



Week Monday 6 July

no 28/92

Semaine du lundi 6 juillet



Flag raising ceremony for the Czech and Slovak Federal Republic

During the Council Session on Friday 26 June, the Council delegates took part in a ceremony to hoist the Czechoslovak flag, in the presence of Sir William Mitchell, the President of Council, and the CERN Director-General Prof. Carlo Rubbia. The large crowd applauded as Mr Z. Pírek, Deputy Minister of Foreign Affairs, and Prof. J. Niederle, President of the Council of International Cooperation of the Czechoslovak Academy of Sciences, hoisted their country's flag for the first time.

See page 2 for more news from the Council Session.

Cérémonie de lever du drapeau de la République fédérative tchèque et slovaque

Lors de la Session du Conseil du vendredi 26 juin, les délégués au Conseil ont participé à la cérémonie de lever du drapeau tchécoslovaque en présence de Sir William Mitchell, Président du Conseil, et du Directeur général le Professeur Carlo Rubbia. Une foule nombreuse a applaudi M. Z. Pírek, ministre adjoint des affaires étrangères et le Professeur J. Niederle, Président du Conseil de la coopération internationale auprès de l'Académie des sciences, lorsqu'ils ont hissé pour la première fois le drapeau de leur pays au mât du CERN.

Pour les détails de la dernière session du Conseil, voir page 2.

COMMUNICATIONS OFFICIELLES

OFFICIAL NEWS

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

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

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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. Jacques 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 $2.02 \text{ GeV}/c^2$

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

We have clearly observed a narrow $p\bar{p}$ baryonium state at a mass of $2.02 \text{ GeV}/c^2$ and a width of about $20 \text{ MeV}/c^2$, produced

centrally in various baryon exchange reactions. The data come from the analysis of channels with one missing pion recorded in the WA56 experiment, at the Omega spectrometer. A similar state had been observed earlier (P. Benkheiri et al., Phys.Lett. 68B (1977) 483 and 81B (1979) 380). It had not been confirmed in backward production in the 4-C events of WA56 (Z. Ajaltouni et al., Nucl.Phys. B209 (1982) 301).

Tuesday 7 July

PRESENTATION

at 10.00 hrs – CN Auditorium
bldg 31/3-005

Creating software using Object Oriented Analysis and Design (OOX and teamwork)

by Knud BALSLEV / Support Manager, Cadre Technologies, Nyon & Chris Craddock / Business Manager, Pan Europe, Nyon

Cadre Technologies, leading supplier of workstation-based CASE tools, 350 persons, 50M\$ 1991 Object Oriented Analysis methods versus traditional Structured Methods. Brief introduction to different OOA methods. Some details of OOA from Steve Mellor and Sally Shlaer, Project Technology. Details about OOD and the OODLE notation also from Project Technology. Explanation of Recursive Design as the complete methodology for OOA extending it onto OOD. CASE Tool support for OOA and OOD Teamwork supports object oriented development according to Project Technology's OOA and OODLE notations, including diagram support, checking, reporting and C++ code building from the OODLE diagrams. Code capture facility as a step towards reverse engineering. Finish with discussion of the existing and future use of Object Oriented methods at CERN.

Info. : A. Daneels / AT / 2581 / DANEELS@CERNVM

Tuesday 7 July

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*

Measurement of τ polarisation with the L3 detector

by Richard P. MOUNT / California Institute of Technology

$Z^0 \rightarrow \tau^+ \tau^-$ events recorded by the L3 Detector in 1990 and 1991 have been used to measure the τ polarisation exploiting the precise calorimetry and tracking of the detector. Results based on the τ decay channels :

$$\begin{aligned}\tau &\rightarrow \rho \nu_\tau \\ \tau &\rightarrow \pi \nu_\tau \\ \tau &\rightarrow \mu \bar{\nu}_\mu \nu_\tau, \\ \tau &\rightarrow e \bar{\nu}_e \nu_\tau\end{aligned}$$

will be presented. The L3 τ -polarisation measurements lead to constraints on the electroweak coupling g_ρ which are comparable in precision to constraints derived from the observed di-lepton forward-backward charge asymmetries.

* Tea & coffee will be served at 16.00 hrs

Wednesday 8 July

SL SEMINAR

at 11.00 hrs – SL Auditorium
bldg 864, 1st floor, Prévessin

It's the tunnels which move, isn't? A physicists approach to accelerator component misalignment

by R. PITTHAN / SLAC, Stanford, USA

Once upon a time, just transplanted from nuclear physics into the world of high energy physics storage rings, the speaker noticed innocently a peculiar method of aligning the PEP storage ring. This "alignment" turned out to be the removal of a 10 mm mathematical artifact rather than the elimination of a real misalignment. From that deed to being stuck by management with the alignment of the Stanford Linear Collider 1000 arc combined function magnets assembled in 46 planes with different pitch and roll of large magnitude was a quick step. The talk will develop some useful concepts in planning and executing accelerator component alignment. Fitting the SLC arc magnets with mechanical movers was a step designed (among other things) to reduce the frequency of costly re-alignment. Based on observations on the SLAC linac, PEP, SPS, and LEP a more radical approach is proposed: preemptive misalignment. Preemptive mis-alignment and conceptual consequences for machine design parameters, and constructional and operational budgets and schedules are presented.

