

COMMUNICATIONS OFFICIELLES

Les membres du personnel sont censés avoir pris connaissance des communications officielles ci-après.

OFFICIAL NEWS

Members of the personnel shall be deemed to have taken note of the news under this heading

CERN EXECUTIVE BOARD

- At its 28th Meeting, on Friday, 30 September 1977, the Executive Board agreed to the tables with the budget figures which will form the annex of 'The Scientific Programme and Budget Estimates of CERN 1978-1981'.

It then discussed Divisional staff requirements and staff target figures. Staff numbers at CERN will still have to be reduced, but not as much as originally foreseen. This will mean that some of the most urgent needs in EP, EF, DD, PS and SPS Divisions can be satisfied.

The Executive Board approved the terms of reference and the membership conditions of the new Stores Committee, which will be chaired by B. Milman.

The Board took note of the cost revision of the project 'Removal and Reinstallation of Gargamelle' which was terminated in August 1977.

Finally, the Executive Board was informed about plans to prepare for the 25th Anniversary of CERN in 1979 a presentation of several series of sophisticated technologies used at CERN.

- At its 29th Meeting, on Thursday, 13 October 1977, the Executive Board discussed the document 'The Scientific Programme and Budget Estimates of CERN 1978-1981' (CERN/SPC/411-CERN/FC/2093).

It approved the capital project 'Chambre de Raccordement sur TT2'.

The Executive Board then discussed a draft information sheet on the appeals procedure in connection with classification of posts and promotion (Recours en matière de classification des emplois et d'avancement). The new procedure foresees that the Directors-General, after having received the recommendation of the Appeals Board and before taking any positive decision, also seeks the advice of the Interdivisional Staff Review Panels. This will mean that all staff are treated on the same basis including those who did not appeal. The Executive Board approved the draft information sheet.

The Board finally discussed with the Chairmen of the Interdivisional Staff Review Panels the Staff Review 1977. A number of modifications as regards the operation of the panels for the Staff Review 1978 were proposed. The Executive Board will conclude this discussion at its next meeting.

SECURITE PROPANE ZONE OUEST NEUTRINO

A partir du 19 octobre 1977, et jusqu'à la fin décembre, la chambre à bulles Gargamelle fonctionne en propane.

Veuillez vous conformer aux consignes et règles de sécurité en vigueur dans la Zone Ouest Neutrino.

M. Schmitt / EF-GGM

PROPANE SAFETY IN WEST AREA-NEUTRINO

From October 19th onward, to the end of December, the Gargamelle bubble chamber is operating with propane.

Please conform to the instructions and safety rules in force in the West Area-Neutrino Zone.

M. Schmitt / EF-GGM

STATUT ET REGLEMENT DU PERSONNEL Fiche d'information

Une nouvelle fiche d'information : Recours en matière de classification des emplois et d'avancement est maintenant publiée. Elle est disponible

AU SECRETARIAT DE VOTRE DIVISION.

J.F. Barthélemy / Tél.2855

STAFF RULES AND REGULATIONS Information sheet

A new information sheet : Appeals in connection with the classification of posts and promotion is now published. It is available

AT THE SECRETARIAT OF YOUR DIVISION.

J.F. Barthélemy / Tel.2855

SEMINARS SEMINAIRES

MONDAY 24 OCTOBER

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(top floor of Building 30)

"DCI, the double e^+e^- rings at Orsay"

by M. Sommer / Orsay

Abstract : The Orsay machine consists of two superimposed rings with two 6 m long straight sections where 2 x 2 globally neutral beams collide head-on, the object being to minimize space-charge effects. Beam dynamics observations and experiments with one or two rings in operation will be reported, as will the first results on space-charge compensation.

at 16.00 hrs - Theory Conference Room

"Can there be a collapsed state of matter?"

by J. Rafelski / CERN

Abstract : Several models (Lee-Wick, π -condensates) describing abnormal states of matter will be reviewed. The properties of elementary particles in an external electromagnetic potential of arbitrary strength, generated by the abnormal state, will be discussed. I will show that the only significant repulsive force in the abnormal state, the Coulomb interaction of the collapsed matter, is largely neutralized by the spontaneous creation of particle pairs. It is therefore likely that once a transition to the abnormal state begins, it will never be interrupted.

