

Parmi les **autres sujets** discutés, on peut citer le dernier projet de formulation d'une politique du personnel en cours d'élaboration pour soumission au Conseil en juin, les études de planification des effectifs qui sont entreprises actuellement et l'examen des niveaux de rémunération des boursiers et attachés payés par le CERN. Le Comité a noté que les contrats d'emploi des professeurs de langues font l'objet d'une prolongation d'un an et que des plans sont élaborés pour les futures dispositions à prendre dans ce domaine. Les conclusions de ces différents points seront soumises en temps utile au Comité.

La prochaine réunion du Comité se tiendra le 10 mai 1989.

## **RAPPEL**

### **PASSAGE TUNNEL RELIANT LES DIFFERENTES PARTIES DU DOMAINE**

Le tunnel a été créé, en accord avec les autorités compétentes des Etats-hôtes, pour permettre les mouvements de personnes et de biens nécessaires au fonctionnement de l'Organisation.

Il s'avère nécessaire, à la suite de récentes inobservations du Règlement constatées par les autorités françaises et suisses, de rappeler ce qui suit aux utilisateurs de cette voie de passage :

- il n'est pas permis d'emprunter le tunnel pour aller à son travail ou en revenir; il en est de même pour gagner son domicile aux heures du déjeuner;
- toute marchandise personnelle doit passer par les postes-frontières habituels;
- les fiches de transfert ne doivent jamais être signées par un employé d'une entreprise contractante, mais par un membre du personnel du CERN.

Relations avec les Pays-hôtes  
Tél. 5152

## **SEMINARS SEMINAIRES**

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### **Wednesday 3 May**

#### **THEORETICAL SEMINAR**

at 14.00 hrs - TH Conference Room

#### **Extended chiral algebras and modular invariant partition functions**

by A.N. SCHELLEKENS / CERN

**Other topics** discussed included the latest draft of the Personnel Policy statement which is being prepared for submission to Council in June, the manpower planning studies that are currently in progress and the examination of the remuneration levels of Fellows and Associates, paid by CERN. The Committee noted that the employment contracts of the language teachers are being prolonged by one year while plans are made for the future arrangements in this area. The conclusions on these topics will be submitted to the Committee in due course.

The next meeting of the Committee will take place on 10 May 1989.

## **REMINDER**

### **PASSAGE THROUGH THE TUNNEL LINKING THE DIFFERENT PARTS OF THE SITE**

The tunnel was originally built, with the consent of the public authorities of the Host States to facilitate the movement of persons and equipment between the two sites. This is an essential part of the Organization's activities.

Following recent cases of failure to observe the Regulations which have come to the notice of the French and Swiss authorities, it would seem necessary to remind persons using the tunnel of the following :

- using the tunnel to go to, or return from work, is not permitted; this includes going home at lunchtime;
- all personal goods must pass through the usual border checkpoints;
- transfer documents must be signed by a CERN staff member, never by employees of contracting firms.

Relations with the Host States  
Tel. 5152

*A new approach to the construction of modular invariant partition functions for rational conformal field theories is presented. A substantial part of the partition functions of most theories can be determined directly from the fusion rules. All such partition functions have an interpretation in terms of a set of currents of integer and fractional spin. Applications include Kac-Moody algebras, for which we find many new invariants, and tensor products (for example of  $N = 2$  models).*

**Monday 8 May & Tuesday 9 May**  
SECOND GENERAL MEETING  
OF THE LEP PHYSICS WORKSHOP

**Monday 8 May**

at 09.30 hrs – Main Auditorium  
at 14.00 hrs – LEP Auditorium  
bldg 30, 7th floor

**Tuesday 9 May (all day)**

at 09.00 hrs – LEP Auditorium

**Tuesday 9 May**

MEETING ON FASTBUS DEVELOPMENTS

at 09.00 hrs – TH Conference Room

1. *The read-out system for the FEMC of DELPHI*  
by M. Pegararo / University of Padua
2. *Multiprocessor systems in FASTBUS*  
by A. Marchioro / CERN
3. *The CHI, a new FASTBUS interface and general purpose processor*
  - a) *The hardware*, by H. Müller / CERN
  - b) *The software*, by R. Divia / CERN
4. *FASTBUS daisy chain variants : is convergence possible ?*  
by P. Ponting / CERN
5. *Various*

**Tuesday 9 May**

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium\*

**What do we know (and how) about the CKM matrix**

by Yosef NIR / SLAC

*The way from an experimental measurement to the numerical value for each given CKM matrix element is briefly described. How do we choose the appropriate model? What are the uncertainties involved? Where should we direct our future efforts? How do loop processes help us? Finally we describe the state of the art of our knowledge of the CKM matrix.*

\* Tea & coffee will be served at 16.00 hrs.

**Wednesday 10 May**

COMPUTER SEMINAR

at 16.00 hrs – Auditorium\*

**Multi-media networking**

by Chris ADAMS / Rutherford Appleton Laboratory, UK

*Recent research effort in networking has been directed to supporting multi-media applications including moving and still images, voice and distributed systems as well as file transfer, electronic mail and remote logon. Networks which can support this traffic require higher bandwidth than present*

*ones but they also have to deal with synchronous traffic (voice and moving images) which require guaranteed access to the network. A generally accepted model for such a network is now emerging, based around switching small fixed sized packets. The UNISON network, which took this approach some time ago, is described. Concerned as to whether such traffic could be supported by network nodes using sequential processor architectures, it was decided to invest in special-purpose parallel architectures based on meshes of transputers. The talk will describe the design, construction and problems associated with such architectures after a brief introduction to transputers and OCCAM.*

Chris Adams has worked in the field of computer networks since the early 70s. During 1976 - 1978 he was a research associate at CERN and helped to develop the STELLA satellite network. Since then he has been involved in the UNIVERSE and UNISON projects in the UK and with the SATINE-2 project under COST-11. These projects have extended the range of Local Area Network activities using satellite and terrestrial links. His current interests include multi-media networks and parallel architectures based on transputers. He is Professor of Computing at the University of Buckingham with a concurrent research position at RAL.

