

65e anniversaire de

Georges CHARPAK

65th Birthday of

A l'occasion du 65e anniversaire de Georges CHARPAK et de son départ à la retraite, le Directeur général et la Division EP vous invitent à un symposium en son honneur.

Ce symposium aura lieu

**lundi 30 octobre à 14.30 heures
à l'Amphithéâtre**

Président de séance / *Chairman*

Ouverture / *opening address*

L. Lederman

J. Saudinos

E. Uggerhoj

R. Garwin

On the occasion of the 65th Birthday of Georges CHARPAK and of his retirement, the Director-General and the EP Division invite you to a symposium in his honour.

The symposium will be held

**Monday 30 October at 14.30 hrs
Auditorium**

P. Lehmann

Carlo Rubbia

Message de/from V. Weisskopf

Superstrings need sealing wax

Quelques applications des détecteurs gazeux
à la médecine et à la biologie

New steps in the channeling of relativistic
particles

Remarks from the non-physical world

Monday 30 October

SPECIAL PS SEMINAR

at 14.30 hrs – PS Auditorium
bldg 6, 2-024

Plans for a B-factory at Cornell

by M. TIGNER

Design considerations, technical problems and supporting R&D will be discussed.

Tuesday 31 October

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

The measurement of quark couplings in B decays

by Henning SCHROEDER / DESY

Using the ARGUS detector at the e^+e^- storage ring DORIS II at DESY, new results on B decays have been obtained which are sensitive to the KM matrix elements V_{cb} , V_{td} and V_{ub} . In particular, $b \rightarrow u$.

transitions are observed by studying the endpoint of the inclusive lepton spectrum where a significant excess of events is found beyond the kinematical limit for $b \rightarrow c$ decays.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 1 November

DD SEMINAR

10.00 to 10.45 hrs – DD Auditorium
bldg 31, 3-005

SPARC technology and evolution

by B. CATANZARO & M. BARON / SPARC
Technology

SPARC is a Scalable RISC architecture developed by SUN Microsystems from the Berkeley RISC I project. In order to demonstrate the range of scalability of this architecture, various SPARC implementations will be discussed. SPARC evolution from 15 MHz / 10 MIPS CMOS gate array implementations to the 80 MHz Bipolar ECL will be

presented. SPARC architectural features for developing high performance systems for a host of applications including real-time, embedded, AI, and multiprocessor systems will be outlined. Special attention will be given to SPARC system design considerations and to SPARC system development tools such as the SPARC simulator, compiler technology, and debugging tools.

Wednesday 1 November

DD SEMINAR

11.00 to 12.00 hrs – DD Auditorium
bldg 31, 3-005

80 MHz bipolar ECL SPARC

by A. AGRAWAL / SUN Microsystems

This talk will concentrate on the first single chip 80 MHz ECL 32-bit SPARC implementation. The ECL SPARC is a joint development between Sun and Bipolar Integrated Technology, Inc. A detailed discussion of chip features including the Integer Unit, Pipeline Architecture, cache tradeoffs, system design considerations, plus other architectural features will be given. The discussion will also focus on the BIT SPARC compatible ECL Floating Point Controller. The VLSI design methodology will also be discussed.

Wednesday 1 November*

EF SEMINAR

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

Radiation damage studies of plastic scintillators and plastic scintillating fibres

by Stan MAJEWSKI / University of Florida,
Gainesville

After a discussion of our present level of understanding of radiation damage in plastic scintillators, recent successful attempts to improve the situation will be reviewed. A large increase in radiation resistance has been achieved shifting the emitted scintillation light towards longer wavelengths; preliminary data from the new studies will be presented, both for bulk scintillators and for plastic fibres.

* Please note that date has been changed !

Wednesday 1 November

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Weak decays on the lattice

by Guido MARTINELLI / Università di Roma
'La Sapienza'

The present status of lattice studies of weak decay matrix elements is reviewed. The more recent developments in the calculation of the kaon B

parameter, the $\Delta I = 1/2$ rule and ϵ'/ϵ will be reported, together with some new results on D-semileptonic decays. A critical discussion of the possibility of studying the B meson dynamics on the lattice (f_B and BB mixing, $B \rightarrow \pi l \nu$, $B \rightarrow \rho l \nu$) will also be presented.