TUESDAY 25 OCTOBER

PRESENTATION TECHNIQUE

de 8h30 à 16h00 - Salle de conférence
du Bât.17 - R1-007

La maison LEYBOLD-HERAEUS (D), spécialiste du matériel pour le vide, représentée par LEYBOLD-HERAEUS AG (CH), expose ses modèles les plus récents : pompe turbomoléculaire à palier magnétique, pompe turbomoléculaire à position de pompe page indifférente, nouveau détecteur de fuite, spectromètre de masse type Quadrupol, matériel cryogénique et appareils de mesure.

Langues : allemand, anglais, français

Renseignements : M. Diraison / FI / 4585

TECHNICAL PRESENTATION

from 14.30 hrs to 16.30 hrs -
EF Conference Room (Bldg.13 - R2-005)

PYE BORDER ELECTRONICS Ltd. (UK), represented by PYE ETHER Ltd. (CH), is manufacturing and selling in Europe the new hand wiring tools and machines for 'SOLDER-WRAP' invented and patented by UNITED WIRING AND MANUFACTURING CO. (USA). Theme of the conference : What is solder wrap ? - a very reliable high density interconnect system with low frontend cost, no artwork generation, fast engineering turnaround, field changeability and realistic production costs.

Language : English

Information : M. Diraison / FI / 4585

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"A search for parity violation in polarized electron scattering at SLAC, a step toward the weak-electromagnetic interference"

by H. Pessard / SLAC-Annecy

ESO ASTROPHYSICS SEMINAR

at 11.30 hrs - DD Conference Room
(Bldg.31 - 3rd floor)

"Observations of Southern radio sources with the Fleurs synthesis telescope"

by W.M. Goss / Groningen

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"Confinement in two dimensions"

by T.T. Wu / Harvard, CERN

Abstract : We study solvable models in two dimensions in order to learn about some general features of confinement.

1. The ϕ^4 theory, in one limit, is closely related to the Ising model near the critical temperature. For confinement the interesting case is $T \rightarrow T_c^-$, where there is spontaneous symmetry breaking.

2. $SU(N)$ Yang-Mills field, in the 't Hooft limit $N \rightarrow \infty$, is solvable in the leading $1/N$ expansion. Problems of the lack of gauge invariance are resolved.

SPECIAL DD SEMINAR

at 16.00 hrs - DD Conference Room
(Bldg.31 - 3rd floor)

"REDAC Mini PCB Designer"

by T. Perkis / RACAL-REDAC, Tewkesbury

Abstract : The REDAC Mini PCB Designer is a computer aided design system for PCB layout with the emphasis on design. The system utilizes a DEC PDP 11/34 computer with refreshed graphics display to allow the designer to communicate effectively with the system. The system incorporates automatic routines for component placement, automatic routing and design rule checking. The fast graphics enables the designer to quickly interact and use his skill and expertise when required. The output from the system is the data of the completed PCB to drive a photoplotter to produce the final artworks for manufacture. Using this system typical design times for a 50 I/C circuit in 15 hours thus enabling a turnaround time of three days from schematic to completed artwork.

THURSDAY 27 OCTOBER

PRESENTATION TECHNIQUE

de 9h00 à 13h00 - Bus parking PTT,
près Bât.63 (D-3)

La maison AMPHENOL-TUCHEL ELECTRONICS GmbH (D), représentée par K. HIRT AG (CH), expose une gamme de connecteurs et accessoires : connecteurs ronds MIL-C-26482, MIL-C-38999 et MIL-C-83723 avec des contacts "filter pin" (RF-filtre dans chaque contact du connecteur) - connecteurs HF miniatures APC-7, APC-3, 5, ALC-5 et pour fibres de verre - nouvelle série C 93 - High Density selon DIN 41618 et 41622, mais avec max. 72 contacts au lieu de seulement 30 des anciennes versions - connecteurs pour circuits imprimés selon DIN 41612 avec contacts à sertir - machines semi-automatique et automatique à sertir les connecteurs.

