

SEMINARS SEMINAIRES

Monday 9 April

EF SEMINAR

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

Methods and tools for the design of electronic systems in the LHC era

by Mike LETHEREN / CERN

Advanced CAE tools and methods together with semi-custom ASIC technologies promise to be important in the development of electronic systems for the next generation of physics experiments. Hardware description languages can be used to formally specify and document system requirements, to explore and verify different design solutions, and to estimate system performance at each stage in a 'top-down' design method. Logic synthesis and silicon compilation boost designer productivity and at the same time improve the reliability and portability of the design. Recent CAE standards and 'frameworks' will ease the problem of porting design data between different tools. CAE and CASE methods will combine in new tools providing support for integrated design of hardware and software components of systems.

Tuesday 10 April

FIRST GENERAL MEETING ON THE pp WORKING GROUPS

at 09.00 hrs – LEP Auditorium
bldg 30, 7th floor

ECFA workshop on LHC physics

Convened by G. Altarelli, D. Denegri
and F. Pauss

09.00 Introduction
09.10 Higgs search
09.55 Heavy top
10.40 Coffee break
11.10 b-physics
11.55 Standard model processes
12.40 Simulation tools
13.00 Lunch
14.00 Events generators
14.45 Supersymmetry
15.30 Coffee break
16.00 New vector bosons
16.45 Alternative symmetry breaking and exotica
17.30 Conclusion and schedule of future activity
18.00 End

Tuesday 10 & Wednesday 11 April

TECHNICAL PRESENTATION

10.00 to 16.00 hrs – bldg 73, 2-027

Tuesday 10 : Electronic measuring and sensors

Wednesday 11 : Process Control

by SYMECORA

You are invited to visit the exhibition organized by the members of the French manufacturers association for measuring instruments and industrial control SYMECORA.

ELECTRONIC MEASURING AND SENSORS

CERN - Building 73 - Room 2-027

ON TUESDAY APRIL 10, 1990
from 10.00 to 16.00

COMPANIES	PRODUCTS
METRIX	Analog and digital multimeters, oscilloscopes.
MULTISOURCES ELECTRONIQUE	Electronic loads, IEEE programmable power supplies. AC source, IEEE programming interface. High power laboratory power supplies. OEM power supplies, UPS.
S.A.A.S. ELECTRONIQUE	DC/DC power supplies and converters for nuclear, military, space applications.
SCHLUMBERGER Div. CAPTEURS	Pressure sensors, converters, indicators. Force and displacements sensors.
SEDEME	Pressure transducers and transmitters. Force and acceleration transducers and electronic systems.
SEFELEC	Dielectric strength test generators, megohmmeters, milliohmeters, gigohmmeters, measuring bridges, test systems, low and high voltage power supplies.
THERMOCOAX	Thermocouples. Capacitive sensors for microdisplacements.
THERMO-EST	Temperature sensors and transmitters.

PROCESS CONTROL

CERN - Building 73 - Room 2-027

ON WEDNESDAY APRIL 11, 1990
from 10.00 to 16.00

COMPANIES	PRODUCTS
ADAREG	Cryogenic control valves. Magnetic safety disk with automatic opening. Microflow valves.
BOURDON	Pressure and temperature sensors. Metallic manometers, electronic portable manometer, pressure switches, deadweight testers.
CORECI	Indicators, controllers, timers : whole types. Humidity measurement devices : whole range. Monitoring units. Power control units.
DIGIMETRIE	Microcomputer aided measurements.
KROHNE	Flowmeters, level indicators, densimeters.
M.C.C.	Digital adaptable universal controllers. Programmable converters. Continuous trace recorder. Flow calculator.
SART	Mass and electromagnetic flowmeters. Level indicators and controllers. Control valves.
SFERE	Multipurpose programmable converters/transmitters for analog and digital measurements

Languages : English & French
Information : M. Diraison / FI / 4585

Tuesday 10 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Recent results from L3

by S.C.C. TING / CERN & MIT

The L3 detector is designed to measure photons, electrons and muons precisely. So far, 20000 events have been analysed. The subject of the talk includes decay of Z^0 to hadrons, to muons, electrons and photons.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 11 April

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Recent progress on the QCD calculation of weak matrix elements

by A. PICH / IFIC, Valencia

The problems associated with the analysis of strangeness changing non-leptonic weak transitions will be discussed. Starting with the standard short-distance effective Hamiltonian in terms of four-quark operators, I will describe the derivation of a low energy effective chiral weak Lagrangian for

the octet of pseudo-scalar mesons. Results will be presented for both $\Delta S = 1$ and $\Delta S = 2$ transitions.

