

Wednesday 9 February

COMPUTING SEMINAR

at 16.00 hrs – CN Auditorium
bldg 31-3005

Experiment in Object-Oriented Design of a Scientific Visualization Tool

by Gregory KOZLOVSKY / CERN-CN

Displaying graphs of functions of one variable together with the associated information is the most basic problem of scientific visualization. We identify the main subtasks of this problem (treating details of graph representation, scaling, labeling, geometry management, and graphical user interface), and propose program structure for a general-purpose one-dimensional function viewer. A prototype C++ implementation of such a viewer, g1tool, is presented, and the lessons learned during this experiment are discussed. One of the goals of the talk is to give concepts of the object-oriented programming specific meaning in an application area which is familiar to many CERN programmers.

Friday 11 February

TECHNICAL PRESENTATION

10.00–16.30 hrs – CN Auditorium
bldg 31/3-005

Tino Häupke and Holger Ölschläger of
Dr. BERND STRUCK (D) will give

a presentation at 10.00 hrs, repeated at 14.00 hrs.

New products in the field of :

- FASTBUS – DSP based Readout Engine and Frontend
Data Compressor
– Optical Crate Interconnect (high speed long distance)
– 32 Channel Leading Edge Discriminator
VXI/VME – DSP based Readout Engine and Frontend
Data Compressor
VME – 40 - 250 Msamples/s Multichannel Flash
ADC-Systems

EDUCATION SERVICES EDUCATIFS

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 3 février

à 13.00 h – Amphithéâtre
Science pour tous
par Rafel CARRERAS

ACADEMIC TRAINING

Tel. 3127

LECTURE SERIES

31 January, 2, 3 & 4 February*

11.00 to 12.00 hrs – Auditorium
Introduction to neural networks
by F. JAMES / CERN-CN

* Please note change of day!

- NIM-Logic and Level shifting functions in VME form factor

CAMAC – Intelligent Crate Controller, 68030 based,
LYNX-OS

Language : English

Information : M. Diraison / FI-A / 4585

POUR / FOR INFORMATION

UNIVERSITE DE GENEVE

Département de physique nucléaire et corpusculaire
24, quai Ernest-Ansermet
1211 Genève 4
Tél. 022 702 6273
Fax 022 781 2192

Wednesday 2 February

PARTICLE PHYSICS SEMINAR

at 17.00 hrs – Stuckelberg Auditorium

Transverse spin-polarisation and its use at LEP

by Jean-Pierre KOUTCHOUK / CERN

In e^+e^- storage rings, the spin-dependent synchrotron radiation causes the circulating beams to become spontaneously polarized. However, non spin-dependent synchrotron radiation enhances the depolarizing effect due to the unavoidable optics imperfections. The latter increases very fast with the beam energy. At LEP spontaneous beam polarization is observed at the highest energy so far. It is shown how polarization could be improved from below 20% to almost 60%. Experimental results on higher-order spin resonances and asymmetric wigglers are presented and are compared with theoretical calculations. They shed some light on the possibility of spontaneous beam polarization at energies higher than 46 GeV. As an important application of polarization the precise calibration of the LEP beam energy is described.

LECTURE SERIES

7, 8, 9, 10 & 11 February

11.00 to 12.00 hrs – Auditorium

Weather Forecast

by P. COURTIER / ECMWF, Reading, U.K.

Weather prediction is performed using the numerical model of the atmosphere evolution. The evolution equations are derived from the Navier Stokes equation for the adiabatic part but they are very much complicated by the change of phase of water, the radiation process and the boundary layer. The technique used operationally is described. Weather prediction is an initial value problem and accurate initial conditions need to be specified. Due to the small number of observations available (10^5) as compared to the dimension of the model state variable (10^7), the problem is largely underdetermined. Techniques of optimal control and inverse problems are used and have been adapted to the large dimension of our problem. The atmosphere is a chaotic system; the implication for weather prediction is discussed. Ensemble prediction is used operationally and the technique for generating initial conditions which lead to a numerical divergence of the subsequent forecasts is described.

L'APPRENTISSAGE AU CERN, INFORMATION ET RECRUTEMENT
POUR LA PROFESSION D'EMPLOYÉ(E) DE COMMERCE

L'apprentissage au CERN est régi par les lois, règlements et contrats en vigueur dans le Canton de Genève.

En cas de réussite à l'examen de fin d'apprentissage, les apprentis obtiennent le Certificat Fédéral de Capacité Suisse (CFC).

Une place est offerte.

L'apprentissage dure 3 ans.

Minima requis pour faire acte de candidature :

1. avoir entre 15 ans et 20 ans révolus à la date de début de l'apprentissage
2. avoir terminé la scolarité obligatoire
3. avoir un niveau scolaire correspondant à la 9ème à Genève et à la 3ème en France (connaissances d'allemand et d'anglais exigées)
4. être ressortissant d'un pays-membre du CERN (Allemagne, Autriche, Belgique, Danemark, Espagne, Finlande, France, Grèce, Hongrie, Italie, Norvège, Pays-Bas, Pologne, Portugal, République slovaque, République tchèque, Royaume-Uni, Suède, Suisse)
5. a) pour les résidents en Suisse : être ressortissant suisse ou être titulaire d'un permis de séjour
b) pour les résidents en France dans la zone frontalière : être ressortissant suisse ou être enfant de fonctionnaire du CERN.

