

SEMINARS

SEMINAIRES

Tuesday 28 April

TECHNICAL PRESENTATION

at 14.00 hrs – AT Auditorium
bldg 30, 7th floor

Serco Ltd (GB) will talk about maintenance of internal computer networks and general principles of task management contracting. Duration: 40 min. + questions. The story begins with a brief history of Serco which goes back to its origins as RCA Photophone serving the UK's cinema sound system industry and goes on to discuss the principal products now offered by the company, namely : Facility Management, Project Management, Systems Engineering. A number of contract examples are then presented and aspects of contracting out are discussed such as single point of contact, accountability, performance monitoring and control and flexibility. The presentation concludes with a look at the work of associated companies within Serco Group and a summary of the Serco approach to task management contracting. This presentation will be of particular interest to managers with responsibility for the management of facilities, support services or computer/technical operations and maintenance.

Language : English

Information : M. Diraison / FI / 4585

Wednesday 29 April

TECHNICAL PRESENTATION

09.30–11.15 hrs – AT Auditorium
bldg 30, 7th floor

Hewlett-Packard's PC computer aided test products and strategy

by Georges STANLEY / Hewlett-Packard,
European Marketing Center, Amsterdam

Today, 60–70 % of new CAT systems (Computer Aided Test) are PC focussed. Three new PC Windows products will be demonstrated and discussed. In addition, we will talk about HP's hardware/software strategy for the next five years.

09.30 HP's Computer Aided Test (CAT) Strategy

10.10 HP PC Software for CAT

10.30 Demonstration HP Instrument Tools for Windows

Language : English

Information : M. Diraison / FI / 4585

Wednesday 29 April

PRESENTATION

10.00–12.00 hrs – CN Auditorium
bldg 31 / 3–005

Omni Ray, Motorola, PEP : VMEbus News

by N. HAUSER / PEP & G. GUZIELSKI / Motorola

Omni Ray, Motorola, PEP invite you to a technical presentation about

- News from the Factory
- High-performance low-price MC68ECXXX products
- Omni Ray: your VME partner

PEP:

- VME + Autobahn with 400 Mbytes/s
- VME + Intelligent Distributed I/O using Profibus network
- VME + SPS under OS9, C, and GRAFCET

MOTOROLA:

High performance industrial I/O with MC68040

Next generation of RISC family

If you wish to discuss special project questions with one of the above companies in the afternoon, please call Mr Wohlgemuth at (01) 835 2111 for an appointment.

Language : English

Mercredi 29 avril

SEMINAIRE SL

à 10.30 h – Amphithéâtre SL
bât. 864/1D02

Présentation du vidéo-reportage

Berlin – EPAC 1992 – Impressions et souvenirs

par J. BORER / CERN-SL

Impressions pour ceux qui n'étaient pas à Berlin et souvenirs pour les autres.

Durée 1.30 h

Langue : anglais

Mercredi 29 avril

SEMINAIRE PS

à 11.00 h – Amphithéâtre PS
bât. 6/2–024

Système de contrôle commun pour les accélérateurs du CERN

Application au complexe PS

par Ch. SERRE

Un système de contrôle commun aux accélérateurs du CERN (Divisions PS et SL) a été défini pour remplacer les systèmes actuels devenus périmés et nécessitant un complet rajeunissement. Cette définition a été réalisée par des groupes de travail communs aux divisions PS et SL, après consultation des utilisateurs des systèmes de contrôle actuels. La présentation portera sur les conclusions techniques de cette collaboration pour l'architecture du système, ainsi que pour une approche commune des programmes d'application; elle se terminera par un exposé de l'implantation de ce système de contrôle dans le cadre du complexe des accélérateurs PS.

Wednesday 29 April

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Non-perturbative effects in 2D sigma models and 4D gauge theories.

A Z(N) toron approach

by A. ZHITNITSKY / CERN and Institute of Nuclear Physics, Novosibirsk, Russia

A lot of different problems such as: fractional topological charge, chiral symmetry breaking, Z(N) symmetry, theta dependence, confinement, the U(1) problem and all that, are discussed in the 2D CP(N-1) model and 4D gauge theories. A novel class of self-dual solutions (so-called torons) with finite action is considered. The contribution of toron configurations to chiral condensates in supersymmetric models is calculated and is in agreement with well-known results (Witten Index, large N expansion, and so on....).

Mercredi 29 avril

PRESENTATION TECHNIQUE

à 14.00 h – bât. 17/1-007

Tekelec-Airtronic (F) présente les composants Altéra (USA), les réseaux logiques programmables :

1. les familles 'CLASSICS', 5000, 7000
2. les outils de développement sur PC, sur stations

Langue : français

Renseignements : M. Diraison / FI / 4585

Thursday 30 April

PRESENTATION

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

The Dolphin/IBZ mass storage management system

The solution for administration of data in heterogeneous networks

The Challenge : to provide an unlimited storage solution to a heterogenous network with a continously growing demand for capacity and bandwidth. To ensure a high quality protection for all data stored in a network, data which is representing a more and more significant value to large organisations and enterprises. To centralize and minimize unproductive and expensive administration work like backup and archiving. To maintain a fast and easy access to all data stored within the network.

