

Composition du Conseil d'administration depuis le 1er janvier 1992
Membership of the Governing Board since 1 January 1992

Membres/Members	Nommés par/Appointed by	Suppléants/Alternates
Président/Chairman : P. Levaux	Conseil/Council	M. Gigliarelli Fiumi
Vice-président/ Vice-Chairman : G. Maurin	élus/elected	F. Ranjard
Vice-président/ Vice-Chairman : W.C. Middelkoop	Directeur général/ Director-General	H. Weber
J. Vernet	Conseil/Council	M.O. Ottosson
A.J. Naudi	Directeur général/ Director-General	F. Cliff
G. Bachmann	Directeur général ESO/ Director-General ESO	K. Banse
M. Borghini	Association du personnel/ Staff Association	B. Szeless
L. Henny	élus/elected	E. Chiaveri
M. Doran	élus/elected	C. Bovet
R. Mohr	élus/elected	E. Deluermoz
Observateur/Observer C.J. Zilverschoon	Conseil d'administration en accord avec l'Association du personnel/Governing Board in agreement with the Staff Association	vacant

SEMINARS SEMINAIRES

Monday 17 February

PPE SEMINAR

at 16.30 hrs – Auditorium

A Silicon Microvertex Detector for Collider B Physics : design, construction and SPS collider test

by Mike MEDINNIS / UCLA

Hadron Colliders have considerable potential for the study of B-physics, but a dedicated B-physics experiment has yet to be installed at any Hadron Collider. The P238 Collaboration proposed such a device to the SPS Committee and was granted approval to test its microvertex detector design because of its potential application at the LHC. A 40,000 channel, planar geometry detector was installed in a Roman Pot and successfully operated at 3 mm distance from the beam in LSS5 during the Winter 1990 SPS Collider run. A description of the detector and test results will be presented.

Tuesday 18 February

LEP EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

09.00 - 09.45	Report on the LEP Performance Workshop (S. Myers)
09.45 - 10.20	LEP 200 (C. Wyss)
10.20 - 10.40	Status of SLC and SLD (M. Breidenbach)
10.40 - 11.05	Coffee Break
11.05 - 11.35	Proposal for a VME based upgrade of the ALEPH readout system

Status Reports on the Experiments

11.35 - 12.05 LEP 5 (Single Bremsstrahlung Monitor)
 12.05 - 12.35 LEP 6, MODAL
 12.35 - 14.00 Lunch Break
 14.00 - 14.30 L3
 14.30 - 15.00 ALEPH
 15.00 - 15.30 DELPHI
 15.30 - 16.00 OPAL

Closed session

Tuesday 18 February, Conference Room, 6th Floor,
 Admin. Building
 to be continued on 19 February, same place.

Tuesday 18 February

PRESENTATION

at 09.30 hrs – CN Auditorium
 bldg 31/3-005

VXibus Products and Software for Real-time Engineering

Three companies with activities in the VXibus domain, will present their products at a WALK-IN technical presentation.

09.30 Welcome

09.40 *National Instruments* will give a brief introduction to VXibus, followed by a presentation of VXibus controllers and interfaces. A new NuBus-VXI/VME high speed link will also be introduced.

Following this, software control of the VXibus mainframe will be discussed.

10.40 *Kinetic Systems Corporation (KSC)* will present more than 30 new VXibus modules, including analog and digital I/O, monitors and controllers, counters/pulse generators, signal conditioners, transient recorders, ARINC 429 and MIL-STD-1553 interfaces. VXibus systems, using the above mentioned modules, will be configured with the National Instruments VXIpc 386 and VXIpc 030 embedded computers.

11.10 *Wind River Systems Europe* will present VxWorks, which is a high performance and highly portable networked, realtime operating system, incorporating a UNIX cross-development environment.

As standards firm up and different operating systems begin to share common interfaces, why is a specialised operating system needed for the realtime world?

