

COMMUNICATIONS OFFICIELLES

OFFICIAL NEWS

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

La reproduction même partielle de ces informations par des personnes ou des institutions externes à l'Organisation exige l'approbation préalable de la Direction du CERN.

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

Reproduction of all or part of this information by persons or institutions external to the Organization requires the prior approval of the CERN management.

QUATRE-VINGT QUATORZIEME SESSION DU CONSEIL DU CERN

Le Conseil du CERN a tenu sa 94^e session le 26 juin sous la présidence de Sir William Mitchell (Royaume-Uni).

La Hongrie, dix-huitième Etat membre

Les délégués au Conseil du CERN se sont levés pour applaudir l'entrée dans la salle du Conseil du Ministre Erno Pungor, Président du Comité d'Etat pour le développement technologique, à la tête de la délégation hongroise après le vote unanime par lequel la République de Hongrie a été admise en tant que 18^e Etat membre. Cette décision prendra effet le 1^{er} juillet 1992.

Le Ministre Pungor a souligné l'importance de l'adhésion au CERN pour la communauté scientifique hongroise en déclarant :

"Nous sommes enchantés de cette décision d'admettre la Hongrie au CERN car nos physiciens des hautes énergies pourront maintenant collaborer au plus haut niveau avec leurs collègues de toute l'Europe et du monde entier. Nous sommes en outre très heureux que nos ingénieurs et techniciens aient maintenant la possibilité d'apporter aux nouvelles installations du CERN une contribution qui engendrera des connaissances dans les technologies les plus avancées".

Etat de la coopération avec le Japon

Le Conseil a entendu un rapport sur la visite d'une délégation du CERN au Japon au début de juin 1992. Cette visite avait pour but d'établir des voies de communication plus directes en vue de la construction de la prochaine génération d'accélérateurs, par la conclusion d'un accord officiel de coopération.

Activités scientifiques du CERN et estimations budgétaires pour 1993-1996

Le Directeur général a présenté aux délégués au Conseil un document donnant des informations détaillées sur les activités scientifiques jusqu'à l'année 1996. L'excellente recherche au LEP se poursuivra jusqu'en 1994, année où l'amélioration de l'accélérateur

NINETY FOURTH SESSION OF CERN COUNCIL

The CERN Council held its 94th Session on 26 June under the chairmanship of Sir William Mitchell (United Kingdom).

Hungary, eighteenth Member State

CERN's Council delegates rose and applauded as Minister Erno Pungor, President of the National Committee for Technological Development, led the Hungarian delegation into the Council Chamber after the unanimous vote to admit the Republic of Hungary as CERN's 18th Member State. This decision will take effect as from 1 July 1992.

Minister Pungor underlined the importance of CERN membership to the Hungarian scientific community saying,

"We are delighted at this decision to admit Hungary to CERN as now our high energy physicists can collaborate at the highest level with colleagues from all over Europe and the world. Furthermore we are very pleased that our engineers and technicians will be able to contribute to the new installations at CERN which will generate expertise in the most advanced technologies."

The Status of Cooperation with Japan

Council heard a report on the visit of a delegation from CERN to Japan at the beginning of June 1992. The aim of the visit was to discuss more concrete channels of communication for the construction of the next generation of accelerators by concluding a formal cooperation agreement.

CERN's scientific activities and budget estimates 1993-96

The Director-General presented a document to Council delegates which detailed the planned scientific activities up to the year 1996. The excellent research at LEP will continue until 1994 when the upgrade of the accelerator (LEP 200) will permit the production of pairs of W particles. Research and development on the LHC accelerator and the detectors are going ahead with

(LEP 200) permettra la production de paires de particules W. Les travaux de recherche et de développement concernant l'accélérateur et les détecteurs LHC progressent à un rythme accru. La première expérience avec la nouvelle installation ISOLDE (séparateur d'isotopes en ligne) a débuté en juin de cette année et le CERN attend avec intérêt la continuation des excellentes recherches effectuées depuis 1967 avec l'installation ISOLDE originale.

Des informations préliminaires ont été données sur l'indice de variation des coûts pour 1993. Sur la base de l'indice genevois des prix à la consommation connu pour la période d'août 1991 à août 1992 et compte tenu de l'incidence de l'imposition, la moyenne pondérée du premier élément de l'adaptation des traitements du CERN est estimée à environ 4,6%. L'augmentation de l'indice de variation des coûts global du CERN sera de l'ordre de 3,5% pour 1992-1993.

Elections et nominations

M. Jan Bezemer (Pays-Bas) a été élu Vice-président du Conseil à la suite du décès inattendu du Professeur Pierre Lehmann en janvier 1992.

Le Professeur Giorgio Bellettini a été élu membre du Comité des directives scientifiques.