Sur demande, les brochures d'informations et les formulaires de candidature seront envoyés aux intéressés.

Les candidatures doivent être reçues au plus tard le **14 mars 1994**.

Les candidatures ne seront prises en considération que si elles sont complètes. Des photocopies (pas les originaux!) des documents suivants doivent être jointes au formulaire de candidature :

- carte d'identité ou passeport
- toutes les notes scolaires du début du secondaire à l'année en cours, soit : , les bulletins trimestriels français ou autres.

La sélection (test de connaissances, entrevue, stages pratiques) à lieu de *mars à mai*.

Les apprentis sont engagés (contrats signés) au plus tard en *juin*.

L'apprentissage débute le 1^{er} *septembre*.

En règle générale, le CERN n'engage pas ses apprentis directement après leur apprentissage.

Pour tous renseignements sur les apprentissages à Genève, s'adresser à :

l'Office d'Orientation et de Formation Professionnelle
6 rue Prévost-Martin
Case Postale 457
1211 Genève 4
tél. 022 705 01 11

Pour toutes informations complémentaires contacter :

Laurence de LORIOI, tél. 767 44 70, bât. 5/2-028



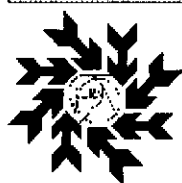
Renvoyer ce coupon à Laurence de LORIOI / PE

Je désire recevoir la documentation sur l'apprentissage d'employé de commerce.

Nom

Prénom

Adresse



ENSEIGNEMENT TECHNIQUE TECHNICAL TRAINING

☎ 44.60
eductech@cernvm

Technical Seminar

ORACLE 7 for developers

1 - 2 March

by Natsoft

Purpose:

The course is intended for anyone who is presently involved in developing applications on the version 6 of ORACLE and who would like to transfer them under the version 7. A sound knowledge of the SQL language and of the SQL*Plus tool are required.

Content:

1. ORACLE 7 : New Features
 - Introduction.
 - ORACLE 7 Architecture.
 - Performance Issues (Cursor Sharing (SQL Orders), Multi-Client Servers, New Cluster Management).
 - New Functionality (Changed Types of Data, New Types of Data, New Functions, New SQL Features, Optimiser, Hints).
 - Availability.
 - Administration (Rights Management, Resource Management, Administration Tools).
 - Networks (Functionality, Two Phase Commit (Normal case and malfunction)).

2. Integrity Constraints

Definitions (Environmental Constraints, Referential Integrity, Functional Dependency).
ORACLE 7 and integrity constraints
Declarative Integrity (Environmental Constraints, Referential Integrity, Other types of Integrity).
Switching Constraints On and Off.
Adding and Deleting Constraints.
Constraint Management.
Data Dictionary.

3. Stored Procedures and Functions

PL/SQL Highlights (Variables, Procedural Aspects of PL/SQL, Error Handling).
Stored Procedures and Functions (Procedure Creation, Function Creation, Calling Procedures and Functions, Debugging Procedures, Principles of Dependency, Privileges).
Package (What is a Package? Syntax of Package Creation, Using a Package).

4. Triggers

Definition (Syntax of Trigger Creation, Types of Trigger).
Sequence of Trigger Execution.
SQL Extensions specific to Triggers.
Switching Triggers On and Off and Compilation.
Data dictionary.

5. Methodology

Using a methodology
Organisation of Developers and Administration.

6. V6 to V7 Migration.

Registration:.

Those who would like to apply should fill in an "Application for Training" form which may be obtained from the Divisional Secretariat or the Divisional Training Officer. A financial contribution of CHF 400 per person will be charged to the division. The number of participants is limited to 12. Extra sessions may be organised if necessary.

INFORMATIONS GENERALES GENERAL INFORMATION

SERVICE DU LOGEMENT : HOTELS

RESERVATIONS DE CHAMBRES ET/OU DE SALLES DE CONFERENCES POUR SEMINAIRES

Certains hôteliers qui consentent des tarifs préférentiels au Service du Logement du CERN ont proposé de faire visiter leur établissement aux membres du personnel appelés à effectuer des réservations, soit de chambres soit de salles de conférences pour séminaires, etc.

Les personnes concernées seraient ainsi mieux en mesure de comparer les différentes possibilités et effectuer un choix judicieux en fonction de la nature de la demande.

Toute personne intéressée à participer à de telles visites est invitée à communiquer son nom, Division et numéro de téléphone à Mme C. Canale à la Réception du Foyer (bât. 38 R-004), tel. 4481, Email : Hostel@CERNVM.

HOUSING SERVICE : HOTELS

RESERVATIONS FOR OVERNIGHT STAYS OR OF CONFERENCE ROOMS FOR SEMINARS, etc.

Some of the hotel managers who grant preferential rates to the CERN Housing Service have offered to organize visits of their premises for members of personnel whose work involves making reservations either of rooms for overnight stays or of conference rooms for seminars, etc.

The people concerned will thereby be in a better position to compare the various possibilities and choose the solution most appropriate to the particular needs.

Anyone interested in participating in such visits should give their name, Division and telephone number to Mrs C. Canale at the Hostel Reception (bldg 38 R-004) tel. 4481; Email : Hostel@CERNVM.