

SEMINARS SEMINAIRES

Tuesday 26 and Wednesday 27 March

SPS EXPERIMENTS COMMITTEE

Open Session - Tuesday 26 March

at 09.00 hrs - Auditorium

1. Status Report on WA69 (Photoproduction in the Energy Range 70-200 GeV) and Addendum : Hadron Data for Photon Comparison in WA69 (Bonn - CERN - Lancaster - Manchester - RAL - Sheffield Collaboration; SPSC 85-13/P 140/Add.4; E. Paul).
2. Status Report on WA71 (Study of Beauty Production and Lifetime in the Upgraded Q' Spectrometer; CERN - Geneva - Genova - Milan - Moscow - Paris - Rome - Santander - Valencia Collaboration; G. Diambrini-Palazzi).
3. Status Report on WA78 (Search for the Hadroproduction of Baryon-Antibaryon-Pairs; Bari - Brussels - CERN - London - Rome - Turin Collaboration; P. Pistilli).
4. Status Report on UA6 (Internal Hydrogen Jet Target in the SPS to Study Inclusive Electromagnetic Final States and A-Production in Proton-Antiproton and Proton-Proton-Interactions at 22.5 GeV cm.; CERN - Lausanne - Michigan Univ. - Rockefeller Univ. - Lund Collaboration; C. Joseph).
5. Interactions of 50-200 GeV/AMU O¹⁶ Nuclei in Light and Heavy Absorbers (Krakow - Louisiana - Minnesota Collaboration; W.V. Jones; SPSC 85-6/P 209).
6. Detailed Measurements of Structure Functions from Nucleons and Nuclei; K. Rith; SPSC 85-18/P 210).
7. Study of High-Energy Nucleus-Nucleus Interactions with the Enlarged NA10 Dimuon Spectrometer (Bergen - Bordeaux - CERN - Ecole Polytechnique - Lisbon - Lyon - Neuchatel - Orsay - Strasbourg - Valencia Collaboration; P. Sonderegger; SPSC 85-20/P211).
8. Investigation of Soft Photon Production in Hadronic Collisions Using the Omega Spectrometer (Athens - CERN Collaboration; Y. Goldschmidt-Clermont; SPSC 85-22/P 212).
9. A Hybrid Experiment to Explore High Energy Ion Collisions (Bari - CERN - Dublin - Nagoya - Rome - Turin Collaboration; P. Musset; SPSC 85-24/P 213).

Closed Session - Wednesday 27 March

at 09.00 hrs - Conference Room 6th Floor (Administration Building)

Tuesday 26 March

PRESENTATION

at 10.00 hrs - DD Amphitheatre
(Bldg. 31,3-005)

VAXclusters : Set-up and Management

by C.W. HOBBS*, Digital Equipment Corporation, Spitbrook, USA

VAXclusters can be configured as heterogeneous clusters (where a group of essentially independent VMS systems share some disk storage) or as homogeneous clusters (where the cluster is one super-system, and all systems are identical). Some combinations of heterogeneous and homogeneous clusters are also possible.

This talk will describe the issues involved in deciding what level of heterogeneity versus homogeneity is desired, and the ways of implementing and managing that decision.

The Question and Answer session can cover a wide range of VMS V4.0 and VAXcluster topics.

* Craig Hobbs is a Principal Engineer in the VMS Development Cluster and Networks Group. He has been working with VMS since the pre-version 1.0 days. He has been in VMS Development for the last four years, working on clusters and other parts of VMS. He has detailed knowledge of many of the internals of VMS and VAXclusters, and experience in a wide range of VMS areas which comes from his early and continuing background as a VMS user. He was also responsible for the final integration and production of the VMS V4.0 product. Mr. Craig will be at CERN from the 25th to the 27th of March for discussions.