12.30 Lunch

14.00 Continuation of demonstrations in Office Hut 600/R-008, annex to building 31

Information : C.R. : Van Der Vlugt / CN / 3511

Tuesday 18 February

PRESENTATION

at 14.00 hrs – CN Auditorium
 bldg 31/3-005

Storage Products for Workstations and PCs by TEKELEC (France)

by G. PARRA / Ingénieur Commercial, Tékelec, France
 P. COUZINET / Responsable Archivage / Sauvegarde
 Mr SKELTON / Manager of Application Engineering, NCR US
 & Mr RYSHWAY / Marketing Manager, NCR Europe

The first part of the presentation will be in French and the second part in English.

La Division Systèmes Informatiques de Tékelec Airtronic présentera les produits Falco (terminaux), NCD (terminaux X) et QMS ainsi que les produits de stockage et archivage suivants :

- KENNEDY (bande 1/2 pouce)
- MDI (CD-ROM, Worm, magnéto-optique pour PC)
- Gigatape (DAT)
- Alphatronix (Jukebox magnéto-optique pour SUN et DEC)

This will be followed by a presentation by representatives of NCR on their RAID concept storage products (RAID – Redundant Array of INexpensive Discs)

Information : A. Silverman

Tuesday 18 February

TECHNICAL PRESENTATION

14.30–16.30 hrs – Technical Training Auditorium
 bldg 593, room 11

Multimedia products and developments

Special presentation by Peter COPELAND /
 Founder and chairman of the Future Media Group (UK)

Use of interactive multimedia to provide training over a wide range of subjects, an instant task support and guidance, especially for infrequent and complex technical operations.

Information : M. Diraison / FI / 4585

Language : English

Tuesday 18 February

PRESENTATION

at 15.30 hrs – Council Chamber

High Performance Technical Computing from Digital and Cray

by Peter ROSS / HPTC Marketing Manager - Digital, Engineering
 Steve ZAGAME / HPTC Marketing Manager - Digital, Europe
 Jean-Pierre THERRE / Applications Marketing - Cray, Switzerland

On 14 January, Digital Equipment Corporation and Cray Research announced a strategic agreement between the two leaders in High Performance Technical Computing whereby Digital will become the exclusive sales channel for the entry level Cray YMP-EL.

Both Digital and Cray foresee an evolution of the High Performance Technical Computing market where a choice of Parallel Superscalar RISC Processors, Vector Computing, SIMD MPP systems, and MIMD MPP systems will co-exist in a networked computing environment.

During this presentation, Digital will present its strategy for the High Performance Technical Computing market, and Cray Research will present the Cray YMP-EL product and strategies for entry level supercomputing systems.

Information : Tor Bothner / 7095 / beep 5555 / bothner@cernvax

Wednesday 19 February

PRESENTATION

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

Evolution of Database Technology at Oracle

by John SPIERS / Oracle, UK

The talk will review Oracle's strategic directions and product strategy with particular reference to engineering and scientific applications. Database directions include potential extensions to the relational model which could provide the basis of Oracle's next generation of 'object oriented' systems. The new range of Graphical User Interface and multi-media tools will be discussed, together with Oracle's approach to integrated system (CASE) development tools. Improvements to the interfaces with procedural languages will be described.

Wednesday 19 February

PS SEMINAR

at 11.00 hrs – PS Auditorium
bldg 6, 2-024

Inertial confinement fusion with volume ignition

by H. HORA / CERN-PS

For inertial fusion energy with heavy ion beam or laser drivers, usually the spark ignition of the fusion fuel pellet is considered. In view of the complex and sensible conditions of temperature and density profiles, it may be easier to use the volume ignition with ideal adiabatic compression as e.g. realized with lasers in Osaka arriving at the highest fusion gains. Detailed computations are presented showing that total gains similar to the spark ignition of DT with 10 MJ laser pulses are achieved as with spark ignition. Extensions to D-He (3) and to H-B (11) are given where the high efficiency of ion beam drivers may reach economic conditions.