Wednesday 1 November

COMPUTER SEMINAR

at 16.00 hrs – Auditorium*

SuperStorage

by Robert D. COWLES / Cornell University,
USA

'SuperStorage' is a concept that comprises archive storage of large data files and the delivery of that data over high bandwidth interfaces to applications running on supercomputers. Cornell Information Technologies have been examining various alternative platforms that can act as a base for current implementations and can take advantage of rapid advances in network bandwidth and storage costs. The approach selected keeps initial costs to a minimum, provides base function, and allows a reassessment of direction in 9-12 months.

Bob Cowles received a BS in Physics from the University of Kansas in 1969, and a MS in Computer Science from Cornell University in 1971. Since 1973, he has worked for the computer centre at Cornell. Currently, he is an Assistant Director for Technologies, charged with developing the long term plan for technologies used in support of applications and services at Cornell.

* Tea & coffee will be served at 15.30 hrs

Thursday 2 November

TECHNICAL PRESENTATION

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

SUN SPARC Architecture

by B. CATANZARO, M. BARON &
R. GANDARON / SUN Microsystems

- a) SUN's open system architecture philosophy/licensing
- b) SPARC program overview and status
 - Implementation and evolution
 - SPARCstation overview
 - SES workbench-system level performance analyser
- c) Application software environment

Thursday 2 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Perspectives for a Hadron Collider in the LEP tunnel

by C. RUBBIA / Director-General, CERN

Closed-circuit transmission to : Council Chamber,
LEP Auditorium, PS Auditorium, SPS Auditorium.

* Tea & coffee will be served at 16.00 hrs in the Salle
des Pas perdus.

Monday 6 November

EF SEMINAR

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

**The DELPHI TPC : construction, working
parameters, performance, and first results**

by Dimitri DELIKARIS / CERN-EF

*The DELPHI TPC is now working to design
specification at LEP. The TPC construction and
performance will be reviewed in detail, and the first
results from the recent LEP run will be presented.*

Monday 6 November

DD SEMINAR

at 16.00 hrs – DD Auditorium
bldg 31, 3-005

IBM and SGML

by Sharon C. ADLER / IBM Publishing
Systems Business Unit

*Sharon Adler will speak on the commitment at IBM
to delivering products designed to support
International Standards, particularly SGML. She
will discuss, in general terms, product requirements,
possible implementations, and trends and directions
in this area. Particular attention will be paid to the
current set of SGML products offered by IBM.*

Tuesday 7 November

LEP EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – Auditorium

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|-------------|---|
| 09.00-09.20 | Introductory remarks
C. Rubbia |
| 09.20-10.20 | Status of LEP
E. Picasso, A. Hofmann, S. Myers |
| 10.20-10.40 | Future programme of SLC
R.E. Taylor |
| 10.40-11.00 | Coffee break |

Reports from experiments on the first physics run

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|-------------|--------|
| 11.00-11.30 | L3 |
| 11.30-12.00 | ALEPH |
| 12.00-12.30 | DELPHI |

12.30-13.00 OPAL

Closed session

at 14.00 hrs – Conference Room 6th floor

Tuesday 7 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

**New particle searches in Z decays using the
Mark II at the SLC**

by R. VAN KOOTEN / SLAC

Jeudi 9 & vendredi 10 novembre

FORUM DU LOGICIEL DE DESSIN ASSISTÉ PAR ORDINATEUR AUTOCAD

at 09.30 h – Salle du Conseil

9 novembre

Matin : Président H. Wenninger

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|-------|-----------------------------|--|
| 09.30 | Introduction | C. Hauviller |
| 09.45 | AutoCad au CERN | M. Price |
| 10.00 | Les origines d'AutoCad | R. Kuenzli
(Co-auteur
d'AutoCad) |
| 10.20 | Café (Salle des Pas perdus) | |
| 10.40 | Une introduction à AutoCad | M. Bert
(Afitec) |
| 12.00 | Fin de la session | |

