

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

MEAL PRICES IN RESTAURANT No.3 (Prévessin)

When the price of the "Plat du Jour" in Restaurant No.3 was last fixed in May 1977, all the data required for final calculations were not available. In order to safeguard the interests of clients, the price was therefore deliberately set at a low level, pending the provision of the missing information by the manager.

This information was received last month and, in accordance with the Cahier des Charges, was examined by the Restaurant Supervision Committee.

Although certain elements require further clarification, the Restaurant Supervision Committee, in agreement with the Staff Association Representatives, agreed that it was necessary to implement a provisional increase in the price of the "Plat du Jour", which became Fr. 8.60 as from Monday, 20th February.

The price of the alternative dish was increased in the same proportion.

It has been decided to conduct a more detailed study in the coming weeks, and it is possible that other price changes may occur in consequence.

Restaurant Supervision Committee

CAISSE D'ASSURANCES - ELECTIONS

Les bulletins de vote ainsi que des informations sur les candidats sont en cours de distribution à toutes les personnes ayant droit de vote. Tout électeur n'ayant pas encore reçu ces documents le lundi 6 mars, est prié de se mettre en rapport avec l'Administration de la Caisse, bât.53, R-068, (téléphone 2738).

SECURITE PROPANE ZONE OUEST NEUTRINO

A partir du 1er mars 1978 et jusqu'au 14 juillet 1978, la chambre à bulles Gargamelle fonctionne en propane. Veuillez vous conformer aux consignes et règles de sécurité en vigueur dans la Zone Ouest Neutrino.

PROPANE SAFETY IN WEST AREA-NEUTRINO

From March 1st 1978 onward, to the 14th of July 1978, 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

STAFF INSURANCE SCHEME - ELECTIONS

Voting papers and information about candidates are in course of distribution to all persons entitled to vote. If you think you are entitled to vote and have not received voting papers by Monday 6 March, please contact the Administration of the Staff Insurance Scheme, Building 53, R-068, (telephone 2738).

SEMINARS **SEMINAIRES**

MONDAY 6 MARCH

ISR SEMINAR

at 14.30 hrs - ISR Auditorium
(Top floor of building 30)

"Lasers and accelerators"

by J.D. Lawson / Rutherford Laboratory

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - Theory Conference Room

"Theory of high-energy heavy-ion collisions"

by J.R. Nix / Los Alamos Scientific Lab.

Abstract : We discuss various theoretical approaches for describing high-energy heavy-ion collisions, with primary emphasis on relativistic fluid dynamics. This includes both conventional fluid dynamics and a two-fluid-dynamics model that permits the nuclei partially to interpenetrate each other upon impact. All models describe the gross features of the experimental cross-section $d^2\sigma/dE d\Omega$ for outgoing charged particles from reactions such as $^{20}\text{Ne} + ^{238}\text{U}$ at a laboratory bombarding energy per nucleon of 250 MeV, but at 30° the calculated values are about one-third the experimental values.

TUESDAY 7 MARCH

SC COMMITTEE

- Open Session

at 09.30 hrs - Council Chamber

Provisional Agenda :

1. Adoption of the Agenda.
2. Minutes of the meeting of 6 December 1977 (CERN/SCC/77-31).
3. Introductory remarks by L. Van Hove.
4. Announcements.
5. Report on the Joint Meeting of the PS and SC Committees held on 15 February 1978 (V. Soergel).
6. Proposals :
 - "Studies of binary fission of light nuclei induced by 600 MeV protons"; Lund-Oslo collaboration (CERN/SCC/78-5, SCC-P3);
 - "Proposal to determine the quadrupole moment in ^{185}Re and ^{187}Re from pionic and muonic X-rays"; Amsterdam-CERN-Kingston-Stockholm collaboration (CERN/SCC/78-6, SCC-P4).
7. Status reports on experiments in progress and requests for machine time.

- Closed Session

at 14.30 hrs - Conference Room
(6th floor - ADM Bldg.)

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Recent results from DASP"

by K.H. Mess / CERN

Abstract : Recent measurements by the DASP collaboration at the e^+e^- storage ring DORIS cover the J/ψ and the energy range 3.6 to 5.2 GeV. The $X_{2,8}$ appears now as a 5 s.d. signal. Preliminary data on $\sigma_{\text{tot}}(e^+e^- \rightarrow \text{hadrons})$ are presented. The F and F^ masses have been determined. Leptonic and semihadronic decays of the τ are studied. Evidence for the τ production at the ψ' is presented.*

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussion. Tea and coffee will be provided.

WEDNESDAY 8 MARCH

ISR COMMITTEE

- Open Session

at 09.30 hrs - Council Chamber

1. Information from the Research Director-General, L. Van Hove.
2. Status report from experiment R 606, presented by B. Naroska and J. Eickmeyer.

3. Status report from experiment R 702, presented by V. Hungerbühler.

- Closed Session

at 11.30 hrs - Conference Room
(6th floor - ADM Bldg.)

