

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

Un nouveau Manuel de Sécurité pour les gaz inflammables a été élaboré par le Comité consultatif pour l'hydrogène et les gaz explosifs et approuvé par le Comité pour la politique de sécurité (SAPOCO). Il entrera en vigueur le 1^{er} décembre 1981 et remplacera les codes précédents B2, B12, D3.

Des informations complémentaires sont diffusées avec le présent bulletin. Des exemplaires de ce Manuel peuvent être obtenus auprès de la Division HS (J.C. Guyomar, tél. 3439 - 6601).

H. Schopper
Directeur général

A new Flammable Gas Safety Manual has been prepared by the Advisory Committee for Hydrogen and Explosive Gases and has been approved by the Safety Policy Committee (SAPOCO). It will come into force on 1st December 1981 and will replace the former codes B2, B12, D3.

Further information is being distributed with the Bulletin. Copies of the Manual are available from HS Division (J.C. Guyomar, tel. 3439 - 6601).

H. Schopper
Director General

SEMINARS SEMINAIRES

Mardi 10 Novembre

PRESENTATION TECHNIQUE

14h00/16h30 - Salle 2-007, Bâtiment 73

Thomas and Betts (D) propose en démonstration : Ansley, système câble en nappe/connecteurs auto-dénudant - TY-RAP, technique de câblage - Shield-Kon, connecteurs pour câbles coaxiaux - raccords étanches Thomas and Betts - Cable Scan, identificateurs et contrôleurs de câblage.

Langues : Allemand, anglais, français.

Renseignements : M. Diraison/FI/4585.

time and directional sound distribution. The main new insight gained by this study is that - besides full reverberation and good spectro-balance - directional balance (the feeling of being enveloped by sound) is the most important requirement for good concert hall acoustics. To further this directional balance, new ceiling structures are required that are, in effect, reflection-phase gratings based on number theoretic concepts (quadratic residues, primitive roots and irreducible polynomials over finite number fields).

* Please note that, exceptionally, this Colloquium will take place at 17.00 hrs and that tea and coffee will be served at 16.30 hrs.

Tuesday 10 November

CERN COLLOQUIUM

at 17.00 hrs - Auditorium *

'Recent progress in concert hall acoustics - applications of number theory'

by M. Schröder / Gottingen Univ.

Listeners' preferences for the acoustics of major European concert halls were established using modern psychological scaling methods. The preference space resulting from this study is then correlated with the salient physical attributes of the hall, such as reverberation

Mercredi 11 Novembre

PRESENTATION TECHNIQUE

9h30/12h00 - Salle 2-027, Bât.73

Elbatex AG (CH) présente les produits développés et fabriqués par Gespac SA (Genève) : famille de cartes microprocesseurs au format Europe et compatibles au standard G-64, famille d'ordinateurs de développement et d'application réalisés sur la base de ces cartes.

Langue : Français.

Renseignements : M. Diraison/FI/4585.

Wednesday 11 November

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

'Strange attractions and turbulence'

by D. Ruelle / I.H.E.S, Bures-sur-Yvette

There is now considerable experimental evidence for deterministic chaos in hydrodynamics and in other dissipative systems (chemical, etc.). The evidence is that this chaotic motion corresponds to strange attractors involving only a finite number of degrees of freedom. Strange attractors are still poorly understood mathematically, but they are likely to pop up in new areas of physics.

CERN COMPUTER SEMINAR

at 16.00 hrs - Council Chamber *

by M. Palandri / Composition Software Services

In recent years, developments in computer output devices have led to a steady increase in the sophistication and flexibility of printing equipment available to users of general-purpose computers. New generations of laser printers are being marketed, offering computer typesetting facilities that were once available only to users of highly dedicated publishing systems. With this development has come the need for typesetting software which can be run on a general-purpose computer in a way which permits ordinary users to exploit the full capabilities of these devices. This seminar will describe the development of a suite of computer programs designed for this purpose.

Thursday 12 November

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

'New detectors for new physics'

by G. Charpak

There is a close relationship between the new questions raised by physics and the evolution of particle detectors. This will be illustrated with two examples :

- a) The electrostatic imaging of trajectories for the study of short lived particles;*
- b) A new detector useful for the measurement of the neutrino mass.*

* 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.

JOURNEES D'ETUDES DE RADIOPROTECTION

(Salle du Conseil, Bâtiment 500)

organisées par l'A.T.S.R.

(A.T.S.R. : Association pour les Techniques et les Sciences de Radioprotection)

Sujets des communications

Jeudi 12 Novembre

09.00 Hrs :

Introduction : M. Mallet (A.T.S.R.), A. Herz (CERN)

09.15 Hrs :

G.R. Stevenson (CERN) : Problèmes particuliers autour des accélérateurs à haute énergie.

10.30 Hrs :

J.W.N. Tuyn (CERN) : Surveillance de radiations sur le site du CERN.

