

CERN NUCLEAR PHYSICS SEMINAR

at 11.00 hrs - Theory Conference Room
"Collective motion in nuclei : interaction and symmetries" - by S.T. Belyaev / Institute of Nuclear Physics, Novosibirsk and Novosibirsk University

Abstract : The status of our understanding of collective modes in nuclei is reviewed. In addition to many well-known types of states one may envisage the existence of new exotic modes which may be subjects for experimental investigations.

THURSDAY 7 OCTOBER

SPECIAL DD SEMINAR

at 15.00 hrs- DD Amphitheatre (Bldg.31-3rd fl.)

"New Developments in Very High Resolution Vidicons" - by J.K. Fisher / General Electric Co., Syracuse, N.Y., USA

Mr. Fisher will give this talk at the "Third European Electro Optics Conference" Geneva, 5-8 October 1976, and has kindly agreed to repeat it at CERN.

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Experiments on Parity Violating Effects in Atoms" - by V. Telegdi / ETH-Zurich

MONDAY 11 OCTOBER

EP SEMINAR

at 11.00 hrs - Large Conference Room (Lab.13 - 2.005)

"Radiative Decays of Ψ Particles"
by B. Sadoulet / LBL-CERN (as seen by the SLAC-LBL collaboration at SPEAR)

CERN NUCLEAR PHYSICS SEMINAR

at 16.00 hrs - Theory Conference Room

"Giant isoscalar resonances in nuclei : A sum rule approach" - by J. Marterell / SIN

Abstract : The main features of giant resonances in heavy nuclei are studied using three sum rules. The information on the dynamical properties of the nucleus contained in these is discussed. The approach allows a systematic comparison of various collective theories (RPA, generator coordinates) and gives a simple derivation of the Suzuki-Mottelson model.

TUESDAY 12 OCTOBER

WORKSHOP ON FUTURE ISR PHYSICS

at 16.30 hrs - Auditorium

"The Big Accelerators : Physics Issues" - by J.D. Bjorken / SLAC

WEDNESDAY 13 OCTOBER

ESO ASTROPHYSICS SEMINAR

at 11.30 hrs - DD Conference Room (Bldg.31 - 3rd fl.)

"Properties of SN Remnants in our Galaxy and in the Magellanic Clouds" - by Dr. S. D'Odorico / Osservatorio Astrofisico Asiago

Abstract : The results of an optical survey will be presented. The properties of SN Remnants in our Galaxy and in the Large Magellanic Cloud will be compared.

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

ENSEIGNEMENT TECHNIQUE

Les élèves inscrits aux cours de l'Enseignement Technique recevront une convocation personnelle.

REPRISE DES COURS LE LUNDI 4 OCTOBRE 1976.

Secrétariat de l'Enseignement Technique - Tél. 4460

JEUDI 7 OCTOBER

ENSEIGNEMENT GENERAL

13h00 - 13h30 - Amphithéâtre

"Science pour Tous" - par R. Carreras
Programme (pour détails, voir affiches):

1. En bref
 - a. Vu, lu et entendu.
 - b. Ile de stabilité, halos géants dans le mica et illusions.
 - c. Découverte dans les plantes d'une hormone anti-juvénile : vers un insecticide de la 4ème génération ?
2. Question
En quelle couleur faut-il peindre un objet pour qu'il paraisse : a) plus lourd, b) plus léger, c) plus chaud, d) plus froid ?
3. Thème principal
"Les cellules de Purkinje".

WEDNESDAY 13 OCTOBER

GENERAL SCIENCE MONTHLY CROSS-SECTION

at 16.30 hrs - Auditorium - 1st lecture by R. Carreras

The main purpose of these lectures is to provide the scientific and the technical staff with regular information on what is going on in science outside high energy physics and related fields.

The lectures will be mainly based on a number of papers, articles and news items published the previous months. They will be held in English.

'BRITAIN AT CERN'

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CERN-MEYRIN, OCTOBER 11-15, 1976 - ADMINISTRATION BUILDING, 1st FLOOR

EXHIBITION OF BRITISH ELECTRICAL, ELECTRONIC AND PRECISION ENGINEERING EQUIPMENT

OPENING HOURS : 10.00 a.m. - 5.30 p.m. (closing Friday at 12.00 a.m.)

Eleven British electrical and electronic manufacturers will be exhibiting a range of instrumentation, components and equipment at the 'Britain at CERN Exhibition'. The exhibition is being organised by the British Electrical and Allied Manufacturers' Association (BEAMA) on behalf of the British Measurement, Control and Automation Conference (MCAC) as a joint venture with the British Overseas Trade Board (BOTB).

The following is a short description of the equipment which will be on show or demonstrated by the companies' technical staff.

AEI Semiconductors Ltd. (Stand 4)
Carlhome Road
Lincoln / Lincolnshire
LNI ISG England
Exhibition contact : D.J.D. Westgarth
Tel : 0522 29992; Telex : 56163

This company's coverage of high power semiconductors includes fast switching thyristors and diodes for high frequency low loss operation and large area converter devices based on the most advanced material processing and doping techniques. Developments include 50 mm enhanced gate thyristors offering 25 μ s turn-off at 1200 volts and with current ratings double those of the current 38 mm versions with no deterioration in dynamic performance.