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"Scaling violations without the light cone"

by R. Petronzio / CERN

Abstract : The infra-red singularities arising from perturbative corrections to lowest order diagrams of QCD are related to the "scaling violations" of the elementary processes. Independently from the process involved (deep inelastic scattering, massive lepton pair production in hadron collisions by Drell-Yan mechanism, high p_T in hadronic collisions), and provided that the final state is sufficiently inclusive (one or more jets), the infra-red singularities associated with the smallness of parton masses and therefore "scaling violations" can be factorized in the distribution of partons initiating the reaction. The remaining hard elementary process can be computed by renormalization group improved perturbation theory.

DD SEMINAR

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

"Interactive languages and process control"

by J.A. Richter / CERN

Abstract : In software development criteria for maximum productivity are leading to the use of interactive languages. Today only a few projects have pioneered in the use of interactive languages in real-time. The seminar concentrates on one language : APL, and it deals with the general problems arising in an APL system dedicated to process control. The presentation is made specific by referring to experience gained with using APL on a medium-sized process control computer. The human operator paradox : the ability of humans to control complex processes to give a better performance than specially programmed computers has forced software engineers to analyse verbal protocols used to describe the dynamics of the systems. Fuzzy Set theory, developed in the late sixties, has made it possible to implement verbal protocols on computers. This approach has received much attention in the last few years, and the presentation will close by discussing an APL-based implementation of a verbal protocol.

WEDNESDAY 8 MARCH

CERN ENERGY SEMINAR (GENERAL LEVEL)

à 16h30 - Amphithéâtre (*)

"Essai delphi de prospective énergétique mondiale à l'horizon 2000-2025"

par R. Lattès / CEA

Résumé : Une vingtaine d'études sur ce sujet a vu le jour depuis 18 mois. Quelles sont les tendances moyennes qui s'en dégagent ? Quels en sont les éléments marquants ? Outre les convergences et les divergences, quels aspects essentiels, omis, devraient-ils faire l'objet d'études complémentaires ? Cette synthèse fournit une physionomie globale de la situation énergétique mondiale et met en évidence les solutions pour y faire face. Elle alerte sur les réalités et permet de mesurer la crédibilité et la viabilité de diverses politiques, ainsi que les efforts considérables à consentir si l'on veut éviter des crises très graves.

Ce séminaire et celui de A. Gauvenet du jeudi 9 mars se complètent. Ils peuvent cependant être suivis indépendamment.

(*) Note : Les personnes qui ont l'intention de suivre ce séminaire sont cordialement invitées à la Salle des Pas Perdus (face à la Salle du Conseil) à 16h00 pour rencontrer et discuter avec l'orateur. Thé et café seront servis.

THURSDAY 9 MARCH

ESO ASTROPHYSICS SEMINAR

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

"The infrared sky survey project IRAS"

by R.J. Van Duinen / Groningen Space Research Dept.

Abstract : Objectives of the IRAS survey, expected performance, some elements of the design, some ground-based follow-up programmes.

CERN ENERGY SEMINAR (GENERAL LEVEL)

à 16h30 - Amphithéâtre (*)

"Les nuisances liées à la production d'énergie"

par A. Gauvenet / CEA

Résumé : La production d'énergie, comme d'ailleurs toute activité humaine, présente des avantages et des risques. Il est important de tenter d'en faire un bilan objectif. Il faut procéder de façon comparative en prenant en compte tout le cycle de la production d'énergie, de la mine (s'il y a lieu) à la centrale et au-delà. Le nucléaire apparaît dans cette optique comme étant moins nuisant que le charbon ou le pétrole, plus nuisant par contre que le gaz naturel utilisé à sa source et que l'énergie hydro-électrique. Restent les problèmes sociaux et politiques qui paraissent plus aigus pour le nucléaire que pour d'autres sources. Encore faut-il les placer dans leur véritable contexte.

Ce séminaire et celui de R. Lattès du mercredi

8 mars se complètent. Ils peuvent cependant être suivis indépendamment.

(*) Note : Les personnes qui ont l'intention de suivre ce séminaire sont cordialement invitées à la Salle des Pas Perdus (face à la Salle du Conseil) à 16h00 pour rencontrer et discuter avec l'orateur. Thé et café seront servis.

MONDAY 13 MARCH

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - Theory Conference Room

"The pion-nucleus many-body problem"

by G.E. Brown / Nordita

TUESDAY 14 MARCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"J/ψ and dimuon production near threshold"

by A. Melissinos / Univ. of Rochester and CERN

FRIDAY 17 MARCH

SPECIAL COLLOQUIUM (*)

at 16.30 hrs - Auditorium

"The role of new neutrinos in cosmology"

by G. Steigman / Yale Univ.

(*) Please note that this colloquium will take place on a FRIDAY.

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

(Secrétariat : Tél. 2844)

TUESDAY 7 AND WEDNESDAY 8 MARCH

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"A general treatment of resonances in accelerators"

by G. Guignard / Lectures 1 and 2

Lectures 3 and 4 will be given next week on March 14 and 15 at the same time and place. For abstract, see last week's Bulletin and notices.