

Rappel

Les fonctionnaires et membres de leur famille qui ont une

CARTE DE LEGITIMATION SUISSE

délivrée par la Mission permanente de la Suisse près les Organisations internationales, dont l'échéance est prévue pour la fin 1986, sont priés de l'envoyer à la Division du Personnel pour prolongation de validité. **Les membres du personnel titulaires voudront bien envoyer leurs cartes à Mme E. Deluermoz, Section des Dossiers et Remboursements, les boursiers et attachés à Mme M. Burri, Section des Boursiers et Attachés.**

Veuillez joindre **trois** photos passeport pour l'établissement d'une nouvelle carte dans tous les cas où une prolongation de validité n'est plus possible faute de place.

LES CARTES SPECIALES ET ATTESTATIONS DE FONCTION FRANCAISES

délivrées par le Ministère des Affaires Etrangères, dont l'échéance est prévue pour la fin 1986, doivent être envoyées selon la même procédure, soulignée plus haut.

Deux photos sont nécessaires dans tous les cas où une prolongation de validité n'est plus possible faute de place.

ATTENTION

Vu le nombre très élevé de cartes à traiter, il ne sera pas possible d'établir des attestations en remplacement de celles-ci. Veuillez donc faire des photocopies avant votre envoi.

Si vous êtes en possession de cartes périmées, l'Organisation ne prend aucune responsabilité en cas de difficultés avec les autorités de la Police ou de la Douane.

Si vous ne renouvelez pas vos cartes, des mesures peuvent être prises conformément aux Statut et Règlement du Personnel, Article R II 5.01.

Division du Personnel
Tél. 3238

Reminder

Members of the Staff and their families holding

SWISS 'CARTES DE LEGITIMATION'

due to expire at the end of 1986, should send them to Personnel Division for extension of the period of validity by the Swiss Permanent Mission to the International Organizations. **Staff members should send their cards to Mrs. E. Deluermoz, Records and Claims Section, and Fellows and Paid Associates to Mrs. M. Burri, Fellows and Associates Section.**

Please note that if the card has no space for further validation, **three** passport photographs should be sent with the old card so that a new one may be prepared.

'CARTES SPECIALES' AND 'ATTESTATIONS DE FONCTION'

issued by the French Ministry of Foreign Affairs due to expire at the end of 1986 should also be renewed according to the above procedure.

Two photographs are necessary for all cards with no space for further validation.

N.B.

In view of the considerable number of cards to be renewed, it will not be possible to issue attestations to replace them; so please keep photocopies.

If you are in possession of invalid cards, the Organization will not take any responsibility in case of difficulties with the Police or the Customs authorities.

If you do not renew your cards, measures may be taken according to Article R II 5.01 of the Staff Rules and Regulations.

Personnel Division
Tel. 3238

SEMINARS SEMINAIRES

Monday 1 December

EP SEMINAR

at 16.30 hrs – Auditorium

First results from $^{16}\text{O} + \text{Pb}$ reactions at 200 GeV per nucleon

by R. STOCK / CERN and University of Frankfurt

Interactions of oxygen projectiles with heavy target nuclei have been studied using the CERN SPS external

nuclear beam of 200 GeV per nucleon. Successful operation of this beam began in September 1986. The long range goal of these studies is the search for the 'quark-gluon-plasma' state of strongly interacting matter, as predicted by lattice QCD. Before getting there, however, we want to make sure that a sufficiently high energy density is attained in the interaction volume of head-on nucleus-nucleus collisions. First results on multiplicities, transverse energy distributions, and their implications for the energy density near mid-rapidity will be discussed.

Tuesday 2 December

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Design and status at Serpukhov of UNK accelerators

by A. VASSILIEV / IHEP, Head of Accelerator Department, USSR State Committee

The construction status of UNK (3 TeV proton accelerator) and plans for the future will be presented.

* Tea and coffee will be provided at 16.00 hrs.

Tuesday 2 December

SCIENCE AND SOCIETY

at 20.30 hrs – Council Chamber

Can SDI software be trustworthy?

David L. PARNAS / Queen's University, Kingston, Ontario, Canada

In March 1983 U.S. President Reagan asked scientists to develop a system that would free us from the fear of nuclear weapons by making strategic missiles impotent and obsolete. In response, the Department of Defense formed the Strategic Defense Initiative Organization to investigate the possibility of such a system. This talk presents the speaker's reasons for resigning from an SDIO advisory panel. It presents (a) the reasons that we are unable to build software that is right the first time that it is used, (b) the aspects of the 'Star Wars' problem that make it especially difficult from a software point of view, (c) the reasons that certain new software technologies will not make it possible to build a trustworthy software system for SDI, (d) the flaws in the counterarguments proposed by SDI proponents. The talk is technical and will not discuss political or strategic aspects of SDI. However, a deep knowledge of computer science is not required. This talk sheds some light on the general question of the limitations on what we can do with computers.

Mercredi 3 décembre

PRESENTATION TECHNIQUE

de 09.00 à 18.00 h – Saint-Genis, salle de l'Allondon, route de Gex, 200 m à gauche

ISNARD (F), distributeur de matériel électrique et électronique, organise une journée technique sur le thème 'mesure, régulation, automatisme, signalisation, alarme, chauffage, câbles, appareillages et matériels divers d'installation et de maintenance'.