Wednesday 8 July

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

The challenge of light-cone quantizing gauge field theory

by H.C. PAULI / Heidelberg & CERN

In recent years, light-cone quantization of quantum field theory has emerged as a promising approach for solving bound state and related problems in the strong coupling regime. The approach has a number of unique and appealing features, among them that the ground state of the free theory is also a ground state of the full theory, that the relativistic wave function transforms trivially to a boosted frame, and last but not least, that the language is appealingly close to experiment and phenomenology. The methods in practice, particularly the Discretized Light-Cone Quantization and the Light-Cone Tamm-Dancoff approach, seem to be well suited to solving QCD. But they are sufficiently different from the standard approaches to field theory that new technologies need to be developed. They are designed to overcome the problems that have prevented other methods for the last twenty years from accurately calculating anything in the strong coupling regime of QCD. The methods require computing resources that are within the reach of present-day computers, and the general structure of the solution seems to have simple physical interpretations within the confines of the constituent quark model and the Feynman-Bjorken parton model. The methods, however, face a host of new challenges not seen in the usual approaches to field theory that must be overcome before tackling QCD. I shall try to review these new problems and the various proposed solutions that are currently being investigated.

Wednesday 8 July

COMPUTING SEMINAR

at 16.00 hrs – CN Auditorium
bldg 31/3-005

Visualizing the Fourth Dimension

by Andrew J. HANSON / CERN-CN & Indiana University

Four-dimensional objects are of great interest in both mathematics and theoretical physics, but they are notoriously difficult for humans to visualize. In this seminar, we will begin by introducing an attractive new approach for making computer graphics images of objects such as surfaces embedded in 4D. Then we will proceed to show how that work evolved here at CERN into a novel method for visualizing physical data described by a 3D scalar field. We will show a computer-animated videotape that illustrates the 4D imaging methods in detail, as well as a live computer animation of the data visualization methods for a simple 3D scalar field. Finally, time permitting, we will show a related computer animated videotape produced for a "general audience" that shows a family of remarkable 4D objects related to Fermat's Last Theorem.

Thursday 9 July

PRESENTATION

at 10.00 hrs – CN Auditorium
bldg 31/3-005

Embedding Alpha 21064 chips in on-line environments : hardware and software considerations

by Hans-Guenther WILLERS & Bernd LIND / Digital Equipment Corporation, Munich

Thursday 9 July

CERN COLLOQUIUM

Symposium in honour of
Professor Willibald Jentschke
on the occasion of his 80th birthday

at 15.30 hrs* – Auditorium

Welcome address

by Carlo RUBBIA / Director-General

Willi Jentschke, the fellow Austrian

by Victor WEISSKOPF / MIT

Years at DESY and at CERN.

DESY and other beauties

by Herwig SCHOPPER / University of Hamburg & CERN

Coffee break : 16.30–17.00 hrs

Photons and heavy photons

by Ulrich BECKER / MIT-ETH

From β decay to the Standard Model

by Klaus WINTER / CERN

* Please note the unusual time

Friday 10 July

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Beamstrahlung and minijets at super e^+e^- colliders

by Rohini GODBOLE / CERN and University of Bombay

We discuss different reactions at future e^+e^- and gamma gamma colliders involving real (beamstrahlung and backscattered laser) or quasi-real (bremsstrahlung) photons in the initial state and hadrons in the final state. We show that the hadronic structure of the photon along with beamstrahlung phenomena can give rise to large hadronic backgrounds at linear, super e^+e^- colliders. We find very large differences in expected backgrounds between existing designs for future e^+e^- colliders, due to different beamstrahlung spectra. In particular both designs with $<<1$ and $>>1$ two-photon events per bunch crossing exist. These backgrounds will become even worse if an e^+e^- collider is converted into a gamma gamma collider.

Monday 13 July

AC SEMINAR

at 11.00 hrs – Auditorium*

B Factory at CESR

by Karl BERKELMAN / Cornell University

One of the important goals of particle physics is the understanding of the origin of the phenomenon of CP violation, so far seen only in neutral kaon decays. A proposal has been submitted to the US National Science Foundation to upgrade the Cornell Electron-Positron Storage Ring (CESR) to a B Factory, an asymmetric e^+e^- collider operating at the Upsilon-4S resonance and optimized for the study of CP violation in B meson decays. The luminosity goal is $3 \times 10^{33} \text{ cm}^{-2} \text{ s}^{-1}$ and the ring energies 8 and 3.5 GeV. The B Factory design makes use of the existing CESR 8 GeV ring, the linac-synchrotron injector, and the recently rebuilt CLEO-II detector. The unique features of the CESR B Factory design include angle crossing and superconducting RF cavities. The project is proceeding in phases. Presently, we are upgrading CESR to increase its luminosity (now $2.5 \times 10^{32} \text{ cm}^{-2} \text{ s}^{-1}$) by circulating more bunches, colliding at angle, and replacing RF and vacuum components to make it possible to store larger currents. The detector is also being upgraded in data acquisition rate and vertexing capability. Later we expect to add a second ring to CESR.

* Please, note unusual place!

