

TRAINING AND EDUCATION ENSEIGNEMENT

1991 – 1992 ACADEMIC TRAINING PROGRAMME

1st Term

LECTURE SERIES FOR POSTGRADUATE STUDENTS

1, 3, 8, 9 & 11 October

10.30-12.00 hrs – Auditorium

Quantum Field Theory

by B. DE WIT / Rijksuniv. Utrecht

14, 15, 18, 20 & 22 November

10.30-12.00 hrs – Auditorium

QCD

by J. STIRLING / Science Lab. Durham

21, 23, 25, 28 & 30 October

10.30-12.00 hrs – Auditorium

Electro-weak Interactions

by R. KLEISS / CERN-TH

2, 3, 5 & 6 December

11.00-12.00 hrs – Auditorium

Beyond the Standard Model

by L. IBANEZ / CERN-TH

LECTURE SERIES FOR ACADEMIC TRAINING

2, 4 & 7 October

11.00-12.00 hrs – Auditorium

1. Improvement of classical accelerators by lasers

2. Laser accelerators with and without plasmas

3. Laser accelerators in vacuum

by Heinrich HORA / CERN-PS

25, 26, 27, 28 & 29 November

11.00-12.00 hrs – Auditorium

Applied superconductivity, DC and RF

by E. HAEBEL / CERN-AT

4 & 5 November

10.30 -12.00 hrs – Auditorium

Present status of software engineering

by R. PRESSMANN / Ibex Computing, Archamps,
France

9, 10, 11 & 12 December

11.00-12.00 hrs – Auditorium

Standard Model physics at LHC

by D. DENEGRI / CERN-PPE

16, 17, 18 & 19 December

11.00-12.00 hrs – Auditorium

LHC Physics beyond the Standard Model

by F. PAUSS / CERN-PPE

The lectures in both series are open to all those interested, without application.

The abstract of the lectures, as well as any change to the above information (title, dates, time place, etc.) will be

published in the CERN Bulletin and by Notices before each Term and for each series of lectures.

ACADEMIC TRAINING

Tel: 2844-3674

2, 4, & 7 October

11.00-12.00 hrs – Auditorium

1. Improvement of classical accelerators by lasers
2. Laser accelerators with and without plasmas
3. Laser accelerators in vacuum

by Heinrich HORA / CERN-βPS

Of the unconventional accelerator techniques those including lasers are reported. After explaining the advances by lasers for classical accelerator techniques, as FELs and other methods for 100 GHz generation of GW pulses, a survey is given of far field and near field laser acceleration. Problems of the beat wave accelerator are discussed and schemes for particle interaction in vacuum without plasma are elaborated. One scheme is the Boreham experiment and another is the acceleration of "standing" wave fields where charged particles are trapped in the intensity minima. Another scheme uses the relativistic acceleration by half waves where the now available petawatt-picosecond laser pulses should produce GeV electron pulses of high luminosity. Increase of these electron energies would need very large lasers in the future.

ENSEIGNEMENT TECHNIQUE TECHNICAL TRAINING Tél. Secrétariat : 44.60

COURS / SEMINAIRES COURSES / SEMINARS

ENGLISH - FRENCH

Registration for first term's language courses :
from October to December 91.

Application forms are available at the Language Courses Secretariat (Bldg 54, R. 001), at the Users Office (Bldg 61, R. 020), at your Divisional Secretariat.

These courses are open to all persons working on the Cern site, and to their spouses.

For all information please contact Mrs. Benz or Mrs. Fontbonne, Tel. 3127 (afternoons only),

Mr. Liptow, Tel. 2957 .

Lecture series for Postgraduate students

1, 3, 8, 9 & 11 October

10.30-12.00 hrs – Auditorium

Quantum field theory

by B. DE WIT / Rijksuniv., Utrecht

We introduce the main concepts in gauge theories and present all the ingredients necessary for the construction of the standard model. If time permits we will discuss some aspects at the quantization of gauge theories (ghosts).