Benney Electronics Ltd (Stand 6)
P.O.Box 26
Eastleigh / Hants
England
Exhibition contact : K.F. Benney
Tel : 042 15 66764; Telex : 47118

This company is mainly engaged in the manufacture of custom designed prototype and small batch instrumentation for Government departments, universities and research establishments. Products on show will include NIM (Nuclear Instrument Modules) and the well established 'Beni Bin', the company's interpretation of the NIM crate as well as a small range of NIM instruments, 500 Amp power supplies and new CAMAC modules.

EMI Electronics Ltd. (Stand 1)
EMI Electron Tube Division
243 Blyth Road
Hayes / Middlesex
UB3 1HJ England
Exhibition contact : A.R. Fletcher
Tel : 01 573 3888; Telex : 935261

EMI's range of photomultipliers covers a spectral range of 165 to 1200 nm and sizes from 19 to 190 mm in diameter. The series of fast tubes is particularly suitable for high energy physics and nuclear applications in general. The company has a new series of 50 mm photon counting tubes, and also shows a range of power supplies, cooled and uncooled housings and defocusing magnets, an image intensifier system capable of giving light gain of over 10^6 and camera tubes for general surveillance and avalanche photodiodes for optical fibre communication and distance measurement systems.

GKN Sankey Ltd. (Stand 7)
Bankfield Works
Bilston / West Midland
WV14 0TJ England
Exhibition contact : W.J. Evans
Tel : 0902 43111; Telex : 33286

GKN Sankey is Europe's leading manufacturer of electrical laminations. Utilising a variety of production methods and an extensive range of tools, the company is well equipped to meet most customer requirements without the cost of new tooling. However, with its own tool making facilities, both for steel and tungsten carbide dies, laminations of any design can be produced. A selection of one piece, segmental and transformer laminations will be on display.

Grenson Electronics Ltd. (Stand 11)
High March Road
Long March Industrial Estate
Daventry / Northants
England
Exhibition contact : F. Thompson
Tel : 032 72 5521; Telex : 311245

Grenson have been supplying NIM and CAMAC Power Supplies and Powered Crates to various divisions within CERN for five years. At the moment they are in the process of manufacturing a large number of special High Power Units for use with proportional chamber readout units.

J & P Engineering (Reading) Ltd. (Stand 2)
Portman House
Cardiff Road
Reading
RG1 8JF England
Exhibition contact : A.D. Bernard
Tel : 0734 598544; Telex : 848242

On display depicting the company's skilled engineering service to nuclear research will be the full range of modern materials from aluminium to zirconium, including all modern stainless steels, graphite P T F E, and epoxy resins. This company regularly makes helium cryostats, target chambers in non magnetic stainless steel, flight tubes, spark chambers and proportional chambers, magnet supports, cast epoxy resin insulators, light guides, field coils, collimators and spark gaps. Nucleonic products are represented by a sodium iodide counting system and multichannel analyser.

Muirhead-Vactric Components (Stand 8)
(+ Beckman Instruments
+ Hughes Micro Electronics)
Garth Road
Morden / Surrey
SM4 4LL England
Exhibition contact : E.M.B. Binyon
Tel : 01 337 6644; Telex 27796

Exhibited will be a wide range of servo and control components which includes : synchros, resolvers, ac and dc servo motors, motor tachometers, dc torque motors and precision gearheads, optical shaft encoders, synchro to digital and digital to synchro converters, servo amplifiers, fully packaged servo systems. Also on show will be a new range of industrial type stepping motors including size 13, believed to be the smallest of its kind available for the power output given. In addition : potentiometers, resistor networks from Beckman, and CAMAC connectors, tantalum capacitors, MOS and hybrids from Hughes.

Nuclear Enterprises Ltd. (Stand 3)
Sighthill
Edinburgh
EH11 4EH Scotland
Exhibition contact : Miss E.K.S. Grant
Tel : 031 433 4060 ; Telex 72333

Developments on display from the Nuclear Enterprises NIM range include the NE 4550 high voltage multichannel system in which each crate has thirty-two outputs for photomultipliers, each output giving 3 kV 3 mA max (2 mA average), and a multiwire proportional chamber supply NE 4519 giving 6 kV. CAMAC exhibits include the 9080 Serial Crate Controller, a CAMAC Colour Display and a 4096 channel CAMAC Multichannel Analyser.

Solartron Electronic (Stand 5)
Group Ltd.
Victoria Road
Farnborough / Hampshire
GU14 7PW England
Exhibition contact : Julian D. Shaw
Tel : 0252 44433 ; Telex 858245

Pride of place on the Solartron Electronic Group stand will be given to the Maestro Digital Voltmeter. This is supported by other digital voltmeters and multimeters, dynamic analysis equipment and data acquisition units. The recently introduced Maestro DVM uniquely presents its display in decimal format. With its fixed decimal point arithmetic display this product introduces the next generation of digital equipment.

