

qu'au début de l'année. L'âge moyen des retraités est de l'ordre de 63 ans, alors que celui des veuves atteint 61,4 ans.

Le Conseil d'administration a pris note avec regrets du décès d'un bénéficiaire, M. A. Machurat.

SEMINARS SEMINAIRES

Monday 17 September

TECHNICAL PRESENTATION

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

SMS-Sprint (D) and ISDATA (D) seminar

- *Introduction SMS : Stendel Micro Systems and Isdata*
- *Sprint concept*
- *Sprint Plus : a PLD and PROM/EPROM programmer for smaller budgets*
- *Sprint Expert : the new high performance programmer*
- *Expert derivatives : SPRINT Dual and SPRINT Quad*
- *Software & software support*
- *Test vectors*
- *Calibration*
- *LOG/iC principles*
- *Comparaison of design methods, SW and HW tools*
- *Designing and programming a PLD*
- *Unequal achievements when using different design entry methods*
- *More demonstrations and wrap-up*

Languages : English & French

Information : M. Diraison / FI / 4585

Monday 17 September

PROTON SYNCHROTRON AND SYNCHRO-CYLOTRON COMMITTEE

at 14.00 hrs – Council Chamber

Open Session

*Report on the PSCC Closed Session held in Cogne
(12-15 September, Cogne V PSCC)*

A. Donnachie

Tuesday 18 September

DETECTOR R&D COMMITTEE

Open Session

at 09.00 hrs – Auditorium

1. Introduction (W. Hoogland).

2. *Proposal : 'Scintillating fibre calorimetry at the LHC' (The Spacal Collaboration : Amsterdam - Cagliari - CERN - Ecole Polytechnique - Lisbon - Naples - Paris VI - Pavia - Rio de Janeiro - San Diego - Weizmann Institute; DRDC 90-23/P1; R. Wigmans).*
3. *Proposals : 'Liquid Argon Calorimetry with LHC - performance specifications' (LAPP - BNL - CERN - Milano - LAL - Stockholm Collaboration; DRDC 90-31/PS) and 'Study of liquid argon dopants for LHC hadron calorimetry' (CERN - Stockholm Collaboration; DRDC 90-34/P6) presented by D. Fournier.*
4. *'A proposal to study a tracking/preshower detector for the LHC' (Cambridge - CERN - Dortmund - Geneva - Hamburg - Melbourne - Oslo - Oxford - Perugia - RAL - Sydney Collaboration; DRDC 90-27/P3; A.G. Clark / C. Gössling).*
5. *Proposal : 'Study of muon triggers and momentum reconstruction in a strong magnetic field for a muon detector at LHC' (CERN - Helsinki - Kiel - Madrid - Madrid - Padova - Roma - UCLA - Vienna Collaboration; DRDC 90-36/P7; K. Eggert).*
6. *Proposal : 'Integrated high-rate transition radiation detector and tracking chamber for the LHC' (BNL - CERN - Dubna - Lund - Moscow Collaboration; DRDC 90-38/P8; B. Dolgoshein).*

Closed Session

at 14.00 hrs – 6th floor Conference Room,
Administration building

Tuesday 18 September*

CN SEMINAR (TECHNICAL)

at 10.00 hrs – TH Conference Room

TURBOchannel bus description

by Michael J.K. NIELSEN / Digital Consulting
Engineer

TURBOchannel is an I/O interconnect (bus) that allows several I/O options to connect to one system. TURBOchannel is a synchronous, scalable interconnect with a concise, efficient protocol optimized for I/O applications. TURBOchannel is an open interconnect (specifications are available), and its first

implementation is on the DECstation 5000. In his talk, Michael J.K. Nielsen will talk about the history of previous busses, outlining their shortcomings, and the development that lead up to the TURBOchannel. He will then overview the hardware, firmware, and system characteristics of TURBOchannel. TURBOchannel is a trademark of Digital Equipment Corporation.

Michael J.K. Nielsen is a Digital Consulting Engineer. He is an architect of Digital's family of RISC-based, desktop workstations and is a chief designer for the DESstation 5000 Model 200 and TURBOchannel (TM). Michael J.K. Nielson is a graduate of Stanford University.

* Please note unusual day, time and place!

Tuesday 18 September

PRESENTATION

Morning 10.00 - 12.00 hrs : Presentation
 Afternoon 14.00 - 17.00 hrs : VxWorks Demo
 CN Auditorium, bldg 31, 3-005

Developing real-time applications software with VxWorks

by Gregory A. OTT / Vice-President SHS-Engineering AG (Swiss distributors for Software Development Tools)

VxWorks is a real-time development environment built on standards. The environment includes :

1. A High-Performance Real-Time Operating System
2. Optimized Communications Facilities including (TCP/IP, RPC, NFS, rlogin, FTP and others)
3. Leading edge performance (Context Switch 17 microseconds)
4. Source code debugging of target processes
5. Support for UNIX & VMS host platforms
6. Support for a growing number of major CISC and RISC processors including (680X0 series, Sun SPARC, Intel 80960, etc.)
7. windX supports X Window System client-side software
8. and much much more...