11.30 Hrs :

M. Höfert (CERN) : Développement de la dosimétrie personnelle dans les champs de radiations mixtes (nouveaux détecteurs).

14.00 Hrs :

H. Joffre (CEA-IPSN) : Observations sur les fondements biologiques des limites de dose.

15.00 Hrs :

M. Bianchi (CERN) : Effets biologiques des radiations de haute énergie.

16.30 Hrs :

H. Joffre (CEA-IPSN) : Dispositif pratique pour la mesure des débits de dose absorbée en fonction de la profondeur dans les tissus mous.

Vendredi 13 Novembre

09.00 Hrs :

J. Drouet et Col. (CEA-CEN Saclay-SPR) : La radioprotection individuelle auprès des accélérateurs de Saclay.

10.30 Hrs :

H. Schönbacher (CERN) : Résistance aux rayonnements ionisants des matériaux installés autour des accélérateurs.

11.30 Hrs :

K. Goebel (CERN) : Impact radiologique du futur programme CERN (LEP).

14.00 Hrs :

R. Coulon (CEA-IPSN) : Les implications pratiques des nouvelles recommandations de la CIPR.

14.30 Hrs :

Table ronde CIPR 26.

Monday 16 November

HS SEMINAR

at 14.00 hrs - PS Auditorium

(Building 6)

'New dosimetry based on Hiroshima and Nagasaki A-bomb survivor data'

by William E. Loewe / Lawrence Livermore Lab.

EP SEMINAR

at 17.00 hrs - Auditorium

'Search for narrow proton-antiproton states produced for baryon exchange in negative pion-proton reactions at 16 GeV/c and in proton-antiproton reactions at 5 GeV/c'

by M. Winik / BNL

Tuesday 17 November

PS AND SC COMMITTEE

I. OPEN SESSION

at 09.00 hrs - Council Chamber

1. Information from the Chairman.
2. Status Reports :
– LEAR (P. Lefevre).
3. New proposal :
Measurements of channelling radiation and its polarization, x-ray excitation, together with deviations from Landau distributions (Aarhus-CERN-Strasbourg; PSCC/81-79/P51; 81-80/S51; E. Uggerhoj).

II. CLOSED SESSION

at 14.30 hrs - Sixth Floor Conference Room

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

‘Photoproduction of charmed particles using the SLAC hybrid facility exposed to a backward scattered laser beam’

by G. Kalmus / Rutherford Appleton Lab.

Wednesday 18 November

ISR COMMITTEE

I. OPEN SESSION

at 09.30 hrs - Council Chamber

1. Information from the Director-General.
2. Study of light ion interactions with the SFM detector; J. Symons.
3. Total cross-section and elastic scattering with alpha-alpha running and experiment R 211; D. Favart.
4. Alpha-alpha collisions in experiment R 807; S. Frankel.

II. CLOSED SESSION

at 11.30 hrs - A + C Conference Room.

Thursday 19 November

CERN ENERGY SEMINAR (General Level)

at 16.30 hrs - Auditorium

‘The nuclear non-proliferation treaty : What is it? Can we understand it? Do we need it? What happens without it?’

by R. Wilson / Harvard Univ, and CERN

POUR INFORMATION

Vendredi 13 Novembre

PRESENTATION TECHNIQUE

08h30/11h30 - Meyrin, Parking Piscine du Centre Sportif, Avenue Louis Rendu

Endress et Hauser AG (D) propose en exposition-démonstration de l'instrumentation de mesure et contrôle : détecteurs de niveau, contrôleurs continus de niveau (sondes capacitives, piézorésistives, à ultrasons), mesureur de niveau par palpement électromécanique, contrôle de niveau et de débit de produits en vrac par système à micro-ondes, mesureur de traces d'humidité dans le gaz et les liquides, transmetteurs et régulateurs pour mesure de pH, potentiel redox et O₂ dissous, instrumentation pour traitement des eaux.

Langues : Allemand, français.

Renseignements : M. Diraison/FI/4585.

TRAINING AND *EDUCATION* *ENSEIGNEMENT*

ACADEMIC TRAINING (Tel.2844)

November 9, 10, 11

at 11.00 hrs - Auditorium

‘Non-asymptotic effects in QCD’

by R. Petronzio / CERN

(For abstract, see last week's Bulletin and notices.)

Friday 13 November

10.30 hrs/12.30 hrs - Auditorium
(Building 31, 3rd floor)

‘Digital signal processing’

by M. Kunt / EPF, Lausanne

Lecture 4

November 20 : 10.30 hrs/12.30 hrs
in DD Auditorium : Lecture 5, by M. Kunt.

November 16, 17, 18 :

at 11.00 hrs - Auditorium

‘Confinement for non-experts’

by W. Nahm / CERN

QCD and confinement will be discussed on a level adapted to experimentalists. The main weight will be given to the structure of the vacuum and the concept of gauge theories.