Firmes présentes (30) : AEG Outillage (D), AEI, Aiphone (E/J), Atlantic, Campa, CDA, Claude, Delta Dore, D'therm, Elgé, Entrelec, Europhane, Fuba (D), Intertool (D), Jay Electronique, Legrand, Linder (S.E.S.), Merlin Gerin, Métrix, Nather, Proner, Raychem (USA), Sarel, Simel, Solenoid, Syrelec, Tehalit (D), Télémécanique, Thomson, 3M.

Langue : français

Renseignements : M. Diraison / FI / 4585

Wednesday 3 December

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Conformal invariance – some results on the A-D-E classification and new developments

by C. ITZYKSON / Saclay

We propose to review some implications of modular invariance on critical 2d field theories such as the A-D-E classification obtained in collaboration with A. Cappelli and J.B. Zuber. Further progress on the vicinity of the critical point will also be discussed.

Wednesday 3 December

CERN COMPUTER SEMINAR

at 16.00 hrs – Auditorium

A rational design process : How and why to 'fake it'

by David L. PARNAS / Queen's University, Kingston, Ontario, Canada

Many have sought a software design process that allows a program to be derived systematically from a precise statement of requirements. This talk proposes that, although we will not succeed in designing a real product in that way, we can produce documentation that makes it appear that the software was designed by a such a process. The ideal process, and the documentation that it requires is described. We then explain why one should attempt to design according to the ideal process and why one should produce the documentation that would have been produced by that process. We describe the contents of each of the required documents and the advantages that accrue from writing them. The talk provides an overview of modern software engineering ideas and is accessible to anyone with some experience with larger software systems.

The speaker

David Lorge Parnas, Professor of Computer Science, Queen's University, Ontario, has published more than 90 papers on computer system design. He has more than 25 years of software construction experience, including fifteen as a consultant for US DoD agencies, such as the Naval Research Laboratory. His special areas of interest are software engineering, large-scale programming, hierarchical organization, simulation, and cooperating sequential processes.

* Tea and coffee will be provided at 15.30 hrs.

Thursday 4 December

PRESENTATION

at 10.00 hrs – DD Conference Room
bldg 31, 3-005

EPLDS Erasable Programmable Logic Devices

by J.D. GRETHER / Industrade AG

- Just write and see!
- EPLD architecture
- Macro-cells
- iPLDS development tools
- Design entry by drawing and equations
- Discussion and questions.

Language : French, questions in English

Vendredi 5 décembre

SEMINAIRE TIS

à 14.30 h – Amphithéâtre de l'Enseignement technique
bât. 593, salle 11

Etude de sûreté de projets complexes

Approche pratique

par Jean DEBRAY / Ingénieur, professeur à l'Université de Compiègne

Dans la réalisation de tout grand projet, la fiabilité et la sûreté des systèmes doivent être prises en considération. Une présentation sera faite de l'analyse de la méthodologie suivie pour les études de sécurité de projets complexes et bien différents, tels que Creys-Malville ou Hermès. Des exemples concrets seront donnés pour montrer comment, en partant d'un système, il est procédé à l'étude d'un projet dans son ensemble. Ce séminaire s'adresse à toute personne intéressée et ne nécessite aucune connaissance spécifique préalable.

Monday 8 December

EF SEMINAR

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

Graphics for DELPHI

by A. GRANT / CERN

A brief introduction will be given describing the developments in graphic techniques over the last decade. Particular mention will be made of the introduction of new software standards, GKS, GKS 3D and PHIGS. The implications of the rapid development of graphics hardware over this period, from the monochrome storage tube to the double buffered rasterised image will also be described. Two examples of the application of modern graphics to the DELPHI experiment will be given. In the first example, in the context of the online control of the experiment, a general set of tools will be described. These tools allow the user to make a graphical display of his particular control problem, for example gas system, fastbus data acquisition, etc. and to prepare a knowledge base file, which will be used to animate the drawing from monitored data. Under running conditions the user may interactively select control objects, initiate a 'pop-up' menu and hence issue commands to the equipment. The second example of modern graphics will be taken from the DELPHI interactive analysis program. The general structure of the program will be briefly described and the importance of the use of graphic software standards stressed.

Monday 8 December

EP SEMINAR

at 16.30 hrs – Auditorium

New results on underground muons

by Marvin MARSHAK / University of Minnesota

The question of whether underground muons can be related to a specific astrophysical source has received considerable attention in the past year. I will present 1985-1986 data from the Soudan 1 detector for several

possible sources, including Cygnus X-3, Hercules X-1 and 1E2259+586. I will particularly describe observations during the radio flare of October 1985 and during the coordinated observing period in September-October 1986.

Tuesday 9 December

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

New charm results from the Fermilab tagged photon spectrometer

by R. MORRISON / University of California, Santa Barbara

Wednesday 10 December

LEP SEMINAR

at 14.30 hrs – LEP Auditorium
bldg 30, 7th floor

Coherent instabilities of electron bunches in LEP

by B. ZOTTER / CERN – LEP

Wednesday 10 December

DD SEMINAR

at 16.00 hrs – DD Conference Room
bldg 31, 3-005

A distributed CRON System

by Maria VARELA / CERN – DD

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 4 décembre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tel. 2844-3364

3 and 4 December

The lectures on 'Epistemology'

by K. POPPER / University of London

have been CANCELLED

(for health reasons)