Tuesday 26 March

CAS ACCELERATOR SEMINAR

at 14.30 hrs - Council Chamber

Background and Highlights of the UCLA Workshop on Laser Acceleration of Particles (January 7-18, 1985)

by B.W. MONTAGUE / CERN

The growing conviction that physics in the 21st century will require high-energy e⁺-e⁻ colliders has re-awakened interest in exotic acceleration methods which might permit multi-TeV colliders to be built within an acceptable cost and power consumption. Many of these methods overlap the fields of accelerators, lasers and plasmas. Schemes will be described, and their possibilities and limitations discussed. Progress reported at the Workshop will be reviewed and future plans outlined.

Wednesday 27 and Thursday 28 March

TECHNICAL PRESENTATION

NORSK DATA SEMINAR

Council Chamber, bldg. 503

Wednesday 27 March

Morning

- 09.30 General presentation of the NOTIS products
- 10.30 NOTIS- WP - Text processing
- 11.00 Coffee break
- 11.30 ND user interface
 - UE - User environment
 - NORIS-DS - Document storage
 - NOTIS-IR - Information storage and retrieval

Afternoon

- 14.00 Communication
 - COSMOS - the Norsk Data network
 - NOTIS-ID - electronic mail
 - ND-Telex
 - ND-Teletex

15.00 Coffee break
15 JO Graphics
 NOTIS-BG - Business graphics
 NOTIS-Calc - Electronic spreadsheet

Thursday 28 March

Morning

09.00 General presentation of ND-Dialogue
10.00 Coffee break
10.30 UNIQUE - Application Development tool
11.30 ACCESS - Query language

Afternoon

14.00 NOTIS RG - Report Generator

Language : English
Information : M. Diraison/FI74585

Wednesday 27 March

TECHNICAL PRESENTATION

 at 10.00 hrs - Bldg. 6, Room 2-004
BURR-BROWN AG (CH/GB)
The world of real time Digital Signal Processing on VME-Bus
A unique combination of Analog I/O- and DSP (Digital Signal Processing) Boards from BURR-BROWN gives system integrators real choices in real time DSP system design. The BURR-BROWN range of Analog I/O- and DSP-Boards, which are designed and manufactured in Europe, will be presented. The system aspects of real time DSP will be discussed with particular emphasis on software and operating systems. Since a major objective of the presentation is to gather users' views on future products, time will be given for the audience to present their views and ideas.

Languages : English, French
Information : M. Diraison/FI74585

Mercredi 27 mars

PRESENTATION TECHNIQUE

 10.00 h a 16.00 h - bat. 73, salle 2-027
ERICSSON INFORMATION SYSTEMS SA (CH/S)
propose en demonstration :
1. Ericsson PC, compatible operationnellement avec les IBM PC et XT meme au point de vue du materiel, possede en plus Vergonomie Ericsson.
2. Ericsson Ericom Direct, nouveau systeme d'interphone et d'information interne (technique numerique, micro-processeurs et enregistrement de la parole digit a Usee donnent des perspectives entierement nouvelles au concept de Vinterphone).

Langues: allemand, anglais, frangais
Renseignements: M. Diraison/FI/4585

Wednesday 27 March

THEORETICAL SEMINAR

 at 14.00 hrs - Theory Conference Room
Fermion mass predictions from higher dimensions?
by C. WETTERICH / Bern

Higher dimensional theories give relations between Yukawa couplings and gauge couplings in the resulting four-dimensional low energy theory. After spontaneous breaking of the weak gauge group, the ratio of fermion to gauge boson masses becomes predictable.

Wednesday 27 March

LEP SEMINAR

 at 14.30 hrs - LEP Auditorium
 (Building 30 - 7th floor)
Controlling the LEP r.f. system
by E. CIAPALA / CERN-LEP

The requirements for the control of the LEP RF system will be briefly outlined. The control of the various pieces of equipment within the individual RF units and their interfacing will be described in detail. The control of the existing RF 16-cavity test string, cavity conditioning and klystron test stands will also be described.