ENSEIGNEMENT GENERAL

Tél. 5811 ou 2844 (le matin)

Jeudi 3 octobre

de 13.00 à 13.30 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

SERVICE D'APPUI LINGUISTIQUE LINGUISTIC SUPPORT SERVICE

Secrétariat (après-midi seulement) : 3127
Secrétariat (afternoons only) : 3127

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ANGLAIS - FRANCAIS

Les inscriptions à ces cours sont ouvertes dès maintenant pour le premier trimestre 91-92 : d'octobre à décembre.

Les formulaires d'inscription sont à votre disposition au secrétariat des Cours de Langues (Bât. 54, R. 001), au Bureau des Utilisateurs (Bât 61, R. 020), à votre secrétariat de division.

Ces cours s'adressent à toute personne travaillant au cern ainsi qu'aux conjoints.

Pour toute information, veuillez contacter Mme Benz ou Mme Fontbonne, Tél. 3127 (après-midi seulement), Mr Liptow, Tél. 2957

ONE STANDARD APPLICATION FORM FOR ALL TRAINING COURSES AND SEMINARS

This is to remain all members of the personnel that from now on there is one standard application form to be used for all training actions where individual enrolment occurs.

There are three broad types of training :

- 1) that organised centrally for CERN by Education Services;
- 2) that organised in Divisions for their own staff (and/or for the staff of other Divisions);
- 3) that which takes place externally, when one or more staff members attends an outside training course.

After discussion in the Joint Training Board (JTB) and with the Divisional Training Officers (DTOs) and with their full support, the new form has been introduced to simplify and standardise the procedure for first obtaining authorisation and then enrolling for training. From now on, when training is under consideration, the very first step will be to complete this form, which is now available in the Divisional Secretariats.

Use of the new form is now essential for all training organised centrally where there is individual enrolment, i.e. Technical Training, Management & Communication Training and Language Training, (but not Academic Training or "Sciences pour tous"). And use of the form is strongly recommended for all other training actions (see 2) and 3) above) in order to ensure that proper authorisation is given and that the training is recorded.

While the main aim of the new form is to simplify and standardise the procedure for training, the aspect of recording all training (especially 2) and 3) above) takes on more and more significance as training develops at CERN. Training is defined in Administrative Circular No. 16, and a narrative account of the training scene at CERN is given in the "Overview of CERN Training", both available on request from Education Services (3674).

If you have any questions on the new form or on any training issue, please contact your DTO (list below) or Education Services.

W. Blair

UN SEUL FORMULAIRE STANDARD POUR TOUTE DEMANDE D'INSCRIPTION À UN COURS OU SÉMINAIRE DE FORMATION

Nous rappelons à tous les membres du personnel que dès maintenant toute demande de formation individuelle se fera par le biais d'un seul formulaire standard.

Pour mémoire, il existe trois grands types de formation:

- 1) celle organisée de manière centralisée pour le CERN par les Services Educatifs;
- 2) celle organisée dans les divisions pour leur propre personnel (et/ou pour le personnel d'autres divisions);
- 3) celle qui a lieu à l'extérieur, lorsqu'un ou plusieurs membres du personnel suivent un cours de formation externe.

La Commission paritaire de formation et de perfectionnement (JTB) et les délégués divisionnaires à la formation (DTO) ont, après discussion, donné leur plein accord pour l'introduction de ce nouveau formulaire qui vise à simplifier et uniformiser la procédure d'autorisation et d'inscription. Si donc vous envisagez une formation, la toute première démarche sera de remplir ce formulaire, disponible dès maintenant dans les secrétariats des divisions.

L'emploi du nouveau formulaire est dorénavant indispensable pour toute inscription individuelle à une formation organisée de manière centralisée c'est-à-dire pour l'enseignement technique, la formation au management et à la communication et pour les cours de langues, (ceci ne concerne pas l'enseignement académique, ni "Sciences pour tous"). D'autre part, l'emploi du formulaire est vivement recommandé pour toutes les autres actions de formation (voir 2) et 3) ci-dessus) pour s'assurer que l'autorisation est donnée et la formation enregistrée.