Tuesday 14 July

CERN COLLOQUIUM

at 16.30 hrs – Auditorium

Fullerenes and Fullerites : New Forms of Carbon

by W. KRÄTSCHMER / Max Planck Institut für Kernphysik, Heidelberg

EDUCATION SERVICES EDUCATIFS

SUMMER STUDENTS LECTURE PROGRAMME

Next week

Date	Time	Title	Lecturer
Wed. 15 July	09.00	Opening session	---
	10.15	An introduction to CERN (1)	P. Darriulat
	11.15	The early universe as seen through the deep structure of matter (1)	M. Jacob
Thu. 16 July	09.00	An introduction to CERN (2)	P. Darriulat
	10.15	The Standard Model (1)	R. Kleiss
	11.15	The early universe as seen through the deep structure of matter (2)	M. Jacob
Fri. 17 July	09.00	An introduction to CERN (3)	P. Darriulat
	10.15	The Standard Model (2)	R. Kleiss
	11.15	-----	---

While these lectures are prepared for Summer Students who are at CERN this summer, they are open to anyone at CERN. Many of these lectures treat topics at general level, such that they are a good opportunity for a staff member to find out more about something outside their daily work.

All lectures are given in English and held in Auditorium from 15 to 31 July and in the Council Chamber from 3 to 19 August.

Fellows & Associates Service
Tel. 4471

INFORMATIONS GENERALES GENERAL INFORMATION

AUX UTILISATEURS DES ATELIERS MT

Dès le 1er septembre, les bons roses "Demandes de travaux et d'ouverture de job" ne seront plus acceptés. A partir de cette date, vous devrez utiliser le nouveau formulaire que vous pouvez obtenir dès maintenant dans tous les services de ces ateliers.

Div. MT-MF

TO USERS OF THE MT WORKSHOPS

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Div. MT-MF

DESKTOP PUBLISHING (DTP) SERVICE

Vous devez écrire un article, un rapport, faire une présentation. Vous êtes dubitatif quant à la façon de le faire. Une seule solution, venez nous voir avec :

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La mise en page finale intégrera texte et figures.

Ce service est à votre disposition, soit au bâtiment 510-1, soit au bâtiment 4-2-19, adressez-vous à Michèle Jouhet / 2123 / JOUHET@CERNVM ou Susan Leech O'Neale / 2438, le matin / LEECH@CERNVM.

De toute façon nous essayons de faire au mieux dans le plus court laps de temps, surtout si chacun y met de la bonne volonté.

ON RECHERCHE ...

La personne qui a emprunté un chariot jaune équipé de 3 ridelles amovibles en Antico est priée de le restituer aux utilisateurs du bâtiment 101 (ancien atelier Ouest). Ce chariot, muni de 4 anneaux, est spécialement conçu pour le transport d'objets d'un étage à un autre à l'aide de palonniers et d'un pont roulant.

Contact téléphonique 3368.

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- b) on a diskette in MacPaint, MacDraw, Adobe, etc.
- c) as a PostScript file
- d) as a very good original.

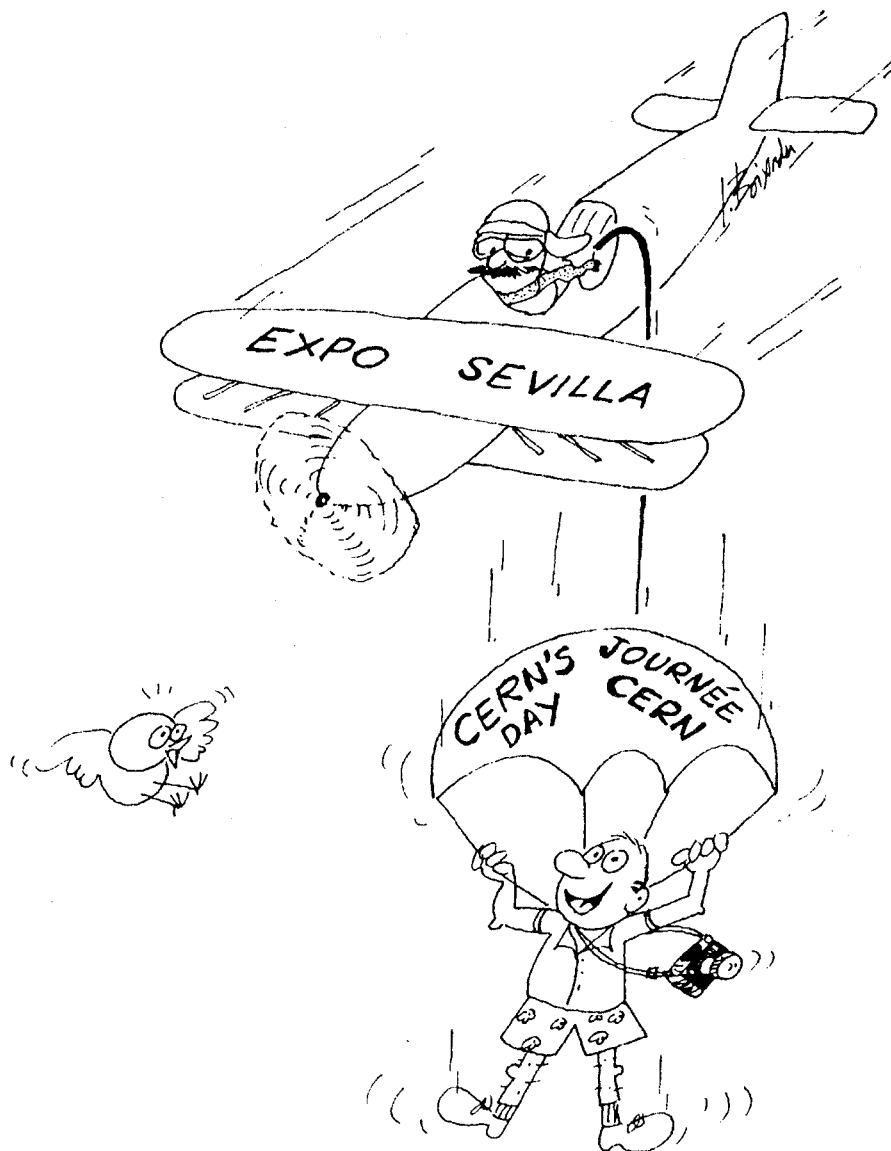
You will find :

- experts who will make drawings for you on the Macintosh,
- experts who will digitize your originals or photos.

