

REIMBURSEMENT OF EDUCATION FEES (CORRIGENDUM)

It is reminded that, in accordance with Article R A 8.07 of the Staff Regulations and Administrative Circular N° 12, a maximum of *three* claims for reimbursement can be submitted per child, per academic year.

N.B. If you have bills for July/August, they should be included in the last (or only) claim for the academic year in question.

Clarification regarding limitation of claims

Paid bills may be submitted for reimbursement to the Organization until one year after the last day of the period in which the cost was incurred (and not the period in which the payment was effected).

The periods used are the following:

1. Claims per term

		Claims admitted :				
1st term	(1 September - 31 December)	→31 December of the following year				
2nd term	(1 January - 31 March)	→31 March	"	"	"	"
3rd term	(1 April - 31 August)	→31 August	"	"	"	"

2. Claims per semester

1st semester	(1 September - 31 January)	→31 March	"	"	"	"
2nd semester	(1 February - 31 August)	→31 August	"	"	"	"

3. Claim per academic year

Academic year	(1 September - 31 August)	→31 August	"	"	"	"
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If your child terminates his studies, the claim has to be submitted within one year after the last day of the ongoing *term*.

Personnel Division
Tel. 74469/72862

SEMINARS SEMINAIRES

Monday 14 October

MEETING OF THE VMEBUS INTERNATIONAL PHYSICS ASSOCIATION - VIPA

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

Organised by the ESONE/CERN VMEbus Steering Committee

The meeting will discuss the latest VIPA proposals on VMEbus for Physics Applications, soon to be published in draft form, and the underlying VME64 and VME64 Extensions standards.

In addition, the CERN Electronics Pool Advisory Committee's proposals for a single standard for modular electronics will be presented and discussed, as will the FermiLab proposals for standard software.

Speakers include Bob Downing (University of Illinois and Vice Chairman of the VITA Standards Organisation), Jaap Panman (Chairman of the CERN Electronics Pool Advisory Committee) and Jim Pangburn (FermiLab, Chairman of the newly-formed VSO software working group). VMEbus manufacturers have been invited to make brief presentations of products or plans for VIPA compatible equipment as well as to participate in all the discussions. A number of companies (CES, LeCroy, Rittal and Wiener) have already indicated that they will be present.

The formal presentations will be kept to a minimum to allow for a thorough discussion of the issues, so no strict agenda has been established, however, more information is available via the ESONE WWW site (<http://www.cern.ch/ESONE/ESONE.html>) or from Mme Catherine Moine +41 22 767 5035 (catherine.moine@cern.ch).
Chris Parkman / VIPA Co-Chairman

Monday 14 October

TECHNICAL PRESENTATION

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

The High Performance Storage System (HPSS)

by Danny TEAFF & Harry HULEN / IBM

The High Performance Storage System (HPSS) is an open system software that introduces a new era in the management of huge amounts of data produced and used by super fast computers and networks with an enormous data traffic.

HPSS has been designed and built by IBM in partnership with leading research labs and universities, it addresses the very real, very urgent high end storage capacity and performance requirements created by the exponential data explosion of the 1990's – an explosion that is projected to continue well into the next century.

The presentation will include a technical overview with relevant detail of the HPSS architecture and its installability, usability and scalability.

Overview

- Introduction
- Objectives
- Features

- Key Storage Concepts
- Server Components
- Infrastructure
- User Interfaces
- Policy
- Hardware Platforms
- Control and Data Flow

Planning

- Prerequisite Software
- Server Allocation
- Hardware Considerations
- Interface Considerations
- Storage Policy Considerations
- Sizing Considerations
- Performance Considerations

Site Configuration Examples

Organiser : S. Cannon / CN / 5036

Monday 14 October

TECHNICAL SEMINAR

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

3D: A new architecture for semiconductor radiation detectors

by Sherwood PARKER / Univ. of Hawaii

Silicon detectors as well as integrated circuits have, up to now, used planar technology with all circuit elements being fabricated in the top few percent of the semiconductor wafer. Such detectors, now planned for LHC experiments, face significant difficulties from bulk radiation damage which requires perpetual refrigeration at sub-zero temperatures or ever-increasing voltages for proper operation. Charge collection times are also somewhat longer than LHC bunch intervals.

A proposed method will be described for making detectors with 3D electrodes which penetrate through most or all of the silicon bulk. Collection distances and calculated collection times are reduced by about one order of magnitude. Depletion voltages, rather than rising to hundreds of volts as damage sets in, remain below 10 V. Current progress and some open questions will be discussed.

