

bénéficiaires ou encore sur les principaux sujets traités et sur le travail effectué par les organes de la Caisse. Si les questions touchant votre caisse de pensions vous intéressent, nous vous engageons vivement à lire le rapport annuel et à participer à l'Assemblée générale annuelle dont l'ordre du jour figure ci-dessus.

The English version will be published next week.

SEMINARS SEMINAIRES

Monday 23 September

ACCELERATORS CONTROLS SEMINAR

at 14.00 hrs - Council Chamber

cdev - A Framework for Control System Independent Applications

by Chip WATSON / CEBAF

Cdev (common device) is an object-oriented framework that provides a standard interface between an application and one or more underlying control systems. Implemented as a set of C++ base classes and class libraries, cdev presents a simple device+message view of the underlying system(s). The classes are optimized for repetitive operations, including handling arrays of devices, and asynchronous monitoring with error notification. Base classes are provided for integrating new systems. The framework has **been** integrated with control systems at Jefferson Lab/CEBAF (EPICS) and SLAC, and has been proposed as a common interface within the detector and accelerator controls communities to enable portable applications. Cdev compliant applications are now becoming available, including a tel interface and several X based tools. Cdev is currently supported on SUN, HP, DEC/VMS and SGI platforms, with preliminary work done at CERN on IBM/AIX. A JAVA binding is under development, as is a portable server shell and a gateway.

Organiser: F. DIMAIO/PS/72592

Monday 23 September

PPE SEMINAR

at 16.30 hrs - Auditorium*

Measurement of $A_{\parallel}$ using Jet Charge at SLD

by Thomas JUNK / CERN-PPE

The parity-violating parameter $A_{\parallel}$, the asymmetry between the left- and right-handed couplings of the b quark to the Z^0 boson, has been measured by analyzing the polarized forward-backward asymmetry of b quarks in $e^+e^- \rightarrow Z^0 \rightarrow b\bar{b}$. Data were taken at the Stanford Linear Accelerator Center (SLAC), with the Stanford Large Detector (SLD), which records the products of e^+e^- interactions at a center of mass energy $\sqrt{s} = 91.2 \text{ GeV}/c^2$ at the SLAC Linear Collider (SLC). The SLC/SLD experimental apparatus provides a unique and ideal environment for measuring electroweak asymmetries. Heavy flavor decays of the Z^0 were identified inclusively by taking advantage of the long lifetime of B hadrons, the small, stable SLC beam spot, and SLD's precise tracking detectors. The sign of the flight direction of the b quark in tagged events was determined using a momentum-weighted jet charge variable, in which the efficiency of correctly signing events was extracted from the momentum-weighted charge in the two hemispheres of each

event. From the 1994-1995 sample of 3.6 pb^{-1} , having a luminosity-weighted average e^- polarization of 77.2 %, and the 1993 sample of 1.8 pb^{-1} , having a luminosity-weighted polarization of 63.1%, the asymmetry parameter obtained is $A_{\parallel} = 0.843 \pm 0.046 \text{ (stat.)} \pm 0.051 \text{ (syst.)}$.

* Tea & coffee will be served at 16.00 hrs.

Tuesday 24 September

TECHNICAL PRESENTATION

at 09.30 hrs - CN Auditorium, bldg 31/3-004-5

How to make your Object Oriented Project a Success?

by Paul VAUTHEY / C.E.O. of SOLERI Europe,
José-Luis RON / Consultant of Object Conception
Jean-François CREPEAU, Consultant of Object Technologie

An Object-Oriented project needs to have a design methodology, and a workbench to make and assemble software parts.

SOLERI presents (in French) its parts approach as well as market standards like OMT, C++ and SMALLTALK with products from PLATINUM, PARCPLACE and IBM. Examples of recent use of these tools will be presented at this meeting.

