

Consultancy Services Manager, System
Industries, Woking

Language : English
Organizer : A. Silverman / CN

Wednesday 14 November

CN TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium
bldg 31, 3-005

New VAXes from Digital

by Pierre DYSLI

Language : English
Organizer : C. Parkman / CN / PMN@CERNVM

Jeudi 15 novembre

PRESENTATION TECHNIQUE

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

Présentation de Alcatel CIT (F) : appareils de mesure de basses pressions, les manomètres électroniques série Pascal.

Démonstration de Métra-Céram (F), spécialiste de l'utilisation des céramiques techniques.

Langue : français
Renseignement : M. Diraison / FI / 4585

TRAINING AND EDUCATION ENSEIGNEMENT

Mardi 6 novembre

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 physiques 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

ENSEIGNEMENT GENERAL

Tél. 5811 ou 3674 (le matin)

Jeudi 8 novembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tél. 2844-3674

5 & 7 November

LECTURES FOR POSTGRADUATE STUDENTS

11.00 to 12.00 hrs – Auditorium

Heavy flavours and CP violation

by P. ZERWAS / Rhein.-Westf. Technische
Hochschule, Aachen

Lectures 2 & 3

12, 15, 19, 21 & 23 November

LECTURES FOR POSTGRADUATE STUDENTS

10.30 to 12.00 hrs – Auditorium

Electro-weak interactions

by R. KLEISS / CERN-TH

An outline of electro-weak precision phenomenology is presented with application to LEP physics :

- 1. Read the minimal Standard Model*
- 2. Read renormalization*
- 3. Read weak corrections to LEP processes*
- 4. Read QED corrections to LEP processes.*



Technical Seminar

OBJECT-ORIENTED SOFTWARE CONSTRUCTION

A two-day course

November 19th and 20th, 1990

Purpose:

This course introduces Object-oriented design and programming, a major technological breakthrough in software engineering over the past years. The full power of the techniques that must be mastered for true Object-oriented design will be presented: classes, export control, single and multiple inheritance, assertions, programming by contract, disciplined exceptions, genericity, polymorphism, dynamic binding and many others.

The course is intended for people involved in software development, either as managers or as developers, who want to improve software quality and productivity.

Outline:

1 - Issues

- Software quality: Where are the bottlenecks?
- Fundamental quality factors
- Simple-minded approaches and why they fail.
- Modularization
- The theoretical basis: Abstract data types
- The object-oriented revolution

2 - Principles

- Object-oriented design
- Basic structures: Classes. Export controls
- Inheritance: Polymorphism, dynamic binding
- Language support : Eiffel implementation
- Tool support : Compilation vs. interpretation
- High-level design : Deferred classes
- Practical issues

3 - Application

- In-depth case study, showing how to apply object-oriented techniques to the systematic development of an evolutionary system built from reusable, robust and flexible software.

4 - Tools

- Object-oriented programming without an object oriented language : Simulating the techniques in C, Pascal, Fortran, Cobol.
- Modular languages: Are Ada, Modula-2 object-oriented languages?
- Object-oriented languages : A review. Simula, Smalltalk, Objective C, C++, Eiffel, Loops.
- Object-oriented programming and Unix.
- Object-oriented databases.
- Putting reuse to work : Catalogs and databases of software components. Beyond the browser.
- Current research : object-oriented AI. Hardware
- Beyond methods and languages : Human interface issues. Graphics. Concurrency, real-time.
- The managerial perspective : How to implement the new methodology in a practical environment

Lecturer:

Dr. Philip Hucklesby, a software engineer at SOL, Paris. Team leader for support and consultancy to the Eiffel community in Europe, co-author of the Eiffel parsing libraries.

Course material:

Reproduction of the more than 200 transparencies and a number of supporting articles on object-oriented concepts.

The book "Object-oriented Software Construction" by Bertrand Meyer (Prentice-Hall, 1988), a 534-page, in-depth review of Object-oriented methods, techniques, languages and tools.

Organisation:

The course has been proposed by STING (Software Technology INterest Group) and is organised by the Technical Training.

Cost:

600.- Sfr per person

Registration:

Please fill in the application form which has been published in the Technical Training brochure. Extra copies of this brochure may be obtained from the Divisional Secretariats and the Technical Training Secretariat. For further information contact T. d'Amico, tel. 5141, beep 4045, e-mail DAMICO@CERNVM