The final page make-up will incorporate text and figures.

This service is at your disposal in buildings 510-1 and 4-2-19. Contact Michèle Jouhet / 2123 / JOUHET@CERNVM or Susan Leech O'Neale / 2438 / mornings only, LEECH@CERNVM.

We shall do the best we can in the briefest possible time, provided there is a bit of goodwill on both sides.



**OCCASION UNIQUE
JOURNÉE CERN À L'EXPO DE SEVILLE
LE 30 SEPTEMBRE!**

Passez un jour (et près d'une nuit) à l'Expo le 30 septembre pour l'inoubliable journée du CERN !

Départ de Genève-Aéroport le 30 septembre à 06.00 h le matin. Retour à Genève le 1er octobre à l'aube. Prix Fr.s. 490.-.

Les 200 premiers inscrits bénéficieront de l'entrée gratuite à l'Expo. (valeur Fr.s. 60.-).

N'attendez pas, inscrivez-vous dès maintenant !

**CHANCE OF A LIFETIME !
CERN'S DAY OF HONOUR
AT EXPO 92 !**

Spend a memorable day and night on 30 September at Expo 92 in Seville!

A special charter leaves Geneva Airport at 6.00 a.m. Spend all day at Expo 92, take full advantage of the fun night life at the Expo site and fly back to Geneva at dawn! Cost : SFr. 490.-.

The first 200 applicants will get a free entry to Expo (worth SFr. 60.-) so don't waste any more time, sign up now !



A retourner à Régine Chareyron, Service des Visites / DG

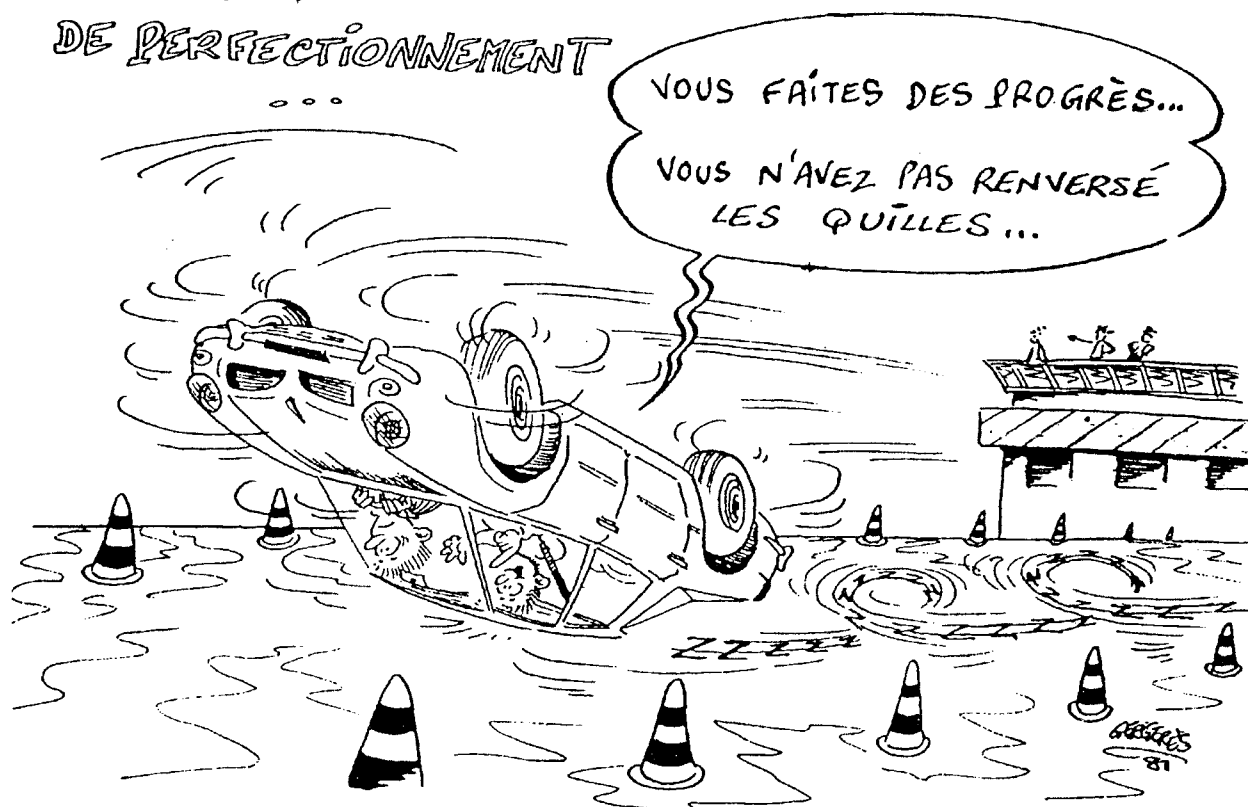
Return to Régine Chareyron, Visits Service / DG

Je m'inscris à la journée du CERN le 30 septembre. Je serai accompagné(e) de personnes.