Wednesday 18 April

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

Space duality

by H.P. NILLES / Techn. Univ. Munich

Space duality appears as a natural symmetry in string theories. In its simplest form it transforms a length R in its inverse α'/R (α' being the inverse of the string tension) and thus effectively provides us with a minimal length. We present a generalization of this symmetry to four-dimensional string theories and stress the consequences of such a symmetry for (the revision of) our understanding of space at small distances. Implications for cosmological considerations and connections with certain mathematical structures in conformal field theories are pointed out.

Thursday 19 April

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium*

Heavy flavour physics and QCD in the infinite-mass limit

J. BJORKEN / SLAC & Pisa

Isgur and Wise (Wisgur) have recently found that the formal limit $M_B, M_D \rightarrow \infty$ leads to powerful restrictions on the matrix elements of weak currents between B, B^ and D, D^* . This should help to systematize B and D decay phenomenology in a relatively model-independent way. The results of Wisgur will be reviewed and extended.*

* Tea & coffee will be served at 16.00 hrs.

Tuesday 24 April

MEETING ON DEVELOPMENTS OF ELECTRONICS FOR EXPERIMENTS

at 09.00 hrs - TH Conference Room

1. FASTBUS developments at NIKHEF for DELPHI
by J. Weber / NIKHEF
2. The DELPHI outer detector decision module - Lucifer
by A.J. Maddox / RAL
3. A programmable FASTBUS slave interface chip
by J. Christiansen / CERN
4. The read-out system of the ALEPH hadron calorimeter and muon detector
by A. Ranieri & F. Ruggieri / INFN, University of Bari

5. *News from the USA*
by F. Formenti / CERN
6. *Various*

Jeudi 26 avril

PRESENTATION TECHNIQUE

de 09.30 à 16.30 h – Amphithéâtre LEP

**ACT, Techniques de signalisation et
d'affichage (CH)**

Gamme des produits :

1. *panneau d'affichage modulaire électronique (CH), affichage multiligne (NL) pour information et publicité*
2. *tableau alphanumérique interactif (CH), moniteur interactif (CH) pour information à la carte*
3. *vitrine d'affichage (F) information parlante*
4. *panneau de signalisation et d'identification (F) pour balisage et locaux*

Langue : français

Renseignements : M. Diraison / FI / 4585

TRAINING AND EDUCATION ENSEIGNEMENT

ENGLISH - FRENCH - GERMAN

Registration for next term's language courses:

23 April - 6 July 1990

Application forms are available in Bldg. 54,
ground floor, opposite office R001

These courses are open to all persons working
on the CERN site, and to their spouses.

For all information please contact Mrs. Benz,
tel: 3127, afternoons only.

SERVICE D'APPUI LINGUISTIQUE LINGUISTIC SUPPORT SERVICE

Secrétariat (après-midi seulement) : 3127

Secretariat (afternoons only) : 3127

ANGLAIS - FRANCAIS- ALLEMAND

Les inscriptions à ces cours sont ouvertes
dès maintenant pour le prochain trimestre:

23 Avril - 6 Juillet 1990

Les formulaires d'inscription sont à votre
disposition en libre service au Bât 54,
au rez-de-chaussée, en face du bureau R001.

Ces cours s'adressent à toute personne
travaillant au CERN ainsi qu'aux conjoints.

Pour toute information veuillez contacter
Mme Benz, tel:3127, après-midi seulement.

INFORMATIONS GENERALES GENERAL INFORMATION

BULLETIN HEBDOMADAIRE

Ceci est le dernier Bulletin hebdomadaire avant
Pâques. La prochaine édition (no. 17/90) paraîtra le
vendredi 20 avril.

Les annonces pour publication dans le prochain
numéro devront parvenir à la Section des Publica-
tions ou à l'Association du Personnel (selon le cas)
avant le mardi 17 avril, à midi.

Section des Publications
Tél. 3475

WEEKLY BULLETIN

This is the last Weekly Bulletin before Easter.
The next issue (No 17/90) will appear on Friday 20
April.

Announcements for publication in the next issue
should reach the Publications Section of the Staff
Association (as appropriate) by noon on Tuesday 17
April.

Publications Section
Tel. 3475