

Si vos cartes ou celles des membres de votre famille sont périmées, l'Organisation ne prend aucune responsabilité en cas de difficulté avec les autorités de douane ou de police.

The Organization cannot accept any responsibility in the event of difficulties with the customs or police authorities encountered by persons whose cards have expired.

Division du Personnel
Tél. 4683 - 4474

Personnel Division
Tel. 4683-4474

SEMINARS SEMINAIRES

Monday 23 October

TECHNICAL PRESENTATION

at 14.00 hrs – CN Auditorium, bldg 31/3-004 & 5

Présentation des nouveaux produits NCD

by M. GUILLOUX / Sales Manager &
M. VAU / Technical marketing manager NCD France

Xterminaux 24 bits couleur, XPLORE, etc., nouvelle génération de terminaux X-window, équipé de processeurs 64 bits, résolution maximale 1600x1200, interfaces série, parallèle, PCMCIA, multimédia.

Présentation du logiciel NCDWare 4.0, 3D graphics support avec OpenGL.

Présentation MS Windows sur Terminal X avec NTRIGUE.

Questions/réponses.

Organiser : S. Cannon / CN / 5036

Monday 23 October

PPE SEMINAR

at 16.30 hrs – Auditorium

Single photon and photon-jet production at D-Zero

by Bernard G. POPE / CERN & Michigan State Univ.

Results are presented on the observation of isolated single photons by the D-Zero detector at the Fermilab collider. The inclusive cross section has been measured for photons in the central rapidity region for transverse energies above 10 GeV. Studies of jets recoiling against the single photon permit the measurement of the fundamental hard scattering angular distribution, while an analysis of the rapidity correlations between high transverse energy photons and the leading jet probes the gluon x distribution.

Tuesday 24 October

TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31/3-004 & 5

LOOK! a dynamic, graphical, C++ runtime visualization

by Clive HARRIS / Objectif Software Technology

C++ developers tend to think in terms of objects, classes, how objects relate to one another and communicate. LOOK! is a dynamic, graphical, C++ runtime visualisation framework that matches the way you think. LOOK! processes executables and reconstitutes animated object diagrams that play alongside your application as it executes. Unlike older procedural and static source-code based tools, LOOK! is totally object-oriented from the ground up. The end result is a superb C++ debugging and exploration environment in which you can actually see your objects intercommunicate as your application progresses.

Using LOOK! you can quickly:

- * Identify C++ structural problems
- * Expose invalid object references and relationships
- * Learn the run-time behaviour of other team members code together with third-party code and class libraries
- * Eliminate unnecessary object creation, destruction and communication, allowing code quality to be improved.
- * Understand the complexities of compiler-synthesised activity

Agenda

Introduction – Presentation (10 min)

LOOK! technology – Presentation (20 min)

Detailed LOOK! demo (1 hour)

LOOK! availability and benefits – Presentation (20 min)

Questions and answers – Open forum (15 min)

Organiser : S. Cannon / CN / 5036

Tuesday 24 October

UMTF COMPUTING TUTORIAL

from 14.00 to 16.00 hrs, CN Auditorium

"Introduction To Emacs"

by J.H. Peters / DESY & CERN

This is the first tutorial in a regular lecture series organized by the User Migration Task Force of the CN division. It is targeted to users who need to migrate from CERNVM or any other platform to Unix and

need to acquire enough knowledge for their everyday work on one of the Work Group or PLUS Servers or any other workstation running the recommended HEP Unix environment.

Until the end of this year the following dates and topics are foreseen for further lectures:

Tuesday 31 October at 14.00-16.00 hrs

"Advanced Editing with Emacs" (J.H.Peters)

Wednesday 8 November at 10.00-12.00 hrs

"Basic Unix Commands / Unix File System" (J.H.Peters)

Wednesday 15 November at 10.00-12.00 hrs

"Handling your Mail on Unix with PINE" (A.Miotto)

Monday 20 November at 14.00-16.00 hrs

"How to Access the Public Unix Services" (T.Cass)

Thursday 30 November at 10.00-12.00 hrs

"How to Set Up Your Unix Shell Environment" (A.Taddei)

Wednesday 6 December at 10.00-12.00 hrs

"Basic Unix Commands / Jobs & Processes" (J.H.Peters)

The program will continue next year covering topics as scripting languages like Perl and Tk/Tcl, X sessions, mailing lists, etc.

The timetable for these will be published in due course.

The first lecture on the recommended editor emacs will cover

the basic terminology, explain how commands are issued, and will show how to insert, delete and change text, how to search for strings, how to handle files and how emacs backups your work to help you to recover from your and system errors.

Mercredi 25 octobre

PRESENTATION TECHNIQUE

de 10.00 à 16.30 h – Amphithéâtre AT, bât. 30, 7^e étage

Démonstration des produits suivants : tables optiques, lentilles, laser et accessoires, tables de positionnement, fibres optiques, optiques en général, systèmes de test pour l'optique

par Ealing (GB) représenté par Hilpert electronics AG (CH)

Langues : allemand, anglais et français

Renseignements: M. Diraison / FI-A / 4585

Wednesday 25 October

PS SEMINAR

at 11.00 hrs – PS Auditorium

CLIC, a study for a Compact Linear Collider

by J.-P. DELAHAYE / CERN-PS

Within the framework of a world-wide collaboration, the CLIC study explores the high frequency option for an e⁺/e⁻ Linear Collider in the 1-2 TeV energy range, generally acknowledged as the best complement to LHC. It is based on the "Two Beam Acceleration" concept in which the main beam is driven by a high intensity primary beam. The energy transfer from the primary beam to a test beam has been demonstrated in CTF1 at CERN with the production of a 75 MWatt RF power at 30 GHz and accelerating fields of 120 MeV/m. A second phase of the test facility (CTF2) is in preparation to investigate the feasibility of the CLIC scheme with a 320 MeV linac. Its scope and technical challenges will be discussed.

Wednesday 25 October

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The strong coupling from lattice QCD

by Rainer SOMMER / CERN

We explain the role of lattice QCD in determining the fundamental parameters of QCD from experimental data. As couplings assume universal (perturbative) behaviour only at high energies, one needs to cover a large range of scales. This can be done by a recursive finite size scaling method. Results - in the continuum limit - have so far been obtained in pure Yang-Mills theories. We have also learned about the systematic improvement of the lattice action in order to accelerate the approach to the continuum limit. We will further critically review the status of α_s determinations in full QCD.

Thursday 26 October

TECHNICAL PRESENTATION

Part 1 at 09.00 hrs, **part 2** at 13.30 hrs
LEP Auditorium, bldg 30/7th floor

Engineering software packages

by MacNeal-Schwendler GmbH

Part 1.

MSC/PATRAN is a pre- and postprocessing finite element package with possible direct link to CAD models (on-line access to EUCLID). This package is helpful in the preparation of a finite element analysis model and online MSC/Nastran analysis, and post-processing of results. Connection with other solvers such as Ansys and Castem is one of the common features of the product. Some information on the analysis package ARIES will also be given.

Part 2.

MSC/M Vision is a database for storage and retrieval of information on material properties. It is a powerful tool for the management of different types of data (numerical, text, graphics, plots, etc.) with access to existing built-in databanks (metal, composite, plastic, ceramic materials) as well as user-developed databanks.

Both softwares will be presented with an on-screen demonstration.

Information: B.Nicquevert, PPE (tel. 6083), and V.Parma, MT-ESH (tel.9183).

Thursday 26 October

LHC TECHNICAL SEMINAR

at 16.30 - Auditorium Bldg. 30/7th fl.

Electromagnetic Design and Optimization of Superconducting LHC Magnets

S. RUSSENSCHUCK / CERN-AT

The electromagnetic design and optimization of superconducting accelerator magnets for LHC is presented. Methods and results are illustrated with emphasis on the revised dipole magnet design. Equally, the software tool ROXIE as an approach to a design "synthesis" including numerical field calculation, mathematical optimization, tracing of manufacturing errors and CAD-CAM will be described.

