

THURSDAY 21 FEBRUARY

CERN ENERGY SEMINAR

at 16.30 hrs - Auditorium (*)

"The Deep Earth Gas : will it resolve the energy crisis ?"

by T. Gold / Cornell Univ.

Abstract : The high concentration of carbon on the surface of the Earth is the result of carbon gases having emerged from deep down, in the course of geologic time. This outgassing appears to be a gradual process, and carbon emerges in both oxidized and unoxidized form, as CO₂ and as CH₄. Hydrocarbons, common in some meteorites, would be a likely constituent of the early solar system, and their inclusion in the forming Earth would be a possible source of methane outgassing. Much detailed evidence shows that outgassing is related to major fault-lines, assists in the generation of earthquakes, and that the emerging gases are frequently rich in methane. The known hydrocarbon deposits, partly of biological origin, may have been greatly augmented by absorption and modification of such methane. A theory of the mechanics of outgassing would predict that very large quantities of the deep source gas are frequently arrested in their ascent, at depths that can readily be reached by drilling. The quantities involved are orders of magnitude larger than those of conventional oil and gas exploitation.

(*) 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 discussions. Tea and coffee will be provided.

MONDAY 25 FEBRUARY

EP SEMINAR

at 17.00 hrs - Auditorium

"Observation of the T family at CESR using the CUSB detector"

by P. Franzini / Columbia Univ.

TUESDAY 26 FEBRUARY

CERN COLLOQUIUM

at 16.30 hrs - Auditorium

"Spiral Structure of Galaxies"

by K.O. Thielheim / Univ. of Kiel

THURSDAY 28 FEBRUARY

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Hadron-Nucleus Interactions at High Energy"

by M.A. Faessler / Max-Planck Inst. Heidelberg and CERN

FRIDAY 29 FEBRUARY

CERN COMPUTER SEMINAR

at 11.00 hrs - Council Chamber

"Experience in Operating an International Network"

by K. Bearpark / IBM, Hursley, U.K.

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POUR INFORMATION / FOR INFORMATION

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VENDREDI 22 FÉVRIER

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

Laboratoire d'Annecy-le-Vieux de Physique des Particules, chemin de Bellevue, Annecy-le-Vieux (Haute-Savoie, France)

"Les corrections radiatives, une clé pour les particules à découvrir"

par M. Veltman / Utrecht-Lapp

Renseignements complémentaires auprès de H. Pessard / EP, tél. 6526 ou Lab. d'Annecy-le-Vieux, tél. (023) 23.32.45, int. 327.

TRAINING AND EDUCATION ENSEIGNEMENT

FEBRUARY 20 AND 22

ACADEMIC TRAINING

(Tel. 2844)

10.00 hrs / 12.00 hrs - Auditorium

"Finite Elements in the Solution of Integral Equations, Applied to 3-Dimensional Magnetic Field Problems"

by C.W. Trowbridge / Rutherford Lab.

Abstract : A general introduction to numerical techniques in electromagnetics followed by a detailed discussion of the relative merits of differential and integral methods. An attempt will be made to classify problems appropriate to integral operators with examples from magnet design drawn from high energy physics and electrical machines. Various forms of integral equations will be presented using magnetisation vectors, vector potential and scalar potentials. The derivation of computer algorithms utilizing the above functions will be discussed with particular emphasis on 3D magnetostatic problems. Basic integral formulations for eddy current problems will also be discussed illustrated with results from 2D codes. Work in progress and future research work will be briefly surveyed. Results of codes developed at Rutherford Laboratory and elsewhere will be used to illustrate the methods - including the use of interactive colour graphics and "movie films".

JEUDI 21 FÉVRIER

ENSEIGNEMENT GENERAL

(Tél. 2844)

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

MARDI 26 ET JEUDI 28 FÉVRIER

MARDI 4 ET JEUDI 6 MARS

MARDI 11 ET JEUDI 13 MARS

ACADEMIC TRAINING

à 11h00 - Amphithéâtre

"La physique des particules pour les ingénieurs"

par J.P. Lagnaux / IISN, Bruxelles

(Pour le résumé, voir affiches et bulletin de la semaine prochaine.)

INSERTIONS DANS LE BULLETIN HEBDOMADAIRE - RAPPEL

Le Bulletin hebdomadaire est l'un des principaux moyens de communication à l'intérieur du CERN. Afin d'aider les utilisateurs du Bulletin, une liste des modalités d'insertion a été établie :

I. DELAIS

1) Pour publication dans la partie "Bulletin CERN" (1^{ère} partie), veuillez vous adresser à la Section rédactionnelle (Bât. 61 - R.022 - Tél. int. 4106-3586), pour tout texte officiel émanant, soit de la Direction, soit des Secrétariats de Division ou de Groupe - comme les communications de la Direction, avis de l'Administration, activités scientifiques, ou l'Enseignement.

*DATE LIMITE de réception des documents :
mardi 12.00 heures.*

Les articles exceptionnellement longs sont cependant requis avant ce dernier délai. Les enveloppes internes doivent porter la mention : "Bulletin CERN (Mme Blazianu - PU/ED)".

2) Pour publication dans la 2^e partie, "Association du Personnel", veuillez vous adresser au Secrétariat de l'Association (Baraque Wilson, No 511). Les différentes rubriques contenues dans cette partie sont publiées sous l'autorité directe de l'Association du Personnel.

*DATE LIMITE de réception des documents :
mardi 12 heures.*

INFORMATIONS

GENERALES

GENERAL INFORMATION

FERMETURE DE LA STATION DE CARBURANTS - SITE MEYRIN (Bât.57)

La station de distribution de carburants (Diesel + Super) sera fermée du lundi 18 février au vendredi 22 février 1980 pour raison de travaux.

Vous voudrez bien utiliser durant cette période la station de carburants de Prévessin (Hall 867).

Division SB

CLOSURE OF THE GAS STATION SITE MEYRIN - (Building 57)

The gas station (Diesel + Super) will be closed from Monday 18 February to Friday 22 February 1980 (change of the Distribution Station).

Would you please fill up during this period at the gas station on the Site Prévessin (Hall 867).

SB Division

INSERTIONS IN THE WEEKLY BULLETIN - REMINDER

The Weekly Bulletin is one of the major media of communication within CERN. To help those who use the Bulletin, the deadlines for contributions and the standard procedure are as follows:

I. DEADLINES

1) Items for publication in the "CERN Bulletin" section (1st part) should be sent to the Editorial Section (Building 61 - Room 022 - Tel. 4106-3586). This applies to all official texts from the Management, or from Division or Group Secretariats, such as official announcements by the Management, administrative notices, and information and reports on scientific or training/education matters.

*DEADLINE for reception of contributions:
Tuesday 12 noon*

but earlier in the case of articles of exceptional length. Internal circulation envelopes should be marked: "CERN Bulletin (Mrs Blazianu - PU/ED)".

2) Items for publication in the Staff Association section (2nd part) should be sent to the Association Secretariat (Wilson Hut, Building 511). Items appearing under the various headings of this part are published under the direct authority of the Staff Association.

*DEADLINE for reception of contributions:
Tuesday 12 noon.*