

In connection with the forthcoming elections in France and Switzerland, and pending possible changes in the Staff Rules and Regulations, attention is drawn to the fact that candidature for an election to any local office (other than that of town councillor) or to cantonal, regional or national office, and taking up such office if elected, are incompatible with the functions of a member of the personnel. This includes the office of 'Conseiller général'.

Members of the personnel are also reminded that their status as international civil servants imposes an obligation to maintain a certain reserve. This means in particular that they must abstain from any act which could be prejudicial to the Organization, and take care not to link the name of CERN with the expression of a personal opinion.

It also goes without saying that the equipment and services of the Organization may under no circumstances be used for electoral purposes.

For further information, please consult the Information Sheet 'Duties, Obligations and Privileges' dated January, 1978.

Personnel Division / Tel. 2855

(French version published in Weekly Bulletin No. 11/79)

SEMINARS SEMINAIRES

MONDAY 26 MARCH

ESQ ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room
(Bldg. 31 - 3rd floor)

"Activity in the Nuclei of Bright Galaxies"

by T. Heckman / Leiden

Abstract : Optical spectroscopy and radio continuum interferometric observations of a statistically complete sample of the nuclei of bright galaxies reveal that low-level activity is common^ especially in galaxies of early Bubble type. Optical emission line regions are statistically related to compact radio sources. The emission line regions differ both qualitatively and quantitatively from those in Seyfert galaxies^ but transition cases occur. Models involving gas heated by 100 km s^{-1} shock waves are the most successful in reproducing the observed spectra. The role of such processes in other classes of active object is considered.

TUESDAY 27 AND 1CDNESDAY 28 IWCH

SPS EXPERIMENTS COMMITTEE

Tuesday 27_March - Open Session

at 9.00 hrs - Auditorium

1. Introductory Remarks, by L. Van Hove.
2. Status Report on NA3 (Hadronic Production of High p^A Leptons and Hadrons; D. Decamp).
3. Status Report on WA 18 (Study of Semi-Leptonic NC Processes and of γ -Polarization in V and v Interactions; J.M. Meyer),
4. WA1 Improvement Programme (CERN-Dortmund-Heidelberg-Saclay Collaboration; J. Steinberger; SPSC/79-34/M 160).

Wednesday_28 March - Closed Session

at 9.00 hrs - Conference Room
(6th Floor - ADM Bldg.)

TUESDAY 27 WRCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)

"Recent Results from the Crystal Ball Detector at SPEAR"

by E. Bloom / SLAC

Abstract : Approximately 20 OK and 300K J/ty have been obtained by the Crystal Ball during two weeks of data collection in December 1978. Results of a preliminary analysis of this data will be presented; also a review of the present state of the charmonium model predictions for ψ -oniwn will be made.

(*) 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.

TECHNICAL PRESENTATION

9.30 hrs - 16.30 hrs

Room 1-025 - Bldg.1 - C2 CERN Map

SILENA (I) will exhibit : 1) Pulse Height Multichannel Analyzer Mod. 7922 or 7923 built into a single two-width NIM standard module. Number of channels : 1024 or 2048, 10^4 counts per channel; - selection of any number of ROI's, spectra integration with or without the background subtraction capability, built-in timer and character generator for easy data readout on the CRT. 2) Charge, Amplitude and Time Converter Mod. 7412 - 2048 channels, 100 MHz clock rate, single-width NIM module. 3) Analog-To-Digital Converter Mod. 7411 - 8192 channels, 100 MHz clock rate, single-width NIM module. 4) High-Speed Analog-To-Digital Converter Mod. 7420 - 8192 channels, 400 MHz clock rate, 2-width NIM module. 5) Extremely Compact, Portable Analyzer Mod. System BS 27/N-1024 channels memory, 2048 channels ADC. Built-in display, parallel printer or magnetic cassette and built-in high voltage power supply.

Language : English

Information : M. Diraison / FI / 4585

WEDNESDAY 28 MARCH

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

"The Electric and Magnetic Charges as Extra Components of Four-Momentum"

by D. Olive / Imperial College, London

Abstract : The Georgi-Glashow model leading to the 't Hooft-Polyakov monopole in the limit of vanishing Biggs self-interaction has a hidden symmetry whereby the Biggs field is the fifth component of the gauge potential, and the electric charge the fifth component of the four-momentum. Super-symmetrization of the model automatically introduces a sixth dimension whose conjugate momentum is the magnetic charge.

DD SEMINAR

at 16.00 hrs - DD Auditorium
(Bldg. 31 - 3rd floor)

"Abstract Software Specifications"

by I. Willers / CERN

Abstract : Ian Willers recently attended a course on 'Abstract Software Specifications' in Copenhagen, and will describe the state of the art as it was presented during the course. The syntax of programming languages is generally well-defined whereas the semantics are often vague. Several approaches are being tried to rectify this situation; one was a highly abstract mathematical notation, another, the 'denotational' method, and another the theory of algebras. While much of the effort involved is devoted to developing an academically respectable theory, there are already some practical applications. Formal proving of programs gives the direction but not necessarily the final aim for much of this research.

CERN ENERGY SEMINAR - TECHNICAL LEVEL

at 16.30 hrs - Theory Conference Room

"Hydrogen Solubilization Phenomena into Metallic Wall Materials in Fusion Systems and its Expected Role in the Plasma Wall Interaction"

by F. Waelbroeck / Inst. f. Plasmaphysik, Jülich

Abstract : In the past years, attention in the domain of plasma wall interaction in fusion systems was focussed on the momentum and energy transfer which occur when high energy particles escaping from the plasma strike the wall. Impurities can be released and part of the hydrogen is scattered back. Theoretical, numerical and experimental results acquired in our laboratory indicate that low energy hydrogen ions and neutral particles, because their flux densities to the wall are large, can be at least as important in releasing impurities, and more important for the general plasma behaviour (e.g. fuel cycle and isotope exchange) than the less numerous high energy hydrogen particles. Expected effects and ways to control them will be discussed.