- Object Technology and Parts Approach (-30 mins)
- Parts Visual Connection (-30 mins) Visual Smalltalk (PARCPLACE-DIGITALK), Visual Age C++ (IBM)
- Parts Design (-30 mins) , OMT/2 with Paradigm Plus (PLATINUM Technology)
- Parts Development (-30 mins) Visual Smalltalk (PARCPLACE-DIGITALK), Visual Age C++ (IBM)
- Object-Oriented Development and the WEB (-30 mins) Visual Wave (PARCPLACE-DIGITALK)
- SOLERI experience on important European Object Oriented Projects (-15 mins)

Organiser : S. Cannon I CN 150

Wednesday 25 September

EPICS SEMINAR

at 09.00 hrs - PS Auditorium buldin 6 2-024

EPICS presentation

by Bob DALESIO / Los Alamos

The Experimental Physics and Industrial Control System (EPICS) is an architecture toolkit for building scalable control systems. It was originally developed at LANL, starting in 1988 and is now a collaborative project between several D.O.E. labs and industry in the U.S.A., as well as with partners in Europe (e.g. at Saclay, GANIL, DESY). EPICS is being used at several tens of sites with applications ranging from a single crate up to a system with over 100 crates, 30 workstations, 30000 channels. It is used to control CEBAF, the new APS accelerator at Argonne and it has been

intended to upgrade it to control the S.S.C. before that project was cancelled. It will be used for the re-engineered experiments CDF and DO at FERMI lab and for the BaBar experiment at SLAC.

In the morning a general overview will be given by B. Dalesio. It will be followed by presentations of EPICS tools given by EPICS collaborators.

The afternoon will be dedicated to more detailed presentation such as installation, configuration, etc.

Bob Dalesio is one of the father of EPICS, he is currently the EPICS collaboration coordinator.

Organisers: Mathias Clausen (DESY) &

Fabien Perriollat (CERN CMS)

Wednesday 25 September

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Antimatter in the Universe?

by A. DE RÛJULA / CERN

The Universe allegedly contains lots of light (some 400 photons per ce), a little matter (a few baryons and electrons for every billion photons), some dark and mysterious substance, *and practically no antimatter* at least in our neighbourhood. This is a rather unbalanced recipe. In this talk I examine an appealing alternative to the current lore: that there be comparable amounts of matter and antimatter in our visible universe. Is this possibility tenable? I argue that, on very general grounds, the answer to this question is clear-cut. I shall also discuss future observations concerning the issue at hand.

Wednesday 25 September

COMPUTING SEMINAR

at 15.00 hrs * - CN Auditorium, bldg 31/3-004-5

Management of Object Oriented Software development

by Thomas BIRKUM PETERSEN / Computer Resources International

Computer Resources International (CRI) has conducted several projects of more than 20 manyears to develop operational systems for controlling satellites or processing space data based on an object oriented approach. These projects have clearly shown that the lifecycle is strongly influenced by the way this paradigm is interpreted, and that special care in tool selection/ administration and in engineering and management techniques have to be excersized in order to benefit from this approach.

The presentation would give a short presentation to the projects and their specific characteristics, and then proceed to discuss which problems were encountered, and the lessons which were learned.

** Please note unusual time*

Organiser : G.Folger / CN

Wednesday 25 September

COMPUTING SEMINAR

at 16.00 hrs - CN Auditorium, bldg 31 /3-004-5

Capability Maturity Model based self assessment

by Steen JURS / Computer Resources International

Computer Resources International (CRI) has been engaged for several years in using Capability Maturity Model (CMM) as an instrument to improve software engineering practices through a self assessment scheme.

Main objectives have been to improve management visibility and predictability. These are issues which particularly relate to the processes at level 2:

- Requirement management
- Planning
- Tracking
- Quality Assurance
- Configuration management
- Subcontractor management

The presentaion would discuss the Motorola version of CMM that we have used, the way we have conducted the assessment over several development sites, the results, and the recommendations that can be deduced.

Organiser : G.Folger / CN

Thursday 26 September

UMTF COMPUTING TUTORIALS

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

Portable PCs and NICE

by Alberto PACE

A set of services are available for portable computers that allow automatic installation of the operating system, communication tools, office applications, and the remote access to the CERN network using a telephone line.