I want to sign up for the 30 September at Expo 92. I will be accompanied by persons.

Nom / Name : Prénom / First Name : Div. :

OFFRE GRATUITE DE PERFECTIONNEMENT



COURS DE CONDUITE AU PLANTIN

Vous avez entre 18 et 25 ans, vous êtes jeune conducteur, membre ou non membre du T.C.S., ceci vous intéresse.

A l'occasion de la campagne sécurité et pour son 75^e anniversaire la section genevoise du T.C.S. vous offre un cours de conduite **gratuit** d'une demi-journée (les lundi, mardi, jeudi et vendredi) sur la piste du Plantin, et ceci à partir du mois de juillet.

Renseignement et réservation en téléphonant au : 735.46.53.

RESTAURANTS

FERMETURE DU RESTAURANT N° 2 LE SAMEDI (REPAS DE MIDI)

Une baisse considérable de la fréquentation du samedi a été constatée en 1991 pendant les mois de juillet et d'août.

Afin d'éviter une pression indue sur les coûts d'exploitation, donc sur les prix payés par les clients, il a été décidé de **suspendre** le service du repas de midi **dès le samedi 11 juillet 1992.**

Ce service reprendra
le samedi 28 août 1992.

Le Comité de Surveillance des Restaurants
Tél. 4469

RESTAURANTS

CLOSURE OF RESTAURANT N° 2 ON SATURDAYS (MID-DAY MEAL SERVICE)

There was very little demand for the **Saturday mid-day meal service** during the months of July and August in 1991.

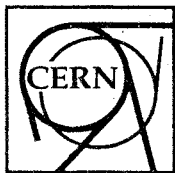
In order to avoid undue pressure on the restaurant running costs (and thus on the prices paid by the clients), it has been decided to **stop the mid-day meal service** as from

Saturday 11 July 1992.

It will be resumed as from
Saturday 28 August 1992.

Restaurant Supervisory Committee
Tel. 4469

Bulletin ASSOCIATION du PERSONNEL STAFF ASSOCIATION



Siège: Genève, Suisse
Seat: Geneva, Switzerland

Les informations paraissant dans la rubrique "Association du Personnel" sont publiées sous la seule responsabilité de l'Association du Personnel du CERN.

The information presented in the Staff Association section of the Bulletin is published under the sole responsibility of the CERN Staff Association.

STAFF_ASSOCIATION@MACMAIL.CERN.CH

Tel. 2819/4224

30 juin 1992

ASSISES DE L'ASSOCIATION DU PERSONNEL

et

ELECTION DU NOUVEAU COMITE EXECUTIF

Les Assises de l'Association se sont déroulées le jeudi 25 juin et le vendredi 26 au matin.

Elles ont été l'occasion pour les anciens et les nouveaux délégués de l'Association de se rencontrer et de discuter de sujets généraux :

- rôle et structures de l'Association, moyens d'action, évolutions possibles;
- rôle et activités de ses délégués et relations avec le personnel;
- relations avec la Conseil du CERN et la Direction
(Le mardi 23 juin, une réunion informelle s'est tenue entre le Président et les deux vice-présidents du Conseil, le Directeur général, le Président et les deux vice-présidents de l'Association. Elle a été l'occasion d'un échange de vues sur des sujets d'intérêt commun);
- actions légales en cours;
- planification des activités et des ressources;
- révision des Statut et Règlement du personnel;
- filières de carrière et résultats du questionnaire de l'Association sur les entretiens annuels (nous les publierons prochainement);
- garanties des pensions;
- assurance-maladie;
- hygiène et sécurité, etc..

Le nouveau Conseil du Personnel s'est réuni le vendredi 26 juin après-midi.

Il a réélu pour un an le Comité exécutif sortant, à l'unanimité moins une abstention.
Le Comité exécutif a tenu sa première réunion hebdomadaire le lundi 29 juin après-midi.

Suite aux discussions qui ont eu lieu pendant les Assises, il a pris certaines décisions concernant les relations avec la Direction générale et les contacts avec les délégations des Etats membres, particulièrement avec ceux qui se sont récemment joints à l'Organisation.

ASSIZES of the STAFF ASSOCIATION

and

ELECTION OF THE NEW EXECUTIVE COMMITTEE

The Staff Association Assizes took place on Thursday the 25th June and Friday morning, the 26th.

It was the occasion for old and new delegates of the Association to meet and to have a general discussion on a number of subjects:

- role and structures of the Association, means of action, possible evolutions;
- role and activities of its delegates and relations with the Staff;
- relations with the CERN Council and the management
(on Tuesday 23rd June, there had been an informal meeting between the President and the two Vice-Presidents of the CERN Council, the Director General, the President and the two Vice-Presidents of the Association. This had allowed an exchange of points of view on topics of common interest);
- legal actions in progress;
- planning of activities and resources;
- modifications to the Staff Rules and Regulations;
- career paths and the results of the Staff Association questionnaire on the annual interviews (we will publish this shortly);
- pension guarantees;
- health insurance;
- health and safety, etc.

The new Staff Council met on Friday afternoon the 26th June.

The outgoing Executive Committee was unanimously re-elected, with one abstention, for a further year.

The Executive Committee held the first weekly meeting of its new mandate on Monday afternoon, the 29th June.

Following the discussions at the Assizes, it took certain decisions concerning relations with the Management and the delegates of the Member States, in particular with those who have recently joined the Organization.