Westinghouse Brake and (Stand 9)
Signal Company Ltd.
Chippenham / Wiltshire
SN15 1JD England
Exhibition contact : A. Smart
Tel : 0249 4141 ; Telex 44751

The Semiconductor Division of Westinghouse Brake and Signal Company will be exhibiting under its new trade name Westcode Semiconductors. The range of diodes and thyristors from 1.5 A to 2600 A and up to 5600 V is comprehensive and a large number of very high power devices have been in service in CERN for many years in ac regulators, controlled dc power sources and as more efficient, long life alternatives to ignitrons in pulsed-magnet power supplies. A feature of the display is the new R220A 1000 Ampere advanced geometry amplifying-gate thyristor, which is available up to 1200 V with 25 microsecond turn-off time.

Willsher and Quick Ltd. (Stand 10)
Walrow
High Bridge / Somerset
TA9 4QA England
Exhibition contact : J. Wyszynski
Tel : 0278 783371 ; Telex : 46145

This company manufactures a range of enclosures and equipment for the electronics and electrical industries. The standard range includes instrument racks, chassis cases, modular systems and card frames. The company also specialises in custom-built enclosures to individual requirements. Included on display will be a range of 19" racks, including the 'C' Rack, specifically designed for CERN.

FOR FURTHER INFORMATION

* BEAMA - The British Electrical and Allied Manufacturers' Association Limited

A national federation of trade associations serving electrical, electronic and allied manufacturing industries in Britain. Co-ordinator and communicator for the British industries, with Government, industry and commerce in Britain and overseas. Forum for enquiry, examination and discussion of improved technical standards and model contract conditions. Promotes services for the improvement and development of trading in Britain and overseas.

The BEAMA federation comprises :

AMA	Association of Manufacturers Allied to the Electrical and Electronic Industry
AXREM	Association of X-ray Equipment Manufacturers
BEAMA TDA	BEAMA Transmission and Distribution Association
BESA	British Electrical Systems Association
BMA	BEAMA Meter Association
CAMA	Control and Automation Manufacturers' Association
EELA	Electrical and Electronic Insulation Association
EIEMA	Electrical Installation Equipment Manufacturers' Association Limited
ICMMA	Industrial Cleaning Machine Manufacturers' Association
PGA	Power Generation Association
REMA	Rotating Electrical Machines Association
SIMA	Scientific Instrument Manufacturers' Association of Great Britain Limited
TACMA	An Association of Control Manufacturers'
WMA	Welding Manufacturers' Association
WTBA	Water-Tube Boilermakers' Association.

British Electrical and Allied Manufacturers' Association Limited
Leicester House / 8 Leicester Street
London WC2H 7BN England
Tel : 01-437 0678 ; Telex : 263536

* MCAC - British Measurement, Control and Automation Conference

Represents the trade associations of British manufacturers in Measurement, Control and Automation for industrial purposes. The constituent bodies are : Control and Automation Manufacturers' Association (CAMA), British Industrial Measuring and Control Apparatus Manufacturers' Association (BIMCAM), Electronic Engineering Association (EEA), Scientific Instrument Manufacturers' Association of Great Britain (SIMA).

The aim of the Conference is to provide joint working arrangements to benefit member companies of the participating constituent bodies, whilst retaining the full autonomy of each. The Conference provides a strong and authoritative point of reference for matters of common interest. Co-ordination is maintained by a Conference Board consisting of representatives from each of the constituent bodies.

British Measurement, Control and Automation Conference
Leicester House / 8 Leicester Street
London WC2H 7BN England
Tel : 01-437 0678 ; Telex : 263536

INFORMATIONS

GENERALES

GENERAL INFORMATION

ROUTE DU "BOIS DE SERVES "

(route de liaison entre le site de Meyrin et celui de Prévessin)

La municipalité de Prévessin-Moëns nous informe que, pour cause de chasse, le chemin communal N° 5 (CV05) (chemin du "Bois de Serves") sera interdit à la circulation samedi et dimanche prochains, les 2 et 3 octobre. Les fonctionnaires CERN ayant l'habitude d'emprunter cette voie sont priés de prendre la route départementale (CD 35), via le rond-point de Saint-Genis pendant le week-end prochain.

VISITES DU CERN

Des visites guidées ont lieu en principe les samedis, sous la conduite du Service de Presse et Visites, avec l'aide de membres du personnel du CERN ou de ses utilisateurs. Cette aide se manifeste par des fonctions de réceptionnistes féminines, de conférenciers et de guides.

Une rétribution appropriée compense ces activités qui contribuent à donner au public une meilleure idée de ce que fait l'Organisation.

Le Service Presse et Visites recevrait volontiers les candidatures de personnes désireuses de se trouver en contact avec le public, possédant une bonne connaissance d'ensemble du CERN, et capables de l'expliquer en termes simples.

Détails et formulaires ad-hoc leur parviendront au reçu du coupon ci-dessous :

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A renvoyer à DG/PV - Bâtiment 60

Je souhaite recevoir des renseignements concernant
les fonctions de réceptionniste // conférencier //
guide // des visites du samedi.

Nom :

Div.:

Tel.: