

SEMINARS SEMINAIRES

Monday 26 September

TECHNICAL PRESENTATION

at 15.00 hrs – CN Auditorium
bldg 31/3-005

Digital's ATM Strategy

by James E. KUENZEL / High Performance Networks Group, Digital Equipment Corporation, Littleton USA

Asynchronous Transfer Mode (ATM) offers exciting possibilities for the complex, distributed network of the 1990's. The presentation will focus on Digital's ATM product rollout and strategy. Digital's ATM rollout includes a series of products with deliveries that started in June of this year. The Digital strategy includes a comprehensive vision and implementation schedule that is consistent with the developments in the market place.

Information : S. Cannon / CN / 5036

Tuesday 27 September

TECHNICAL PRESENTATION

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

High Performance Analog Data Acquisition

by Pentland Systems Ltd.

As most designers and system integrators are aware good design practices such as layout, tracking, grounding, decoupling, component selection are essential to ensuring a high performance product whether it be in the high-speed or high-accuracy domain. However, this is often not enough and new techniques and implementations are required to meet the ever demanding requirements. The presentation will cover some of Pentland Systems findings and experiences throughout the design of the high-accuracy MPV915-21 and the high-speed MPX201.

The MPV915-21 was specifically designed for CERN giving 32 channels of analog input to 0.006% full-scale-resolution accuracy. The MPX201 is aimed at the high-speed data acquisition requirements with a performance of 20 MSPS input, >63 dBc SFDR, and >56 dB SINAD. The seminar along with an overview on the designs shall review the specification criteria, their meaning and their relevance within the analog subsystem. A demonstration of the MPX201 will conclude the seminar

Information : S. Cannon / CN / 5036

Tuesday 27 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Penguin-decays of the bottom quark

by E. H. THORNDIKE / University of Rochester, USA

I will briefly describe CLEO's searches for: exclusive charmless hadronic B decays (manifestations of the parton-level processes $b \rightarrow sg$ and $b \rightarrow uW$); decays $B \rightarrow K^{(*)} l^+ l^-$ (manifestations of $b \rightarrow s l^+ l^-$); and decays $B \rightarrow \rho/\omega \gamma$ (manifestations of $b \rightarrow d \gamma$). Then, I will give a fuller exposition of the CLEO measurement of the branching ratio for the inclusive $b \rightarrow s \gamma$ decay, the experimental technique, results, and implications for non-standard models.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 28 September

SYMPOSIUM IN HONOUR OF ANDRÉ MARTIN'S 65TH BIRTHDAY

at 09.30 hrs – Auditorium

09.30-12.30 Chairman : Y. YAMAGUCHI

K. CHADAN : Bound states and scattering with potentials

W. THIRRING : Stability of Matter

T. KINOSHITA : Precise determinations of the fine structure constant

Lunch

14.30-17.30 Chairman : L. RADICATI

J. STUBBE : Order and spacing of energy levels

J.L. ROSNER : Charm and beauty in particle physics

N.N. KHURI : General properties of scattering amplitudes, past and future

Thursday 29 September

TECHNICAL PRESENTATION

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

The quest for general purpose parallel computing

by Burton SMITH / chief scientist, TERA COMPUTER Co., Seattle USA

General purpose computing has enjoyed little performance improvement since 1980. Vector multiprocessors and massively parallel computer systems are too specialised, and mainframe performance is stagnant. TERA is developing a general-purpose parallel computer system that combines multithreaded processors with an extremely high bandwidth interconnection network to offer true shared memory, full scalability, a simple software development environment, and very high computational and I/O performance. The key concepts and attributes of the system will be described.

Information : S. Cannon / CN / 5036

Monday 3 October

PPE SEMINAR

at 16.30 hrs – Auditorium

Measurement of $\Gamma(Z^0 \rightarrow b\bar{b})/\Gamma(Z^0 \rightarrow \text{hadrons})$ by OPAL

by Masahiro MORII / University of Tokyo

The OPAL collaboration has measured the fractional hadronic decay width of Z^0 into bottom quarks using the data collected in 1992 and 1993. The presence of electrons or muons from semileptonic decays of bottom hadrons and the detection of bottom hadron decay vertices were used together to enrich $Z^0 \rightarrow b\bar{b}$ events. The systematic error of the measurement was reduced by the use of a double-tagging technique in which the selection efficiency for $b\bar{b}$ events was obtained from the data by a combination of the numbers of events having a bottom signature in either one or both thrust hemispheres. A value of $\Gamma(Z^0 \rightarrow b\bar{b})/\Gamma(Z^0 \rightarrow \text{hadrons}) = 0.2171 \pm 0.0021 \pm 0.0021$ was obtained where the first error is statistical and the second systematic. A $\pm 8\%$ fractional variation of the decay width $\Gamma(Z^0 \rightarrow c\bar{c})$ about its Standard Model prediction would result in an additional error of ± 0.0015 .