THURSDAY 29 MARCH

ESQ ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room
(Bldg. 31 - 3rd floor)

"n-Body Models of Galaxies"

by J. Sellwood / ESO Geneva

Abstract : Bar formation in computer models of disc galaxies continues to be difficult to prevent. Even though a bulge population of stars takes angular momentum from the disc its stabilizing effect is scarcely any greater than that of a comparable rigid mass. The bars which form in some models agree quite well with theory but direct observations are not available for comparison.

CERN ENERGY SEMINAR - GENERAL LEVEL

at 16.30 hrs - Auditorium (*)

"Survey of Recent Results in Controlled Fusion Research using Toroidal Magnetic Confinement"

by F. Waelbroeck / Inst. f. Plasmaphysik, Jülich

Abstract : The main approaches to toroidal magnetic confinement will be recalled and the most recent results achieved will be summarized. Among these, the Tokamak system has presently taken a central position. It will consequently be examined in more details. The present state of the art, the main problem areas (e.g. need for additional heating, impurity and fuel control, specific power density) and the extrapolability will be discussed with respect to the future prospects of this line.

(*) 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.

VENDEDI 30 MARS

PRESENTATION TECHNIQUE

10h30 - 16h30

Salle 2-027- Bât.73 - El du plan CERN

GOULD (USA/UK) expose : oscilloscopes, oscilloscopes à mémoire numérique, compteurs fréquence-mètres, analyseur synthétiseur logique, wobulateur, enregistreurs graphiques, alimentations stabilisées à découpage, multimètres numériques. 52HIFHJIEË 0S_255 - Oscilloscope 15 MHz - champs utilisations : enseignements, service TV, laboratoire, production SW_100 - wobulateur 1-1600 MHz en un seul balayage - utilisation et entretien facile, léger et facile à transporter; MÇ et MÇD - modules DC/DC de 6 et 12 watts - entrée: "-5V - sorties: 12V /15V/ +/- -12V/ +/- -15V - avantageux, fiables.

Langues : allemand, anglais, français.

Renseignements : M. Diraison / FI / 4585

TUESDAY 3 APRIL

CERN COLLOQUIUM

at 16.00 hrs - Auditorium

"Resonances in Hadronic Atoms"

by M. Leon / Los Alamos Scientific Lab.,
Univ. of California

THURSDAY 5 APRIL

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium

"Recent Results of the Neutrino Hydrogen
Experiment with BEBC" (Aachen-Bonn-CERN-
Munich/MPI-Oxford Collaboration)

by W. Wittek / Max-Planck-Institute

TRAINING AND

EDUCATION ENSEIGNEMENT

(Secretariat: Tel 2844)

JEUDI 29 MARS

ENSEIGNEMENT GENERAL

13h00 - 13h30 / Amphithéâtre

"Science pour Tous"

par R. Carreras

INFORMATIONS

GENERALES

GENERAL INFORMATION

CONCERTS DU CERN

Le prochain concert de la saison 78/79 aura
lieu dans l'amphithéâtre le

à 20h00 précises, et nous permettra d'entendre
l'excellent ensemble JOÇULATORES^UPSALIENSES
de Uppsala, Suède. Il présentera sur des
copies d'instruments anciens un programme très
varié qui s'étendra de "La Musique du Moyen
Age à la Renaissance".

Entrée : Frs 8.- Billets le soir du concert
dès 19h30 ou réservation par téléphone au
4813 (Adam / SPS).

ON RECHERCHE

~ Un multimètre digital FLUKE type 8000-A
No. série 66654, Inventaire No. 40 DA 119,
reference instrument : DD-482. La personne
qui a emprunté cet instrument est priée de
contacter d'urgence Y. BENARD/DD - Tél. 2364
ou par courrier interne. Merci.

- Suite à l'expérience H5 Test (Navarria-
Pretzel), zone Ouest du SPS, le matériel
suivant a disparu :

- 1 châssis MPS 1027, comprenant 5 plug-in
(Dataplex Beam Transport Power Supplies),
- 1 châssis MPS 1029 comprenant une alimenta-
tion 30V/5A
- 1 châssis NIM 8905 comprenant un plug-in
Selection Unit + 1 plug-in Control Unit
avec D.V. Newport.

Les personnes pouvant donner des rensei-
gnements concernant ce matériel sont priées
de contacter : M. COURTOIS - Tél. 3381/4575.

FACULTY POSITION AT STONY BROOK

The State University of New York at Stony
Brook has a vacancy for a tenure track faculty
position. Projects at Stony Brook include
experiments at CESR, Fermilab and Brookhaven
(including ISABELLE). Further details from
Fellows and Associates Service - Tel. 4473.

COURRIER CERN

EDITION D'AVRIL - No.2/79

L'article principal rend compte de
l'état des études concernant le nouvel
accélérateur de protons en vue de sa
construction à Pékin, tandis qu'un
deuxième article traite de la recher-
che du boson intermédiaire, porteur
de l'interaction faible.
Les "Nouvelles du CERN" portent sur
les réalisations faites pour l'inter-
section 8 aux ISR, et quelques idées
pour les aimants du LEPP.

Exemplaires disponibles aux :

- Secrétariats de Division,
- Groupe Publications,
- Bibliothèques centrale et du SPS,

dès le VENDREDI 30 MARS,