Après-midi : Président M. Bert

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|-------|--|---|
| 14.00 | Démonstration d'utilisations
d'AutoCad au CERN (par
ex. : mécanique, électricité,
poster de présentation) | 8 Cernois,
utilisateurs
d'AutoCad |
| 15:20 | Café (Salle des Pas Perdus) | |
| 15:40 | Suite des démonstrations | |
| 16:00 | Formation d' AutoCad Animé | H. Alleyn |
| 17:00 | Fin de la session | |

10 novembre

Matin : Président A. Poncet

- | | | |
|-------|--|--|
| 09.30 | La station AutoCad : Guide
pour débutants | J.-P. Fabre |
| 09.50 | Bibliothèques utilitaires | M. Mayer |
| 10.05 | Gestionnaires de fichiers | J. Pearce |
| 10.20 | Conditions d'achat CERN | G. Turcato |
| 10.30 | Café (Salle des Pas perdus) | |
| 10.50 | Démonstrations de nouveautés | le représen-
tant officiel
d'AutoCad |
| 12.00 | Fin de la session | |
| 14.00 | Démonstration des applications
d'AutoCad par des utilisateurs
CERN et autres | |
| 17.00 | Clôture du forum | |

*En parallèle avec le forum : exposition de matériels et
logiciels proposés par différents fournisseurs.*

Renseignements : J.-P. Fabre / EF / 2083

Friday 10 November*

EF SEMINAR

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

The ALEPH TPC : gas system

by Ivan LEHRAUS / CERN-EF

* Please note that date has been advanced !

TRAINING AND EDUCATION ENSEIGNEMENT

TRAINING & EDUCATION ENSEIGNEMENT

TECHNICAL TRAINING Tel. 4460

REMINDER

A 2-day introductory course to TOSCA will take place during the week 6-10 November. There are still some places available.

Persons interested should contact the Technical Training Secretariat (tel. 4460) as soon as possible.

ENSEIGNEMENT GENERAL Tél. 2844-5811

Jeu-di 2 novembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

INFORMATIONS GENERALES GENERAL INFORMATION

UTILISATEURS XILINX

Une journée technique organisée par la Société RTF se déroulera le **vendredi 3 novembre** de 09.00 à 17.00 heures au bâtiment 865, 2-A04.

Programme

Présentation de nouveaux outils de développement des LCA :

- Le **Design manager** permet l'enchaînement convivial des différents programmes
- Le nouvel **ADI** : partition plus efficace de la logique dans le LCA, placement et routage plus efficaces.

Mardi 7 novembre

LES SCIENCES AUJOURD'HUI

à 20.00 h précises – Amphithéâtre

(jusqu'à environ 22.00 h)

par R. CARRERAS

Rafel Carreras, responsable du programme d'Enseignement général au CERN, commentera et expliquera un choix d'articles parus récemment dans des revues scientifiques, et qui couvrent l'ensemble des sciences physiques et biologiques ainsi que certains aspects des relations science-société. Une attention particulière est portée au langage et aux notions utilisés afin que les explications et les commentaires soient accessibles aux personnes n'ayant pas de formation scientifique.

Entrée libre

(Please note that the lecture will be given in FRENCH)

Service des Relations Publiques
Tél. 2722

ENSEIGNEMENT ACADEMIQUE Tél. 2844-3364

2 & 3 November

11.00 to 12.00 hrs – Auditorium

Global weather forecasting

by D.M. BURRIDGE / European Centre for
Medium-Range Weather Forecasts, Reading

The developments in Numerical Weather Prediction that provide the basis for Global Weather

Forecasting will be reviewed. It is intended to cover :

- *Observational data and its analysis*
- *Operational experience*
- *Plans for developing ECMWF's forecasting system*

Information : P. Baehler / DD-ED / 5016 / 13-5508
S. Broecker / DD-CS / 2390, 3002.

WORLD SCIENTIFIC PUBLISHING EXHIBITION 8 to 15 November

From 8 to 15 November, World Scientific Publishing will hold an exhibition of its latest physics books, proceedings and journals in High Energy Physics and related topics at CERN, on the ground floor of the Main Building. A representative will be present during the exhibition.