Thursday 28 March

DD SEMINAR

 at 16.00 hrs - DD Amphitheatre
 (Building 31 - 3rd floor)
A Joint Academic Research Network in the Netherlands
by Gerard ROEFS / Philips, Netherlands

The Dutch R&D community on the eve of the information age. The Dutch joint academic research network is one of the selected topics of a Dutch stimulation programme in information technology. In a joint effort, the Dutch Universities, the PTT and Philips have carried out a feasibility study into a research and development (data) communications infrastructure. The Philips project leader of the feasibility study, Mr. Gerard Roefs, will give a lecture on the following topics:
- the background of the feasibility study
- the result of the feasibility study in terms of infrastructure, architecture, functionality, standardization and equipment
- the current state, the organization and planning of the joint Academic Research Network project
- the involvement of the Dutch information technology industry and universities in the project.

Friday 29 March

MEETING ON
PARTICLE PHYSICS PHENOMENOLOGY

 at 11.00 hrs - Theory Conference Room
Review of the International Symposium on proton-antiproton collisions, Utsukuba

Tuesday 2 April

SCIENCE AND SOCIETY SEMINAR

at 16.30 hrs - Auditorium

On being a physicist

by J. ZIMAN / Dept. of Social and Economic Studies, Imperial College, London

Wednesday 3 April

DD SEMINAR

at 16.00 hrs - DD Amphitheatre (bldg.31, 3rd fl.)

UPPERBUS - A bit-serial, fiber optics based computer link bus with 280/560 Mbit/s

by W.K. GILOI and G. ZUBER /GMD, Berlin

TRAINING AND
EDUCATION
ENSEIGNEMENT

ENSEIGNEMENT GENERAL
Tel. 2844

Jeudi 28 mars

de 13.00 h a 13.30 h - Amphitheatre

Science pour tous

par R. CARRERAS

Prochain expose : jeudi 25 avril.

25, 26, 27, 28 and 29 March

11.00 to 12.00 hrs (except 26 March : 16.00 to 17.00 hrs) - Auditorium

e` e" physics

by G. FLUGGE / Nuclear Physics Institute, Karlsruhe

(For content, see last week's Bulletin,)

- 1. SA fundamentals; applications of SA models; from analysis to design.
- 2. From analysis to design (cntd); SD fundamentals; applications of SD models.
- 3. Management of analysis and design; development environments; strategies for introducing new technology; success patterns and failure modes.

The first two days will have lectures and exercises interspersed, in a ratio of about 2 hours of lecture to 1 hour of exercises (which involve interaction with the instructor); the third day has a smaller amount of exercises. Participants will receive a copy of 'THE PRACTICAL GUIDE TO STRUCTURED SYSTEM DESIGN' by M. Page-Jones and a copy of the transparencies used for the lectures.

Contact Mrs Monique Antal, DD Division, Tel. 2396.

INFORMATICS TUTORIAL 1985-2

15 to 19 April

09.00 to 12.00 hrs

Computer networks

by Sape J. MULLENDER / Center for Mathematics and Computer Science (CWI), Amsterdam

Use of computer networks, network structure, network architectures to ISO OSI reference model, overview of existing networks, network topology. The physical layer, the datalink layer, the network layer, WANs and LANs, the transport and session layer, the presentation and application layers. Examples of applications (electronic mail, news, remote login, remote execution, DECNET), computer networks at CERN: The present situation and the future.

Participants will receive the book 'COMPUTER NETWORKS' by A.S. Tanenbaum and copy of the transparencies used for the lectures.

For more information and to register, write or phone to Mrs. Monique Antal, DD Division, phone 2396.

INFORMATICS TUTORIAL 1985-1

27 to 29 March

09.00 to 12.00 hrs and 14.00 to 17.00 hrs

Use of structured analysis and design

by Peter FREEMAN / University of California, Irvine

Understanding the problem (analysis) and defining a solution (design) are the early phases in the life cycle of a data processing system. Structured Analysis (SA) and Structured Design (SD) are techniques that assist the analyst/programmer in the corresponding stages of the project. The elements of SA and SD will be presented, focusing especially on the transition from analysis to design, and management of the process. The tutorial will also (on the third day) address the issue of introducing new techniques (such as SA and SD) into an organization.

This course is intended for scientific and technical personnel and project managers involved in the analysis and design of software.