Portable computers can have a unique configuration able to work in standalone mode or connected to a telephone line (including GSM portable telephones) or connected to the CERN Ethernet. All these working modes allow the user to run applications from a wide set of office applications (Excel, Word, drawing tools, etc.) and when the computer is connected to a telephone line, they give the possibility to send/receive electronic mail, navigate the Web using Netscape or the Internet explorer and connect to any unix host using the X-terminal.

The presentation will demonstrate all the possible solutions and explains how the portable computer can be setup.

La présentation sera donnée en anglais mais on répondra en français à toute question posé dans cette langue.

Thursday 26 September

SL SEMINAR

at 16.00 hrs - SL Auditorium *, Prévessin, bldg. 864

Magnetic Measurements of "classical" magnets at CERN

by D. CORNUET & P. LECLERE / CERN-SL

In order to cope with the wide variety of "classical" magnets, covering from the small pulsed quadrupoles of the LINACs up to the large SPS dipoles, a dozen of magnetic measurements stands are needed. Those stands are described with their principles in simple words. Formerly they were dedicated for special purposes. They are now developed and maintained in order to make them more general and extend their versatilities. The presentation will include two parts: the first one will describe the magnetic measurement stands for the magnets of the PS complex, the second one will describe the stands for magnets of the SPS and its transfer lines.

** Coffee and tea will be served at 15.30 hrs in front of the auditorium*

Thursday 26 September

CERN COLLOQUIUM

at 16.30 hrs - Auditorium*

Prions and brain diseases in animals and humans
by Maurizio POCCHIARI / Laboratory of Virology,
Istituto Superiore di Sanità, Roma, Italy

The spongiform encephalopathies or prion diseases affect both humans and animals. Clinically, they are characterised by behavioural abnormalities and various neurological manifestations and is inevitably fatal with a duration of 2-3 weeks to several months. The anatomical lesions are always limited to the central nervous system where accumulates a disease-specific, partially protease-resistant, amyloid protein PrP-res. PrP-res derives from a posttranslational or, most likely, a conformational modification of a cellular "normal" protein (PrP-sen), but what is responsible for it and why the affected cell starts making the pathological protein is still unknown. The spongiform encephalopathies are caused by a transmissible agent whose nature, however, is still unknown and is now the subject of great controversy.

* Tea & coffee will be served at 16.00 hrs.

Friday 27 September

SEMINAR FOR CERN GUIDES

organised by CERN Visits Service - Groupe DSU/CP

at 16.00 hrs - Auditorium

Particle accelerators for therapy

by Pierre MANDRILLON / CERN-LHC

Monday 30 September

TECHNICAL PRESENTATION

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

Human Resources Toolkit (HRT)

by Mats MOLLER & James PURVIS / CERN-AS-SU

The Human Resources Toolkit (HRT) intended to be used for accessing CERN Personnel data is currently under development in AS Division. HRT will help the divisions carry out their Human Resource management, planning and follow-up. It will have extensive report generation capabilities and an easy-to-use graphical user interface.

An overview of the project followed by a demonstration of first prototype will be given.

Monday 30 September

DETECTOR SEMINAR

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

Josephson Pixel Detector: A proposal for a new family of ultra fast radiation-hard position detectors

by Vittorio PALMIERI / University of Bern

Josephson Tunnel Junctions are in principle capable of very fast position detection due to the ultra-fast switching from the zero to the gap voltage state. This feature together with the high radiation hardness of the materials constituting the junctions (Nb and Al) and the possibility of direct interfacing to ultra-fast superconductive logic families make them interesting candidates for a new type of position detector.

The detection mechanism and a possible new approach for realising a real detector complete with integrated read-out electronics will be discussed.

Mardi 1^{er} octobre

PRÉSENTATION TECHNIQUE

09.00-17.00 h - Camion d'assistance technique,
parking bât. 252

Outillage

par FACOM SA

Langues -.français, anglais, allemand

Information : L. Abel FI-A/79561

Tuesday 1 October

WEB DOCUMENT ENGINEERING

09.00 to 10.00 hrs - Auditorium

This talk will discuss a methodical approach to the design of Web documents which are useable and maintainable. These methodologies incorporate elements of hypertext document design, human-computer interface design, and software engineering. The intended audience are persons who are responsible for the design and maintenance of large and/or complex Web-based documents. It will assume a good working knowledge of WWW and HTML.