Le Conseil a convenu de prolonger les mandats de M. Paul Levaux (Belgique) et M. Jaques Vernet (Suisse) en qualité de membres du Conseil d'administration de la Caisse de pensions du CERN jusqu'en juin 1995. M. Levaux a aussi été renouvelé dans ses fonctions de Président du Conseil d'administration de la Caisse de pensions jusqu'au 31 décembre 1993.

Personnel supérieur

Le Président du Conseil et le Directeur général ont exprimé leur gratitude à M. John J. Thresher pour son éminente contribution aux travaux de l'Organisation. M. Thresher parviendra au terme de son second mandat de trois ans en qualité de Directeur de la recherche à la fin de juin 1992.

Le Conseil du CERN a renouvelé les mandats de cinq chefs de division – M. James V. Allaby, PPE, M. Pier Giorgio Innocenti, ECP, M. David Williams, CN, M. Gérard Bachy, MT et M. Lyndon R. Evans, SL – pour deux ans jusqu'au 31 décembre 1994.

increasing momentum. The first experiment on the new ISOLDE (Isotope Separator On-Line) facility started in June of this year and CERN looks forward to continuation of the excellent research which has been carried out by the original ISOLDE facility since 1967.

Preliminary information was given on the cost-variation index for 1993. On the basis of the known Geneva consumer price index from August 1991 to April 1992 and taking into account the effect of taxation, the weighted average of the first component of the CERN salary adjustment is estimated at about 4.6%. The increase of the overall CERN cost-variation index would be approximately 3.5% for the 1992-93 adjustment.

Elections and Appointments

Mr Jan Bezemer (Netherlands) was elected as joint Vice-President of Council after the sad and unexpected death of Prof. Pierre Lehmann in January 1992.

Dr Giorgio Bellettini was elected as a member of the Scientific Policy Committee.

Council agreed to extend the terms of office of Mr Paul Levaux (Belgium) and Mr Jacques Vernet (Switzerland) as Members of the Governing Board of the CERN Pension Fund until June 1995. Mr Levaux's position as Chairman of the Governing Board of the Pension Fund was also extended until 31 December 1993.

Senior Posts

The President of the Council and the Director-General both expressed their gratitude to Dr John J. Thresher for the outstanding contribution he has made to the work of the Laboratory. Dr Thresher comes to the end of his second three year term as Director of Research at the end of June 1992.

The Council of CERN renewed the mandates of five Division Leaders Dr James V. Allaby, PPE, Dr Pier Giorgio Innocenti, ECP, Mr David Williams, CN, Dr Gérard Bachy, MT and Dr Lyndon R. Evans, SL for two years until 31 December 1994.

ADVISORY COMMITTEE OF CERN USERS

Summary of the 16th meeting held on 25 May

Introduction

D. Toet, Chairman, opened the meeting welcoming the new members of ACCU representing Italy and Norway.

News from the CERN Management

P. Darriulat, speaking on behalf of the Director-General, welcomed the new Chairman of ACCU and wished him every success.

CERN had called upon the Member States to assist in the Eurolep payment, and some additional contributions have been promised. These will not cover the full amount (100 MSF), and some repercussions are expected to the scientific programme (e.g. stopping LEP and the SPS in late November). Other possible actions are yet to be defined.

Concern had been expressed at the last Fellows and Associates Selection Committee that fewer particle physics Fellows are being appointed, but more applied physics Fellows were. A small sub-committee has been set up to look into this question.

A written statement concerning the participation of young physicists from non-Member States in the Associates programme will be circulated to ACCU members.

Results of the Crèche survey

M. Borghini, President of the Staff Association presented the results of the questionnaire which had been published in the Weekly Bulletin. There had been 82 replies, representing 111 children, of which 23 already attend a crèche. The conclusion is that there is evidently a need for a crèche, but that CERN can not start one by itself. The Association is contacting firms faced with the same problems in the Meyrin/Cointrin region, and who are studying the possibility of opening one, to see if and under what conditions CERN could be associated with the project. It will then make a formal request to the CERN Management. ACCU supports the Staff Association in these deliberations.

Academic Training Committee

J. Schacher described the results of replies to questionnaires concerning Academic Training lectures and the Post Graduate lectures. The three topics polling the most number of votes for Academic Training lectures were 'Prospects for future energy supplies, General Relativity and Neural Networks in Physics'. The Post Graduate replies showed overwhelming satisfaction

with the programme, and half the replies indicated that there should be a change of most lecturers each year. The future preferred topics were 'General Relativity, Symmetry & Symmetry Breaking and Strings'. It was noted that there has been very little feedback on the utility of this programme to universities.

In the ensuing discussion only two universities were stated to have incorporated, or were considering so doing, this programme as part of their own coursework.

Users' Office news

As a follow up to the previous meeting, the Users' Office has written a letter to the Heads of all Member State Institutes bringing the whole question of insurance to their notice.

The Finance Committee has approved the construction and method of financing the proposed new physics building subject to certain conditions being met. Detailed finalizing of the plans are to be made in the next month. The plans for a new hostel will be presented to the June Finance Committee meeting.