The morning session will cover the elements of VxWorks including the Development Cycle, System Architecture, I/O System, Networking, and many other topics. Various VxWorks documents will be available during this presentation. In the afternoon a demo of VxWorks will be given which demonstrates many of the VxWorks components. The demo will be done on a Sun-3/80 Host and a Motorola MVME-147 target.

Language : English

CN Organizer : Douglas Kemp / tel. 5024, 13-3066

Tuesday 18 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Results from deep inelastic muon scattering at 490 GeV/c

by Mark ADAMS / Fermilab

Experiment E665 utilizes a 490 GeV/c muon beam, acceptance above Q^2 of 0.1 GeV², and extensive hadron tracking to study interactions from deep inelastic muon scattering. We present preliminary results on the cross section ratios of Xe, D2 and H2 at low X_{Bj}, as well as charged track multiplicity distributions.

* Tea & coffee will be served at 16.00 hrs.

Wednesday 19 September

SOFTWARE TECHNOLOGY INTEREST GROUP (STING)

First general meeting

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

by A. DANEELS / AT, P. PALAZZI / ECP & D.M. SENDALL / ECP

The aim of STING is to allow people who are using new software technologies to exchange information and experience on methods and products. This should help them to pool resources in an informal way, spread knowledge of new techniques and ideas, and guide the policy of the support groups. Anyone working in this area, or interested in the field, is encouraged to contact us. Over 80 people have already expressed an interest. Practical questions of organisation will be discussed with the people who wish to participate. In addition to meetings, presentations and newsletter articles, we hope to set up a computerised infrastructure to help exchange information.

We propose to be fairly open in our initial range of subjects, and to be guided by the response we get. Examples are : analysis and design methods (with the appropriate CASE tools), data modelling, integrated programming support environments, object-oriented methods and software buses, system modelling and simulation tools, advanced documentation systems and human interface builders, as well as such issues as project management, cost evaluation and quality assurance. You are welcome to suggest others. If you would like to join in, please send an e-mail message to one of the following addresses, indicating your particular field of interest if any. We shall be pleased to hear from people outside CERN.

VXCERN::STING STING@CERNVAX
 STING@CERNVM

The provisional agenda of the first meeting is :

1. Discussion of STING aims and activities
2. Forthcoming meetings and presentations
3. Training needs
4. Communication, access to documentation

Your suggestions on this agenda are welcome. Hope that those of you who are in CERN will come along and make your views known.

Wednesday 19 September

PS SEMINAR

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

Highlights from the LEAP-90 Conference

by R. LANDUA / CERN

An overview will be given about new results from the first and second generation of LEAR experiments, which have been presented at the conference on Low Energy Antiproton Physics (LEAP), 2-6 June 1990 in Stockholm.

Wednesday 19 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Non-perturbative effects in field theories with and without fermions

by M. KTORIDES / University of Athens

Wednesday 19 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Status of the SSC

by Roy F. SCHWITTERS / Director of SSC Laboratory

Jeudi 20 septembre

PRÉSENTATION TECHNIQUE

de 09.30 à 12.00 h & de 14.00 à 16.00 h
bât. 73, 2-027

Origa Pneumatik AG (CH/D) présente une gamme de vérins pneumatiques sans tige de piston : courses à la demande (jusqu'à 12 m), force et vitesse constantes, gain de place, entraînement direct, autoguidage, efforts importants (force d'action jusqu'à 820 N).

Langues : allemand & français
Renseignements : M. Diraison / FI / 4585

Monday 24 September

PPE SEMINAR

at 16.30 hrs – Auditorium

A measurement of the W boson mass

by William TRISCHUK / CDF Collaboration

A preliminary determination of the W Boson mass is now available from the CDF detector. The results presented are based on data from the 1988-89 run of the Fermilab Tevatron. Our measurement combines results from both $W \rightarrow e\nu$ and $W \rightarrow \mu\nu$ decays. Comparing our W mass measurement to either the CDF or LEP Z mass measurements leads to a precise determination of $\sin^2\theta_W$ and related Standard Model parameters.

Tuesday 25 September

CN SEMINAR

10.30 - 12.00 hrs – CN Auditorium
bldg 31, 3-005

VMS Version 5.4 Update

by Jeff ARNOLD / VMS Engineering, Digital Equipment Corp.

Wednesday 26 September

PS SEMINAR

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

Radiation safety in the PS

Agreements and obligations regarding radiation safety at CERN The resulting policy and methods of implementation

K. Goebel

Radiation from the PS and how it is managed
A.H. Sullivan

Other radiation sources of interest to the PS, i.e. lasers, RF, magnetic fields

J. Tuyn

The assessment of radiation dose to individuals
M Höfert

Each session will last about half an hour with coffee break after the second session.

*** Please note unusual time!**

Thursday 27 & Friday 28 September

DEC VMS SECURITY COURSE

09.00 to 17.00 hrs – CN Auditorium
bldg 31, 3-005

TWO one-day sessions (both in English) aimed at securing VAX/VMS systems connected to private & public networks, and intended for System Managers with little or no experience on VAX/VMS systems. There will be no charge for participants.

For further particulars and registration, please contact M. Cipriotti preferably by E-Mail (vxcern::cipriotti).