Langues : allemand, français.

Renseignements : M. Diraison / FI / 4585.

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

"Oscillatory phenomena in epidemics and immunology"

by Z. Grossmann / Weizmann Inst.

Abstract : The subject falls in the domain of mathematically modelling biomedical situations. Recent progress in understanding the origin and nature of oscillatory behaviour in epidemic situations is described. Temporal regularities may reveal the mechanism dominating their occurrence. Oscillations were attributed to seasonal variations of the contact rate between infectives and susceptibles. One year and two year period oscillations were analyzed. Treating the infectious periods as pure delays, regular recurrent outbreaks of the disease exist even with a constant contact rate. Cyclic behaviour also occurs in the immune response following a single injection of antigen. A rather simple model seems to account for many phenomena.

MONDAY 31 OCTOBER

BEBC USERS' MEETING

at 13.45 hrs - Council Chamber

Agenda for the Seventh Meeting :

1. Progress reports : SPSC, SPS, BEBC, Gargamelle, Beams.
2. Status reports and results of WA19.
3. Status reports and results of wide-band neutrino test pictures in neon.
4. Technical developments around the r.f. beams S3 (P. Lazeyras).
5. Beam tagging by transition radiation in S3.
6. Veto counter for the EMI.
7. Flash tube counters for the BEBC picket fence (D. Miller).

CERN COMPUTER SEMINAR

at 14.00 hrs - Auditorium

"The normalized relational and other database approaches"

by G.M. Nijssen / Control Data, Belgium

TUESDAY 1 NOVEMBER (PART I)

THURSDAY 3 NOVEMBER (PART II)

CERN ENERGY SEMINAR (GENERAL LEVEL)

at 16.30 hrs - Auditorium

"Evolution probable de la consommation mondiale d'énergie" (séminaire en français)

par A. Gardel / Ecole polytechnique fédérale de Lausanne

THURSDAY 3 NOVEMBER

ESO ASTROPHYSICS SEMINAR

at 11.30 hrs - DD Conference Room (Bldg.31 - 3rd floor)

"Scale invariance in the theory of gravitation and its first astrophysical tests"

by A. Maeder / Observatoire de Genève

TRAINING AND EDUCATION ENSEIGNEMENT

MONDAY 24 OCTOBER

TUESDAY 25 OCTOBER

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"On the numerical solution of Fredholm integral equations of the first kind"

by J.T. Marti / E.T.H. Zürich

Abstract : An algorithm is developed for the numerical computation of minimum norm solutions of Fredholm integral equations of the first kind $Kf = g$, where K has a symmetric kernel. The algorithm avoids collocation and is different from Tihonov's method. The method has the following geometrical interpretation : One is looking for a vector of minimum norm that lies in a given finite dimensional subspace and also in a given neighbourhood of the set of all solutions of $Kf = g$. It is shown that for a large class of operators K the algorithm converges and an estimate for the convergence rate is given. A number of examples are treated numerically.

WEDNESDAY 26 OCTOBER

ACADEMIC TRAINING

at 16.30 hrs - Auditorium

"General science monthly cross-section"

by R. Carreras.

JEUDI 27 OCTOBRE

ENSEIGNEMENT GENERAL

de 13h00 à 13h30 - Amphithéâtre

"Science pour Tous", par R. Carreras

Thème principal : Manipulations génétiques 1977.

INFORMATIONS

GENERALES

GENERAL INFORMATION

RENEWAL OF FRENCH CARDS

Members of the Staff and their families holding French Cards, delivered by the 'Ministère des Affaires Etrangères', that are due to expire end December 1977, should send them to the Personnel Records Office, Personnel Division, for extension of the period of validity.

It would be useful to keep a photocopy in case you should be asked to present the card.

Personnel Records Office
Ext. 4682/3854