As stated previously, CERN Identity Cards will become standard issue from 1 July 1992, and their date of expiry will be linked to that of the individual's CERN documents. Holders of these cards will find advantages rather than inconveniences, like suddenly no longer having access to LEP pits, provided that they re-register before the expiry date.

Telephone billing

H-F. Hoffmann reminded the meeting of the improvements made to the telephone system since the introduction of the STK system in July 1990. Many direct lines became available at this time, and so far 450 have been allocated. By increasing this to 800, it is expected that > 90% of calls currently made via the operator will go direct. PIN codes, intended to protect the individual, will be allocated on request to allow direct dialling. Call Accounting will be introduced on 1 August 1992, following a test run in June/July. Teams will receive 'voice communication funds' from the Divisions from a central budget. Direct dialling should not increase the cost to users of the telephone system. It is emphasized that the use of direct dialling is the responsibility of the individual owning a PIN code. The discussion showed that a few distinct problems remain to be resolved.

Insurance

ACCU Members reported on enquiries made in their own countries about the insurance coverage of people sent to work at CERN. In general most people seem to be

covered for accidents leading to disability or death, but a number of grey areas still remain. Where individuals take out a travel insurance to cover their stay at CERN, they should ensure that they are in fact covered for accidents whilst working at CERN. Tell the insurance agent the nature of work carried out at CERN.

The Evian LHC Meeting

W. Hoogland summarized the Evian LHC Meeting, at which 12 presentations covering pp detectors, Beauty physics, Heavy Ions and neutrino physics were made. Clear boundary conditions for the initial experimental programme indicate that there could be two main pp detectors, one general ion facility (plus ion physics with the pp detectors), and one or maybe two non-mainstream experiments. The tentative timetable would call for letters of intent by 1 October 1992, followed by open presentations in November. The first definition of the experimental programme would be made in December '92, and technical proposals would be presented in December '93. A "portable Evian" will visit Russia, Canada, Japan and China.

Restaurant Supervisory Committee Report

B. Nellen and D. Toet are the ACCU representatives on this committee. J.-L. van Elslande, Chairman, said that no money is budgetted for major renewal of equipment, some of which is known to be unsatisfactory. Most restaurants are normally modernised at frequent intervals. Since this is not normally allowed for in the budget, ACCU considers that the contractual terms should be reviewed. ACCU expressed concern at the state of certain equipment in the restaurants.

Proposed plans for an extension to Restaurant No.1 will be shown to the Restaurant Supervisory Committee.

Any other business

It was pointed out that new safety legislation in the UK clearly places the onus of responsibility for safety on the employer, and it was suggested that safety become a regular feature of the ACCU agenda. Further discussion covered the lack of sports facilities, lack of bicycle sheds, and micro-computer upgrades.

CONSEIL D'ADMINISTRATION DE LA CAISSE DE PENSIONS

Le rapport annuel 1991 de la Caisse de pensions, qui a été approuvé par le Conseil du CERN lors de sa session du 26 juin 1992, est disponible dans les secrétariats de division.

Les bénéficiaires de pensions qui désirent obtenir ce document sont priés de s'adresser à l'Administration de la Caisse (tél. 767 27 38), bât. 5, 1-030.

GOVERNING BOARD OF THE PENSION FUND

The 1991 Annual Report of the Pension Fund, which was approved by the CERN Council at its session of 26 June 1992, is available from Divisional secretariats.

Pension beneficiaries who wish to obtain this document should contact the Administration of the Fund (tel. 767 27 38), bldg 5, 1-030.

SEMINARS SEMINAIRES

Monday 6 July

AC SEMINAR

at 11.00 hrs – Auditorium

The Thermal Wave Model : a Schrödinger equation for charged particle distributions

by Renato FEDELE / University of Naples

Replacing Planck's constant by the emittance in the Schrödinger equation leads to an equation for a 'wave function' whose squared modulus yields the line density of a distribution of charged particles. A Wigner transform can be used to obtain the energy density, and hence the phase-space distribution. The time evolution of a charge distribution in the presence of linear or non-linear potentials can be studied using the large existing body of literature on the Schrödinger equation. The

main results of beam optics and particle dynamics can be reproduced, and new insights are obtained readily. Examples are shown for a final focus system of linear colliders, beam-plasma interactions, as well as non-linear beam dynamics in circular accelerators where solitons are predicted to appear under certain conditions.

* Please, note unusual place!

Monday 6 July

PPE SEMINAR

at 16.30 hrs – Auditorium

Observation of a narrow $p\bar{p}$ baryonium state at a mass of 2.02 GeV/c²

by V.F. PEREPELITSA / ITEP, Moscow & IFIC, Valencia

We have clearly observed a narrow $p\bar{p}$ baryonium state at a mass of 2.02 GeV/c² and a width of about 20 MeV/c², produced