Note : For a superconducting accelerator such as the LHC with very sophisticated technology in many different domains a close collaboration between the different specialists is of particular importance. The *LHC Technical Seminar* is intended to provide a forum for information and discussion, in particular on issues related to the LHC accelerator technology. This seminar will be organized about monthly and is open to everybody.

Friday 27 October

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Power corrections and renormalons in Drell-Yan production

by Vladimir BRAUN / NORDITA

The resummed Drell-Yan cross-section in the double logarithmic approximation suffers from infra-red renormalons. Their presence was interpreted as an indication for non-perturbative corrections of order $\Lambda_{\text{QCD}}/(Q(1-z))$. We find that, once soft gluon emission at large angles is taken into account, the leading renormalon divergence is cancelled by higher-order perturbative contributions in the exponent of the resummed cross-section. From this evidence, "higher twist" corrections to the hard cross-section in Drell-Yan production should intervene only at order $\Lambda_{\text{QCD}}^2/[Q(1-z)]^2$ in the entire perturbative domain $Q(1-z) > \Lambda_{\text{QCD}}$.

Monday 30 October

TECHNICAL SEMINAR

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

HEP-PC: A project to explore commodity computing for HEP

by Manuel DELFINO / Universitat Autònoma de Barcelona and SCRI

Commodity computing components, such as modern personal computers and their operating systems, may be ideal building blocks for the large processor farms required by future High Energy Physics experiments, including those of the Large Hadron Collider at CERN. A research and development effort (P61) has been proposed to the LHCC, rooted in ongoing work by various groups with the Windows NT operating system running on a variety of hardware platforms. The relevant characteristics of NT will be explored, with some examples of running applications, as well as the aims of project P61.

Monday 30 October

PPE SEMINAR

at 16h30, auditorium

News on the Ω_c (ssc)

by Stephan PAUL / MPI Heidelberg

Only little is currently known about the Ω_c (ssc), the heaviest charmed baryon groundstate. Its lifetime and decay branching ratios will provide important insight into the structure of heavy baryons.

We present first results from the hyperon beam experiment WA89 at CERN. The Ω_c lifetime is $55 + 13 - 11$ (stat) $+ 18 - 23$ (sys) fs, the shortest measured lifetime of a weakly decaying particle. Preliminary estimates on the relative branching ratios of 6 different final states are also given.

Tuesday 31 October

TECHNICAL PRESENTATION

at 10.00 hrs – CN Auditorium, bldg 31/3-004 & 5

Logiscope, C/C++/Fortran code quality and test

by Alain EISENSTEIN / Verilog

Logiscope is a CASE tool providing code quality verification, testing, and test coverage analysis through a comprehensive reverse engineering tool set. Logiscope's ability to analyze all or part of the code gives development, testing and maintenance engineers a solution to managing new or existing software systems. Logiscope supports different dialects of many languages such as C, C++, Fortran, Ada, Cobol, etc. See <http://www.cern.ch/PTTOOL/Logiscope/> for availability at CERN.

Agenda

Presentation and demo of the new release of Logiscope.

The following tools of the Logiscope platform will be shown:

- *CodeChecker*: Produces an overall quality report implementing function control graph metrics, call graph metrics and new object oriented (for C++) metrics.
- *TestChecker*: Provides on line graphical measurement of the coverage reached with your test programs.
- *RuleChecker*: Detects programming rules violations in your code.

At the end of the show we will introduce the LOV reverse engineering tools that generates OMT Object diagrams out of C++ code.

An open house "bring-your-own-code" session will be organized in the afternoon in bldg 1/R-009 where you will be able to analyze your code with Logiscope.

Prepare a small compilable sample.

More details at the presentation.

Organiser : S. Cannon / CN / 5036

Tuesday 31 October

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Wed, Nov 15, 10.00-12.00 "Handling your Mail on Unix with PINE" (A.Miotto)

Mon, Nov 20, 14.00-16.00 "How to Access the Public Unix Services" (T.Cass)

Thu, Nov 30, 10.00-12.00 "How to Set Up Your Unix Shell Environment" (A.Taddei)

Wed, Dec 6, 10.00-12.00 "Basic Unix Commands / Jobs & Processes" (J.H.Peters)

The program will continue next year covering topics as scripting languages like Perl and Tk/Tcl, X sessions, mailing lists, etc. The timetable for these will be published in due course.