Wednesday 2 October

HTML AND THE ART OF AUTHORING FOR WWW

09.00 to 17.30 hrs - Council Chamber

This course is intended to provide a comprehensive overview of WWW authoring concepts. The morning session will contain an introduction to the WWW page/document structure, page markup and HTML concepts, and a very fast overview of the principle HTML tagsets. Online examples will be given. The afternoon session will concentrate on the design of "good," useable, and maintainable documents. (It will be an expansion of the one-hour talk described above).

The morning talk will assume that the audience has little or no knowledge of HTML, but has used WWW. The afternoon session could be attended independently by persons with a working knowledge of HTML.

People wishing to attend must register by e-mail (subject=WWW Authoring) to perrelle@www.cern.ch before September 30.

People wishing to attend may also purchase the book "HTML and the Art of Authoring for WWW" by Bebo White, at a special discount price. You must commit for this purchase before the seminar, by e-mail to perrelle@www.cern.ch with the text: I will purchase copies of the book "HTML and the Art of Authoring for WWW".

Thursday 3 October

SL SEMINAR

at 16.00 hrs - SL Auditorium, Prévessin, bldg. 864

Accelerator Physics Issues in the Compact Linear Collider

by Gilbert GUIGNARD / CERN

Friday 4 October

TECHNICAL PRESENTATION

at 10.00 hrs - PS Auditorium, bldg 6/2-024
Software Tools for Maths and Data Analysis
Current Products and Future Directions
by Karen WALKER / Mathsoft (Mathcad)

Organiser: C. Eck/CN/74260

Vendredi 4 octobre

PRÉSENTATION TECHNIQUE

13.30 à 16.30 h - Salle de conférence bât. 13/3-003
Vannes et clapets, petit et grand diamètres, pour des applications en nucléaire cryogénie
par S. Brolin / BOUVIER DARLING

Langues : anglais, français

Information : L. Abel / FI-A /79561

**EDUCATION
SERVICES
EDUCATIFS**



Jeudi 3 octobre

ENSEIGNEMENT GENERAL

à 13.00 h - Amphithéâtre
Science pour tous
par Rafel Carreras

Reprise des séances

*Veillez prendre note qu'il n'y aura pas de séance
le jeudi 24 octobre.*

**ENSEIGNEMENT TECHNIQUE
TECHNICAL TRAINING**

Monique Duval 74460
monique_duval@macmail

Information sur les cours, dates et places disponibles sur WWW :
Information about the courses, dates and places available on WWW :
<http://www.cern.ch/Training/>

PERMANENCE BUREAUTIQUE

La première permanence bureautique aura lieu :
lundi 7 octobre 1996, Salle 23 - bar. 572
Dès 09.00 h. : vos questions
Dès 14.00h. : Nouveautés de WORD 6

ACADEMIC

TRAINING

ENSEIGNEMENT ACADEMIC

F. Benz Secretariat 3127

Information about lectures on WWW:
<http://www.cern.ch/Training/>

1996 - 1997 ACADEMIC TRAINING PROGRAMME

Ist Term

30 September - 13 December 1996

LECTURE SERIES FOR POSTGRADUATE STUDENTS

30 September, 1, 2, 3 & 4 October

11.00-12.00 hrs - Auditorium
Beyond the Standard Model
by L. IBANEZ / Univ. Autonoma de Madrid,
Spain

7, 8, 9, 10 & 11 October

11.00-12.00 hrs - Auditorium
Quantum Field Theory
by L. ALVAREZ-GAUMÉ/CERN-TH

11, 12, 13, 14 & 15 November

11.00-12.00 hrs - Auditorium
Quantum Chromodynamics
by M. NEUBERT / CERN-TH

9, 10, 11, 12 & 13 December

11.00-12.00 hrs - Auditorium
Gaseous Detectors
by H.G. FISCHER / CERN-PPE

The lectures are open to all those interested, without application.

The abstract of the lectures, as well as any change to the above information (title, dates, time, place, etc.) will be published in the CERN Bulletin, the WWW, and by Notices before each Term and for each series of lectures.

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