* * * *

COMITE EXECUTIF / EXECUTIVE COMMITTEE 1992 - 1993

Président /President:	Michel BORGHINI /PPE
Vice-présidents /Vice-President:	Derek BALL /AS Michel VITASSE /SL
Trésorier /Treasurer:	Raymond COLLOMB /FI
Secrétaire / Secretary:	Michel HANSROUL /ECP
Membres / Members :	Gérard ANTOINET /TIS Marcel AYMON /PE Vinod CHOCHAN /PS

CLUBS



CROQUET

The first-ever international croquet match to be played in Switzerland (a Switzerland-Ireland friendly) was played on the CERN lawns on Saturday 27th and Sunday 28th June. This was a return match following our visit to Dublin in August 1991, when after the four doubles and eight singles, the score was 6 all, Switzerland winning 77 - 55 on points.

This year at CERN, Switzerland, represented by Ian Sexton, Peter Payne, Steve Hillier and Norman Eatough, came out winners by eight games to four, a very encouraging victory for our relatively inexperienced team. The social side of the visit was also very much in evidence.

The next match is on 25/26th July when the team travels to Edinburgh to play Scotland. Some serious training will be required in the meantime!

Information: 3333 or 13 + 3333.

Le premier match international de croquet en Suisse (Suisse-Irlande en amical) s'est déroulé sur les gazons du CERN les 27 et 28 juin. Il s'agissait d'un match retour suite à notre visite à Dublin en août 1991, où suite aux quatre doubles et huit simples, le score était à 6 partout. La Suisse avait remporté le match par 77 - 55 aux points.

Cette année au CERN, la Suisse, représentée par Ian Sexton, Peter Payne, Steve Hillier et Norman Eatough, est sortie vainqueur par huit jeux à quatre, victoire très encourageante pour notre équipe relativement inexpérimentée. Le côté social de la visite était aussi très marqué.

Le prochain match se déroulera les 25 et 26 juillet, lorsque l'équipe se déplace à Edimbourg pour affronter l'Ecosse. De l'entraînement sérieux sera nécessaire entretemps!

Informations: 3333 or 13 + 3333.



RADIO AMATEUR

Le barbecue annuel aura lieu le dimanche 5 Juillet à partir de 11 heures sur le site du Restaurant CERN-Prévessin. Le changement de site était nécessaire à cause de l'endommagement de la zone pique-nique par de fortes pluies. Toute personne intéressée est la bienvenue. S.v.p. amenez vos grillades et boissons. Une station radio sera montée. La fréquence de radioguidage est 145.525 MHz FM simplex.

Pour de plus amples renseignements ou pour une visite de notre station radio "FF1CAR" veuillez contacter Claudia-Elisabeth Wulz, Tél. 6592 ou RADIO@CERNVM.

AMATEUR RADIO

The annual barbecue will take place on July 5 starting at 11 hours on the premises of CERN's Restaurant at Prévessin. The change of site was necessary due to the damage to the picnic area caused by the heavy rain. Everybody interested is welcome. Please bring what you wish to eat or drink. A radio station will be mounted. The talk-in frequency is 145.525 MHz FM simplex.

For further information or for a visit to our club station "FF1CAR" contact Claudia-Elisabeth Wulz (Tel. 6592 or RADIO@CERNVM).

VELO

Prochaines sorties :

SAMEDI 4 JUILLET : Départ à 14h00, centre de Veyrier pour 55 kilomètres.

SAMEDI 11 JUILLET : 2 parcours au choix :

1er parcours : Départ à 10h00, piscine de Ferney Voltaire pour 134 kilomètres, le repas se fera à mi-chemin, prévoyez de l'argent de poche.

2ème parcours : Départ à 13h30, piscine de Ferney Voltaire pour une sortie "à la demande", les présents choisiront le kilométrage et la direction."



CRICKET

Geneva Sri Lankans CC versus CERN CC on 27/06/92

In the third league match of the season, CERN were given an immediate morale booster on learning that the opposition's star batsman was not playing. Unfortunately, this did not last long as the number 3 batsman proved to be equally as good, if not better! After 20 overs, the score stood at 155 for 2. At this point, a short drinks break obviously disturbed the batsmen's concentration, for 2 wickets fell without addition to the score.

Shortly afterwards, Norman was dismissed, having made 115 out of 173, but the runs continued to flow, although not as quickly as before. Eventually, the Sri Lankan total reached 281 for 5 wickets off their 40 overs. CERN made a spirited reply to this huge score, with a record first wicket partnership of 106. The strike rate was not as impressive as in the Sri Lankan innings, and after 20 overs only 98 runs had been scored (compared to 155). George Skouroumounis, in probably his last match for CERN, benefited from lax fielding to reach 85 before at long last hitting the ball to a fielder who could catch. Mike Sale then managed to hit his first 50 for several years, but when he went for 57 only 11 overs remained to score 120, a very tall order. 50 runs were added in 7 overs, leaving 64 to be made in the last 4 overs, but the loss of 4 wickets in quick succession made this impossible and the final score was 222 for 9, CERN thus losing by 59 runs.

The next fixture is on **Saturday 11th July** away versus Bern CC.

For further information on the Cricket Club, please contact :

M. Davenport (2086 13-5159;
DAVENPOR@CERNVM) or
C. Onions (5039; ONIONS@CERNVM).

COOPERATIVES

INTERFON

(Bât. 563)

Avant le 17 juillet 1992 : prix promotionnel uniforme pour tous les adhérents de la Coopérative, à partir du 29 juin jusqu'au 17 juillet 1992 inclus sur le fuel.

