registration:** For more information and to register, please contact :
M. G. de Bilio (phone 4409 or BILIO@CERNVM)
- The Lecturer:** Bob Russell has been a visitor at CERN several times, where he has designed and developed PL-11, ORION and most recently PILS.
He has been in the Computer Science Department at the University of New Hampshire for 11 years, and received his Ph.D. in Computer Science from Stanford University.

INFORMATIONS GENERALES GENERAL INFORMATION

UA1 VISITS

We regret to inform you that visits to the UA1 experiment are forbidden until further notice.

E. Radermacher / F. Szoncsó
EP Division

DISTRIBUTION DE LA LISTE DES POSTES VACANTS

Afin de rationaliser la procédure destinée à informer les membres du personnel sur les possibilités d'emploi, les listes de postes vacants seront désormais insérées chaque quinzaine dans le Bulletin hebdomadaire au lieu d'être distribuées séparément dans le CERN. La première liste paraît dans ce même bulletin.

Une description des fonctions principales des postes réservés aux candidatures internes sera ainsi communiquée. Quant aux vacances de postes également ouvertes aux candidatures externes, elles pourront être consultées au tableau d'affichage du Bâtiment principal et à la Division du Personnel.

Division du Personnel
Tél. 3736/2818

AUX UTILISATEURS DE CYCLOMOTEURS APPARTENANT AU CERN ET EQUIPES DE PLAQUES GE - ANNEE 1986

Les utilisateurs de cyclomoteurs doivent adresser avant le 4 mai 1987 dernier délai, à P. Badoux, les documents suivants :

- permis de circulation gris
- permis de circulation jaune
- carte verte d'assurance

afin de procéder au renouvellement des plaques pour l'année 1987.

Sous-section Ateliers
Section Manutentions
Division ST

DISTRIBUTION OF VACANT POST LIST

In order to rationalize the procedure for notifying members of the personnel about CERN staff employment opportunities, from now on the lists of vacant posts will be incorporated in the Weekly Bulletin every second week, instead of being distributed separately throughout CERN. The first edition of the new list appears in this Bulletin.

A description of the major functions is given for those posts reserved for internal candidates. Vacancy notices for posts which are also open to external candidates can be consulted on the notice board in the Main Building and in Personnel Division.

Personnel Division
Tel. 2735/2818