En effet, si le nouveau formulaire a pour objectif principal de simplifier et d'uniformiser la procédure pour la formation, l'aspect enregistrement de toute formation (notamment celles 2) et 3) ci-dessus) prend également de plus en plus d'importance au fur et à mesure que la formation se développe au CERN. La formation est définie dans la circulaire administrative N° 16 et vous trouverez une description de la situation au CERN en matière de formation dans le document "Vue d'ensemble de la formation au CERN"; vous pouvez obtenir ces deux documents aux Services éducatifs (3674).

Pour toute information complémentaire, n'hésitez pas à contacter votre DTO (liste ci-dessous) ou les Services Educatifs.

W. Blair

**The current list of DTO
is as follows :
Les DTO actuels
sont les suivants :**

AG/DG	J. D. Mandica	PE	S.R. Rayson
AS	D. Ball	PPE	F. Wittgenstein
AT	H. Lengeler	PS	D. Dekkers
CN	C. Verkerk	SL	B. Sagnell
ECP	J. M. Maugain	ST	A. Lecomte
FI	P. Geeraert	TH	G. Veneziano
MT	P. Faugeras	TIS	M. Streit-Bianchi

THE OPEN UNIVERSITY

General information about the Open University and 1992 was given in the Weekly Bulletin in July (issues

28/91 and 29/91). Those interested in following Open University courses are asked to note the following.

Unfortunately it will not be possible to hold an information meeting at CERN animated by Open University staff from the UK in September since no one is free to come this month. However one of the local contacts (Ms. M. Rubin) will be available at CERN (Bldg 54, R-023) on **Wednesday September 25 from 9.00 to 12.00 and 14.00 to 17.00** to advise anyone interested individually, and to help with registration. Those with specific questions are welcome to contact Ms. Rubin in advance (see below), but she will be available on Wednesday 25 on a first come first served basis to discuss with anyone interested in the Open University programmes.

It is important to note that the deadlines for applying to study with the O.U. to start in autumn 1992 are very close. Applications to start the B.A. degree in autumn 1992 must be received at Milton Keynes by

September 30, 1991, and the deadline for individual courses (i.e. modules, not the complete degree) starting autumn 1992 is **October 7, 1991**. **Late applications will be deferred by one year, i.e. to start in autumn 1993!**

Further information is available from :

1. the local Geneva contacts :

Ms. A. Williams (Geneva 771 38 23) for the Open Business School

Ms. M. Rubin (France 50 41 04 95) for all other fields.

2. The Eurodesk,

The Open University,

12, Hills Road,

Cambridge CB2 1PF

(telephone 223 64721, fax 223 355207).

3. In Education Services (3364) we have available for consultation some general brochures, and also documentation on technological courses. We also now have a supply of application forms.

W. Blair

INFORMATIONS GENERALES GENERAL INFORMATION

SERIES EDITOR FOR CERN REPORTS

The Director General has appointed Torleif Ericson TH as Series Editor for the CERN Reports, formerly called the CERN Yellow Reports. He will be assisted by an Editorial Board, representing the scientific and technical divisions from which most reports originate and the AS production unit. The purpose of this new organization is to define clearly the responsibility for the quality of the content as well as the presentation of the series.

Since the beginning of CERN this series has been an important and popular way of disseminating scientific and technical reports closely linked to CERN and CERN activities but unsuitable for the conventional journal

literature. Typical examples are proceedings of the CERN schools and workshops, specialized technical reports and lecture series. These reports are of great importance for the image of CERN and their standard must reflect this. With the new organisation, there will be some changes in procedures. Proposals for CERN Reports will now be reviewed for suitability by the Editorial Board. Both before and after acceptance there will be an ongoing dialogue with authors concerning the presentation, which will be aimed at achieving higher standards than before. Most material proposed for CERN Reports will be published following procedures similar to those used now.

The present composition of the Editorial Board is as follows:

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