The Solution : based on a Magnetic Optical Disk Library, and using powerful utilities for backup, archiving and file migration the Dolphin/IBZ Mass Storage Management System provides the ideal solution for administration of data in heterogenous networks.

The Application :

- *Powerful and flexible utilities for central and decentralized administration of data like Backup, Archiving and Automatic File Migration.*
- *Acient/server concept supporting many types of computers and operating systems.*
- *Industry standard User Interfaces for all UNIX platforms.*

The Media

- *Magneto Optical Disk vs. other technologies.*
- *Covering WORM requirements with multifunction drives.*
- *Automatic Library Systems*

The Server

- *A unique scalability to meet growing demands.*
- *An advanced virtual disk system for optimized performance and versatility.*
- *A high level of fault tolerance and durability for uninterrupted and stable operation.*

Information : K.M. Vognild / Dolphin Server Technology, (022) 64 51 64

Thursday 30 April

SL SEMINAR

at 11.00 hrs – SL Auditorium
bldg 864/1D02

The SPS as LHC injector

by D. BOUSSARD & J. GAREYTE

The main parameters of the LHC will be reviewed, together with the reasons which lead to these choices. Then the consequences for the injector chain will be discussed, with emphasis on problems related to the SPS.

Jeudi 7 mai

PRESENTATION TECHNIQUE

09.30–12.00 h & 14.00–16.00 h – bât. 54/3-035

Tepro (PL) fabrique depuis 1970 des pompes et des systèmes à vide pour les laboratoires scientifiques et les industries électroniques.

Langue : français

Renseignements : M. Diraison / FI / 4585

Jeudi 7 mai

PRESENTATION

à 10.00 h – Amphithéâtre CN
bât. 3/3-005

BusinessObjects – Présentation générale avec démonstration

par Alain Tricard / Business Manager,
BusinessObjects, Paris

Langue : français

Renseignements : Sue Foffano

POUR / FOR INFORMATION

Université de Genève

Département de Physique Nucléaire et Corpusculaire
Ecole de Physique, 24, quai Ernest-Ansermet, 1211
Genève 4
Tél. 7026273 ou 7026369

Monday 27 April

PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Stueckelberg Auditorium

Heavy scintillators for high-energy physics experiments

by P. KOZMA / Czechoslovak Academy of Sciences

Progress and prospects in the R&D of heavy scintillation crystals for high-energy physics experiments are discussed. Possibilities for manufacturing of BaF², CeF³, GSO, Perovskite and Garnet Crystals as well as lead glasses in Czechoslovakia are presented. Optical properties, radiation hardness, uniformity, time and energy resolution of scintillators have been investigated. Properties of BaF² and BaF²+DPS are also compared. Tests of large volume crystals have been performed in beams of relativistic particles and nuclei at the JINR Dubna synchrophasotron. Applications of BaF² scintillators for gamma spectrometers, EM calorimeters and δE -E telescopes are displayed.

Monday 4 May

PARTICLE PHYSICS SEMINAR

at 16.15 hrs – Stueckelberg Auditorium

Understanding the 'Centauro' cosmic ray events in terms of a phase transition to quark matter

by A. D. PANAGIOTOU / Athens University

A phenomenological model for the production of 'Centauro'-type cosmic ray events, in terms of a phase transition to Quark Matter is developed. The model is then used to estimate, in a self consistent way, several thermodynamic quantities, characterizing the observed 'Centauro' events. We describe also a typical 'Centauro' event, possibly produced in the fragmentation rapidity of a Au+Au central collision at $\sqrt{s} = 200 \cdot A$ GeV. We suggest several characteristic signatures, based on the released photonic and hadronic contents (energy and multiplicity) and the formation of strange matter globs (strangelets).

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 5811

Jeudi 30 avril

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

ACADEMIC TRAINING

Tel. 2844

4 & 5 May

11.00 to 12.00 hrs – Auditorium

High energy accelerators in medicine

by P. MANDRILLON / Laboratoire du Cyclotron,
Nice, France

The treatment of tumours with charged particles, ranging from protons to 'light ions' (Carbon, Oxygen, Neon) has many advantages, but up to now has been little used because of the absence of facilities. After the successful pioneering work carried out with accelerators built for physics research, machines dedicated to this new radiotherapy are planned or already in construction. The rationale for this new radiotherapy, the high energy accelerators and the beam delivery systems are presented in these two lectures.