Wednesday 19 February

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Ashtekar's variables : a new approach to canonical (quantum) gravity

by Hermann NICOLAI / Hamburg University & CERN

Ashtekar's discovery in 1986 of new phase space variables for gravity has given fresh impetus to research in canonical (quantum) gravity. This result and more recent developments are reviewed at an introductory level.

Wednesday 19 February

COMPUTING SEMINAR

at 16.00 hrs – CN Auditorium
bldg 31/3-005

Where are we now with euro-networking?

by F. FLUCKIGER / CERN-CN/CS

EARN, RARE, EASInet, EUnet, HEPnet, and also Eureka, COSINE, CEC, all are acronyms that are attached to the complicated European scene of academic and research networking. And Ebone, ECFRN, RIPE are others invented more recently. What are they? Why is it so complicated? And also, what influence had industrial policies of the development of our networks? The seminar will try to answer these questions.

Thursday 20 February

PRESENTATION

at 14.30 hrs – AT Auditorium
bldg 30, 7th floor

High-performance storage solutions by maximum strategy

by Blake HOMAN / Maximum Strategy Inc.

Maximum Strategy provides high-performance storage solutions using field-proven disk technology, based on RAID-3 architectures. The storage servers are available with VME, MicroChannel or HIPPI interfaces, with capacities up to 345 GBytes, and transfer rates ranging from 8 to 144 MBytes/second.

Information : Les Robertson / CN

Friday 21 February

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

What is m_u ?

by Daniel WYLER / Theoretische Physik,
Universitat Zurich

I discuss the determination of the light quark mass from the chiral Lagrangian. There is an ambiguity at second order in the chiral expansion which has been used to justify a zero up-quark mass. It is shown how to overcome this ambiguity within a $(1/mc)$ expansion. The result implies that the up-quark mass is safely away from zero.

Monday 24 February

AC SEMINAR

at 11.00 hrs – AT Auditorium
bldg 30, 7th floor

Description and Status Report of the Supercollider

by John L. WARREN / SSCL – Dallas, Texas

General description of the SSC Laboratory, planning for the collider rings and the injector complex. Photographs of the construction.

Wednesday 26 February

PRESENTATION

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

Use of Oracle at British Airways

by Neil Sidwell

Information : G. Moorhead

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL Tél. 5811

Jeudi 20 février

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

ACADEMIC TRAINING Tel. 2844

Lecture series for postgraduate students

17, 19 & 20 February

10.45 to 12.00 hrs – Auditorium

18 February

10.45 to 12.00 hrs – Council Chamber

Introduction to accelerators

17.2. Linear accelerators (by guest speaker M. Weiss)

18.2. RF bunches and buckets

19.2. Electrons

20.2. Instabilities

by E.J.N WILSON / CERN-PS



ENSEIGNEMENT TECHNIQUE TECHNICAL TRAINING

☎ 44.60

eductech@cernvm

Technical seminar

Friday March 13 - 9 h.00-12 h.00

BOUNDARY-SCAN TEST (BST)

by H. BLEEKER, Philips BST Group

The present way of testing Printed Circuit Boards (PCBs) by means of bed-of-nails fixtures has reached its limit of feasibility. This is caused by the miniaturization of PCBs and the application of complex ICs such as ASICs.

Boundary-Scan Test technology is a new approach to PCB testing. It offers access to the internals of electronic circuits by means of a test bus which may consist of merely four wires. The implementation of the new test technology requires an extra investment in chip design. BST is therefore more an integral management approach rather than the introduction of just a new design technology.

The presentation will address the following points : Technology changes - principle of the standard - case study - impact on product life cycle - impact on product quality and reliability - product overview (test preparation and test equipment).

As the number of participants is limited, those who would like to follow this seminar should register themselves by e-mail (eductech@cernvm) or by using the coupon below.

No fee will be charged to the division.

To : Technical Training Secretariat

I would like to participate in the **Boundary-Scan Test** seminar

Name & First name :

Div : Date :