\* Coffee & tea will be served at 15.30 hrs

**Jeudi 11 mai**

PRESENTATION TECHNIQUE

de 14.00 à 16.30 h – Amphithéâtre LEP  
bât. 30, 7e étage

*Siemens-Albis SA (CH/D) – Séminaire SIMATIC S5  
Les automates programmables aux multiples talents*

1. *Exposé d'une heure comprenant :*  
*introduction, considérations sur les systèmes d'automatisation, les automates programmables, les appareils de programmation, la documentation, la communication entre les systèmes, la conduite et visualisation de processus, les ordinateurs personnels industriels.*
2. *Présentation et démonstration*  
*Automates programmables SIMATIC S5-100U, S5-115U, S5-135U, S5-155U; Borniers électroniques décentralisés ET100; Progiciels 'PMC' (Process Monitoring Control) pour la conduite, la régulation et la supervision de processus; Système COROS 2000 de visualisation et conduite de processus; Appareils de programmation PG685 avec fonctions de documentation KOMDOK; Programmation STEPS sur ordinateurs personnels (IBM compatibles); Ordinateurs personnels industriels SICOMP PC32-05 et 32-20.*  
*Tous les systèmes seraient en service avec programmes de démonstration.*

**Applications**

*commandes, régulation, surveillance et assurer les fonctions de conduite, visualisation, communication et protocole pour toute installation.*

Langue : français

Renseignements : M. Diraison / FI / 4585

**Mercredi 17 mai**

**PRESENTATION TECHNIQUE**

de 14.00 à 16.00 hrs - Parking PTT,  
près du bât. 63

*Rosemount AG (CH) propose en démonstration son programme de représentation : système de contrôle de procédé entièrement distribué ROSEMOUNT SYSTEM 3 (USA, NL) - systèmes de mesure de débit massique, capteurs de débit électromagnétiques (NL) - Convertisseurs de température (Pt100/80 mA),*

## **TRAINING AND EDUCATION ENSEIGNEMENT**



**ENSEIGNEMENT TECHNIQUE  
TECHNICAL TRAINING**

Tél. Secrétariat : 44.60

**June 5 to 7, 1989**

### **CAE IN ELECTRONICS**

by **Dr. Lawrence ODESS**  
Israel Aircraft Industries

**Monday, June 5 - Main Auditorium**  
From 9 h.00 to 12 h.00 and 14 h.00 to 16 h.00  
Open session

- CAE : what ? why ? how ?
- New concepts in electronics development  
*the various steps from conception to manufacture - the use of databases throughout all the design phases - tests philosophy - top down design approach - reduction of number of design cycles.*
- New technologies  
*why design your own integrated circuit ? - alternative solutions : PLD, gate arrays, standard cells, full custom - characteristics of ASIC's (performances, volume of production and design cycles, analog ASIC) - CAE techniques - dangers to be avoided.*
- New development tools  
*trends in the industrial tools - compatibility between those products (EDIF, VHDL, etc.) - use and limitations of PC's - use of main frames - the role of the workstation - integrated CAE facility for a large and diverse community of designers - how to get started.*

*transmetteurs de température (Pt100/thermo-couple/tension, etc., sortie 80 mA), div. sondes (Pt100), moniteurs d'alarme (6/12/24 voies), etc. (GB).*

*Transmetteurs de pression (coupe, cellule 1151, y compris 1151GP avec capillaires ou avec séparateurs 1199), transmetteurs de pression 1144, convertisseurs de pression B/I (1135), nouveaux modèles SMART, etc. (CH, D, F).*

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

**Tuesday June 6 - TT Auditorium - blg 593**  
Closed sessions

**9 h.00 Analog simulation**  
*role of analog simulation - fundamental theory - behavioral and mixed level simulation techniques - use of simulation tools - components modelling and libraries - review of main industrial programmes - trends.*

**14 h.00 Digital simulation**  
*the design process (from conception to manufacture, CAD, CAM, CAT tools, data capture) - role of the logic simulator - fundamental of logic simulator - component modelling and libraries - automatic testing of digital circuits (fault simulation, test pattern generation, design of test ability) - review of the main industrial programmes - trends.*

**Wednesday June 7 - TT Auditorium - blg 593**  
Closed session

**9 h.00 Exploitation of an integrated CAE facility**  
*problems related to a large and dispersed community of designers - problems related to a large variety of techniques - compatibility between tools, standards - management of component libraries - organizational considerations.*

Participation in the closed sessions is subject to prior enrolment. The number of participants is limited to 25 for each session. Those interested are requested to fill in and to return the application form below to the Technical Training Secretariat.

To : Technical Training Secretariat

I would like to participate in the sessions marked by a X

- |                          |                                            |
|--------------------------|--------------------------------------------|
| <input type="checkbox"/> | Analog simulation                          |
| <input type="checkbox"/> | Digital simulation                         |
| <input type="checkbox"/> | Exploitation of an integrated CAE facility |

Name : ..... Div : .....