This second lecture on the recommended editor emacs will cover emacs variables, command repetition and re-execution, how to make use of registers and the mark ring, how to manipulate words and check the spelling of texts from within emacs, compare files and how to use the language sensitive features of emacs. Basic knowledge of emacs is required for this tutorial.

Thursday 2 & Friday 3 November

THIRD GENERAL MEETING OF THE LEP2 WORKSHOP

at 09.00 hrs – Auditorium

Preliminary Agenda

Thursday 2 November

09.00-09.30 Recent developments for the LEP2 project
C. Wyss

09.35-10.15 Performance of SC-RF system
D. Boussard

10.20-10.50 Report on the Physics/Machine WG
F. Richard

Break

11.15-11.45 Physics goals of the 140 GeV run
S. Komamiya

11.50-13.10 W mass

Lunch

14.00-14.50 WW
14.55-15.45 WW (Ev. gener.)

Break

16.15-16.55 Standard processes
17.00-17.30 QCD
17.35-18.05 QCD (Ev. gener.)

Friday 3 November

09.00-10.30 Higgs

Break

11.00-11.20 New particles (incl. Ev. gener.)
11.25-11.50 New particles (incl. Ev. gener.)
11.55-12.15 New particles (incl. Ev. gener.)
12.20-12.45 Z'

Lunch

14.00-14.30 $\gamma\text{-}\gamma$
14.35-15.05 $\gamma\text{-}\gamma$ (Ev. gener.)
15.10-15.40 Bhabha (Ev. gener.)

Break

16.15-17.00 WWV
17.00-17.30 Prospects at the Tevatron
17.35 Conclusion
G. Altarelli

EDUCATION SERVICES EDUCATIFS

ENSEIGNEMENT GÉNÉRAL – Tél. 5811

Jeudi 26 octobre

à 13.00 h – Amphithéâtre
Science pour tous
par Rafel CARRERAS
Reprise des cours

ACADEMIC TRAINING – Tel. 3127

LECTURE SERIES FOR POSTGRADUATE STUDENTS

23, 24, 25, 26 & 27 October

11.00 to 12.00 hrs – Auditorium

Introduction to Gauge Theories and the Standard Model

by B. de WIT / Institute for Theoretical Physics,
Rijksuniv. Utrecht, NL

The conceptual basis of gauge theories is introduced to enable the construction of generic models. Spontaneous symmetry breaking is discussed and its relevance for the renormalization of theories with massive vector fields is explained. Subsequently a derivation is presented of the standard model. When time permits we will address more practical questions that arise in the evaluation of quantum corrections.

Friday 3 November

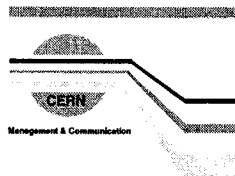
PRESENTATION

at 09.00 hrs – PS Auditorium, bldg 6/2-024

CERN R&D on Object Orientation

A full day of presentations from RD13 (Scalable DAQ), RD38 (Cicero), RD41 (Moose), RD44 (Geant4) and RD45 (Persistent Object Manager). The day is meant to give an overview of the progress made in R&D on the various aspects of Object Orientation. Official status reports on some of those projects will have to be presented (in a much shorter form) during the open presentation of the LHCC Review Boards on Tuesday, 7 November 1995.

For more information, including the agenda, see <http://hpmoose0.cern.ch/moose/oo-day/agenda.html>



Madeleine PINCOTT ☎ 3674
madeleine_pincott@macmail
<http://www.cern.ch/EducTech/>

Formation en Management et en Communication *Management & Communication Training*

Il reste quelques places disponibles pour les séminaires suivants :

Communiquer efficacement,
1^e partie : 13, 14 novembre 1995
2^e partie : 14, 15 décembre 1995

Techniques d'exposé et de présentation
14, 15 novembre & 11 décembre 1995

Animer/participer à une réunion
15, 16 novembre 1995

Formation à l'appréciation des performances
29, 30 novembre 1995

Si vous désirez participer à un de ces séminaires, contactez rapidement Madeleine Pincott.