Promotion video music : pour le mois de juillet 1992, télévision + magnétoscope Thomson.

Recommandation : le Secrétariat d'INTERFON apprécierait que les adhérents payent leurs factures à réception et que le No. de carte soit indiqué au dos du chèque.

1er mardi du mois : 7 juillet 1992 - Permanence technico commerciale.

DIMENO FIMA : menuiseries intérieures et extérieures, portails, clôtures.

BATI-SERVICE : charpente, couverture, menuiseries aluminium, sas d'entrée, fermeture de loggia, etc..

COOPIN

(Bât. 563)

Information Coopin par VM:XNEWS (COOPIN)

Travaux photos :

films couleurs et dias toutes marques! traités chez KODAK à Lausanne.

Films noir et blanc traités par Photo Service également à Lausanne.

Connaissez-vous bien les différentes possibilités qui vous sont offertes ? le programme complet est à votre disposition au magasin avec les tarifs.

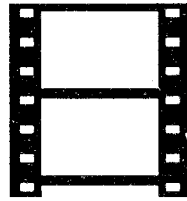
Nombreux services : du tirage standard aux travaux spéciaux (posters, cartes de voeux, copies directes, etc..).

Hi-Fi : en rayon, un très grand choix de walkmans

Horlogerie : réveils CASIO et BRAUN, digital ou analogique, vous trouverez le réveil qui vous convient.

Rasoirs OFF-SHORE vibrants à lame, le rasage à la crème avec un appareil électrique, de CHF 26 à CHF 42.50.

CINE-CLUB CERN



JEUDI 9 JUILLET 1992, à 20h.30

THURSDAY 9 JULY 1992, at 8.30 pm

AMPHITHEATRE DU BATIMENT PRINCIPAL /MAIN AUDITORIUM

THE DOORS

of/de O. Stone

with/avec V. Kilmer, K. Dillon, F. Whaley

Ce film relate la vie mouvementée du chanteur Jim Morrison de son enfance des années 50 à son adolescence et sa déchéance, en passant par les années de gloire du groupe DOORS, dont J. Morrison est la figure symbolique.

Le thème pourrait paraître banal, mais Oliver Stone, metteur en scène "bulldozer" de sujets délicats et controversés, a su recréer, grâce à la prestation de Val Kilmer, et aussi à quelques outrances dans la reconstitution, l'emprise fascinante de ce fameux groupe sur la jeunesse des années 60 et la personnalité emblématique de ce chanteur légendaire.

This film recounts the turbulent life of singer Jim Morrison from his childhood in the fifties through adolescence and the years of success with the Doors. The theme is simple enough, but the film's director Oliver Stone has really recreated, thanks to the performance of Val Kilmer in the role of Jim and some exaggerations, the fascinating influence the group, with its mystical lead singer composer, had on the youth of that time.

English dialogue with French sub-titles
Version originale anglaise sous-titrée Français

Entrée/entrance CHF 7.-

CERN Musicclub + Microclub

present

the 4th

18 July
Julliet
Luglio 1992

Main Building Terrace

or inside in case of rain
ou à l'intérieur en cas de pluie

CERN Hadronic Festival

NON-STOP LIVE MUSIC

from 16:00 to midnight
with the finest CERN bands!

grill - bar - music - dance - fun
entrée libre - free entrance

Restaurants

Plats conventionnés (déjeuner / lunch)

Semaine du 6 juillet

Restaurant Concessionnaire	no 1 COOP	no 2 DSR	no 3 Générale de Restauration
Bât. / bldg Site	501 Meyrin	504 Meyrin	866 Prévessin
Prix	a) 6.30 FS b) 7.40 FS	a) 7.10 FS b) 8.10 FS	a) 19.60 FF b) 22.70 FF
Lundi Monday	a) Sauté de dinde Cornettes au beurre Carottes Vichy b) Filet de plie pané Pommes nature Brocolis	a) Escalope de poulet cordon bleu Pommes rissolées Salade verte b) Bœuf bourguignon Spätzlis au beurre Carottes glacées	a) Jambon blanc poché au vin blanc Choux-fleurs gratinés b) Steak de bœuf avec oignons frits Frites Haricots verts vapeur <i>ENTRECÔTE POËLÉE 29.00 FF</i>
Mardi Tuesday	a) Steak d'agneau haché Flageolets Tomate b) Rôti de veau Pommes en dés Haricots verts	a) Émincé de porc aux champignons Pâtes au beurre Salade verte b) Roulade de veau à la sauge Rôsti dorés Choux-fleurs	a) Filet de lieu noir au citron Riz aux oignons b) Sauté de dindonneau à la bourguignonne Épinards en branches Macédoine de légumes <i>ANDOUILLETTE À LA MOUTARDE 29.00 FF</i>
Mercredi Wednesday	a) Escalope de dinde cordon bleu Pommes mousseline Petits pois b) Sauté de bœuf Spirettes Courgettes	a) Rognons de bœuf à la bière Riz pilaf Salade verte b) Gigot d'agneau rôti aux herbes Gratin dauphinois Haricots verts	a) Boulettes de bœuf sauce piquante Pommes mousseline b) Poulet grillé au barbecue Carottes Vichy <i>STEAK À LA DEMANDE 22.70 FF</i>
Jeudi Thursday	a) Émincé de porc Riz blanc Ratatouille b) Poulet rôti Pommes frites Ratatouille	a) Rôti de dinde aux poivrons Pommes lyonnaises Salade verte b) Sauté de veau printanier Cornettes Brocolis	a) Omelette au gruyère et fines herbes Ratatouille de légumes b) Steak haché à la savoyarde Semoule aux raisins Courgettes au beurre
Vendredi Friday	a) Rognons sautés chasseur Riz blanc Choux-fleurs b) Truite au bleu Pommes nature Épinards	a) Anneaux de calamars à la provençale Riz créole Salade verte b) Carré de porc en croûte Pommes croquettes Ratatouille	a) Frisettes de poisson sauce rémoulade Coquillettes au beurre b) Côte de porc grillée au barbecue Salsifis à la tomate Haricots beurre en persillade