Wednesday 5 October

BOOK LAUNCH

at 16.00 hrs – Council Chamber

'The human race was always wanted to look beyond the horizon, to see what is out there..... On either side of us the Universe has structure on scales many billions of times bigger and smaller than our own. Because this range is not quite infinite, there is hope that we may one day completely understand this structure from the very smallest to the very largest.... The only thing that seems to be unbounded is the power of reason,' says Stephen Hawking in his introduction to the new illustrated book (which features CERN's work and several CERN personalities)

The Search for Infinity

by Gordon Fraser (CERN), Egil Lillestøl (CERN) and

Inge Sellevåg, Published by Mitchell Beazley (London) 1994, Facts on File (New York) 1995.

Copies will be on sale at CERN for 30 Swiss Francs, less than the UK retail price of £16.99

Jeudi 6 octobre

PRESENTATION TECHNIQUE

10.00-12.00 h et 13.30-16.00 h –bât. 17/1-007

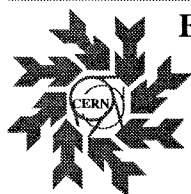
Vannes et accessoires, soupapes de sûreté pour usages industriels

par Alfa Ingenieurbüro AG (CH)

Langues : allemand, anglais et français.

Renseignements : M. Diraison / FI-A / 4585

**EDUCATION
SERVICES
EDUCATIFS**



**ENSEIGNEMENT TECHNIQUE
TECHNICAL TRAINING**

Monique Duval ☎ 44.60
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Technical course

**Presenting data
with Oracle Graphics V2**

Oracle U.K.

2 days - November 1-2, 1994

Oracle Graphics is a tool for creating graphical, dynamic, data visualisation applications. It enables you to design sophisticated charts and displays based on information stored in the database or other information sources. Oracle Graphics also provides extensive procedural capabilities using the PL/SQL programming language for building interactive displays.

Contents summary :

- Components of Oracle Graphics
- Chart Terminology
- Creating a simple display
- Methods of retrieving data
- The chart template editor
- Modifying fields and axis properties
- Defining the chart
- Understanding the layout editor
- The parameter table
- Building Real world applications
- Oracle Graphics PL/SQL built-in
- Using the development environment
- Creating a chart based on User input
- Record attributes
- Integrating Oracle Graphics with other Oracle products.

Knowledge of SQL is REQUIRED. PL/SQL is NECESSARY to use the full procedural capability of Oracle Graphics. General familiarity with GUIs will be helpful.

ENSEIGNEMENT GÉNÉRAL

Tél. 5811

Jeudi 6 octobre

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

Attention : il n'y aura pas de séance le 20 octobre 1994.

NOTE: The layout editor is common to all CDE tools – Graphics, Forms and Report. In that sense, this course is a good introduction to more sophisticated products such as Forms 4, for which a course is scheduled later this year.

If you wish to apply for this course, please fill in the usual "Application for training" form which can be obtained from your Divisional secretariat or your Divisional Training Officer (DTO).

A financial contribution of CHF 400,- per person will be charged to the Divisions.

Si vous désirez consulter les descriptions détaillées des cours ou connaître les dates des prochaines sessions et le nombre de places disponibles, vous pouvez maintenant interroger le fichier à disposition sur le serveur Novell de la division PE, accessible à partir tant d'un Macintosh que d'un PC équipé de FileMaker.

Ce fichier se trouve :

Zone	PE Division
Serveur	SRV1_PE (accès en GUEST)
Disque	COM
Folder	TRAINING
Fichier	CoursET.fm (accès sans mot de passe)

If you want to consult the detailed descriptions of the courses or to know the dates of the next sessions and the number of places available, you may now connect yourself to a file on the Novell server of PE Division which is reachable from a Macintosh or from a PC with FileMaker installed.

This file is located on

Zone	PE Division
Server	SRV1_PE (access as GUEST)
Disk	COM
Folder	TRAINING
File	CoursET.fm (no password needed)