Tuesday 15 October

TECHNICAL SEMINAR

at 10.00 hrs – PS Conference Room, bldg 6/2-024

Fieldbuses – an introduction to the technology and how to use it

by Franz Rudolf BUNGER / Chairman Swiss National Committee TC65 of IEC and CENELEC

This seminar, which is aimed at people who wish to have an introduction to fieldbus technology, will address the following questions:

- what are fieldbuses ?
- what are they used for ?
- what are their benefits compared to traditional solutions?
- what are the potential pitfalls in using them ?
- why should one make a restricted choice from the many available alternatives ?

Time will be reserved at the end of the seminar for a short discussion on the recommendations of the CERN working group on fieldbuses.

Tuesday 15 October

TECHNICAL PRESENTATION

at 14.00 hrs - PPE Conference room, bldg 4/ S-013

Crate Remote Control via CAN-bus Interface.

by Manfred PLEIN / W-IE-NE-R & Urs VOGT / ELCOTRON

W-IE-NE-R and ELCOTRON, suppliers of Crate systems at CERN (NIM/Camac, Fastbus and VMEbus), will give an overview of the progress of the Crate Remote Control via CAN-bus Interface.

Due to the enlargement of the electronic set-up in modern experiments the crate remote control as a part of the slow-control system becomes more and more important.

Based on the development of the W-IE-NE-R u-processor controlled intelligent fan-tray-units which can be equipped with the W-IE-NE-R CAN bus interface this remote control can be integrated within an CAN fieldbus system.

Up to 126 crates can be controlled within a net. In addition to the remote on/off and SYSRES (VME) the user can control and program remotely every crate parameter via interface as:

- Crate Identification
- All voltages and currents
- Over-undervoltage trip off points
- Current limit adjustment to lower levels as 100% for module test procedures
- And so on

Organiser: Bruno Allongue / ECP-ESS / 78071

Wednesday 16 October

SEMINAR FOR CERN GUIDES

organized by CERN Visits Service - Groupe DSU/CP

at 16.00 hours – Auditorium

The Bubble Chamber and its Contribution to Particle Physics

by Gert HARIGEL / CERN

Following its invention in 1953 by Donald Glaser, the bubble chamber provided important technological, sociological and pedagogical legacies, in addition to profoundly influencing the development of particle physics during the 20 years or more when bubble chambers were the dominant detectors. The aim of the seminar for CERN guides is to outline the evolution and impact of bubble chambers by following the parallel threads of selected technological developments (huge cryogenic plants, giant superconducting magnets, precision optics, holography semi-automatic measuring machines, etc.) and of some of the physics discoveries made using them. Bubble chamber photographs of particle interactions are still unsurpassed for explaining to laypersons the physics behind our experiments.

Monday 21 October

UMTF COMPUTING TUTORIAL

14.00-16.00 hrs – CN Auditorium, bldg 31/3-004-5

Visual Basic and C++

by Alberto PACE

An introduction for beginners, based on a live demonstration of Visual Basic and Visual C++, will be made to show the possibilities of 32-bit software development for the Windows

NT and Windows 95 platforms. The demo will try to include issues on user interface design, database connectivity, client server programming and OLE automation concepts. This tutorial is a repetition of the tutorial that was given in 27 June.

Wednesday 23 October

LHC COMPUTING BOARD

at 11.00 hrs – Council Chamber

Open session

11.00-11.30 RD24 Status Report: Application of the scalable coherent interface to data acquisition at LHC (LBL–CERN–RAL–Oslo–IFIC & Polytechnique Univ. Valencia–DEC Joint Project at CERN–Dolphin SCI Tech. A.S. Oslo; LHCC 96-33/LCB Status Report RD24; H. Muller).

Closed session

at 14.00 hrs – 6th floor Conference Room
(Main Building, Bldg. 60)

Thursday 24 October

SL SEMINAR

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

Optics for LEP 2

by Malika MEDDAHI / CERN

To operate LEP at high energies, changes to the geometrical and optical configurations are necessary. In particular the layout of the experimental insertions has to be modified to

provide the required optical parameters with the available strengths. Furthermore, in order to reach the desired luminosity performance, high focussing, low emittance lattices are developed for LEP 2.

In this seminar the modifications will be shown and possible consequences are discussed. The reasons for the different flavours of the low emittance optics which have been under consideration are explained and the advantages, disadvantages and the experience with these optics are presented.

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

POUR INFORMATION / FOR INFORMATION

LAPP

LABORATOIRE D'ANNECY
DE PHYSIQUE DES PARTICULES
Chemin Bellevue
F – 74000 Annecy-le-Vieux

Friday 18 October

at 14.00 hrs – LAPP Auditorium

Recent results on Rb/Rc from LEP/SLC

by Ian Richard TOMALIN / CERN

EDUCATION SERVICES EDUCATIFS



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/>

Jeudi 17 octobre

ENSEIGNEMENT GENERAL

à 13.00 h - Amphithéâtre

Science pour tous

par Rafel Carreras

Reprise des séances

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