Heures
d'ouverture :

Restaurant no. 1
Lundi au vendredi :
de 07h00 à 01h00
Samedi et dimanche :
1. Cafétéria
de 07h00 à 23h00
2. Restaurant
de 11h30 à 14h00 et de
18h00 à 19h30

Restaurant no. 2
Lundi au vendredi :
de 06h30 à 18h00
Samedi :
de 11h00 à 14h00

Restaurant no. 3
Lundi au vendredi :
de 07h00 à 09h00
de 11h30 à 14h00

Calendrier hebdomadaire

1992

Weekly Calendar

Lundi Monday	6.7	Mardi Tuesday	7.7	Mercredi Wednesday	8.7	Jeudi Thursday	9.7	Vendredi Friday	10.7
11.00 A	AC SEMINAR The Thermal Wave Model : A Schrödinger equation for charged particle distributions by Renato FEDELE / University of Naples	10.00 CN	PRESENTATION Creating software using Object Oriented Analysis and Design (OOX and teamwork) by Knud BALSLEV / Cadre Technologies, Nyon & Chris CRADDOCK / Pan Europe, Nyon	11.00 S	SL SEMINAR It's the tunnels which move, isn't? A physicist's approach to accelerator component misalignment by R. PITTHAN / SLAC, Stanford, USA	10.00 CN	PRESENTATION Embedding Alpha 21064 chips in on- line environments : hardware and software considerations by Hans-Guenther WILLERS & Bernd LIND / Digital Equipment Corporation, Munich	14.00 TH	MEETING ON PARTICLE PHYSICS PHENOMENOLOGY Beamstrahlung and minijets at super e ⁺ e ⁻ colliders by Rohini GODBOLE / CERN and University of Bombay
16.30 A	PPE SEMINAR Observation of a narrow p \bar{p} baryonium state at a mass of 2.02 GeV/c ² by V.F. PEREPELITSIA / ITEP, Moscow & IFIC, Valencia	16.30 A	CERN PARTICLE PHYSICS SEMINAR Measurement of τ polarisation with the L3 detector by Richard P. MOUNT / California Institute of Technology	14.00 TH	THEORETICAL SEMINAR The challenge of light-cone quantizing gauge field theory by H.C. PAULI / Heidelberg & CERN	15.30 A	CERN COLLOQUIUM Symposium in honour of Prof. W. Jentschke on the occasion of his 80th birthday <i>Details of programme page 7</i>		
	13.7		14.7		15.7		16.7		17.7
11.00 A	AC SEMINAR B Factory at CESR by Professor Karl BERKELMAN / Cornell University	16.30 A	CERN COLLOQUIUM Fullerenes and Fullerenes : New Forms of Carbon by W. KRÄTSCHMER / Max Planck Institut für Kernphysik, Heidelberg	09.00 A	SUMMER STUDENTS LECTURES Opening session An introduction to CERN (1) by P. DARRIULAT	09.00 A	SUMMER STUDENTS LECTURES An introduction to CERN (2) by P. DARRIULAT	09.00 A	SUMMER STUDENTS LECTURES An introduction to CERN (3) by P. DARRIULAT
				10.15	10.15	10.15	10.15	10.15	10.15
				11.15	11.15	11.15	11.15	11.15	11.15

A	Auditorium / bldg 500 Amphithéâtre / bat. 500	Th	Theory Conference Room / bldg 4 Salle Théorie / bat. 4	DC	6th Floor Conference Room, bldg 60 Salle de conférence du 6e étage, bat. 60	CN	CN Auditorium - bldg 31/3-005 Amphithéâtre CN - bat. 31/3-005 place as indicated lieu selon indication	Deadline for insertion : Tuesday 12.00 hrs Staff Association : bldg 64/R-002, tel. 2819 Communications Section (DC) : bldg 50/1-030, tel. 3475 e-mail : weekly_bulletin@macmail staff_association@macmail
C	Council Chamber / bldg 503 Salle du Conseil / bat. 503	PS	AT Auditorium / bldg 30, 7th floor Amphithéâtre AT / bat. 30, 7e étage PS Auditorium / bldg 6, 2-024 Amphithéâtre PS / bat. 6, 2-024	S	SL Auditorium - Prévestin / bldg 864, 1st fl. Amphithéâtre SL - Prévestin / bat. 864, 1er ét.	E	ECP Conference Room, bldg 13/2-005 Salle de conférence ECP, bat. 13/2-005	Dernier délai pour insertions : mardi 12.00 h Association du Personnel : bat. 64/R-002, tel. 2819 Section Communications (DC) : bat. 50/1-030, tel. 3475