



COMMON/CSCAL/IBM , NERR,NCH,NCAL,NAN,NBR,NIN,N
1 IYSEL,IYSEU,IYMAX,NTRACK,NSCAL,NAN,NBR,NIN,N
2 NBEGIN,NTK,NTRY,NMISS,NSSR,NFID,MAXMIN,NFIRST,NEND ,JTR
COMMON/CFID/MFX(20,3),MFY(20,3),NFX(10,3),NFY(10,3)
3 XTAB(2,20,3),NX(100,4),NY(100,4),XN(2),YN(8),IB
4 R IDY(100,2),JDX(4),JDY(4),IHS(4),IQV(2),IUN(2),
5 S NCF(16),IFS,NFS,FX,FY,JK,PIC,KPIC,NCOUNT,NBIN
6 T MAXN,CTA,CTB,MX,MY,JA,JB,JC,JD,JE,JF,N
7 DIMENSION NCTR(144),NGTR(20),CTR(112),NCT(12),MODE(2)

"I DECLARE THE
LIBRARY OPEN"

of Nuclear Physics. In addition he was the prime mover in getting the UK participation in the CERN SPS project; he had "a profound influence on this". Tribute was paid to the support given to Dr Pickavance by his wife. Professor Burcham concluded by saying that "Gerry has always seen more clearly than most how things were developing. The Library was a necessity and Gerry had seen the need".

After the short unveiling ceremony Professor Burcham presented Dr Pickavance with a tray (designed by Phil Crane) as a memento of the occasion and Mrs Pickavance with a bouquet of flowers. The final words came from the present Director, Dr G H Stafford who told the assembled guests that "In recognition Gerry has given a contribution to the Library for the purchase of some books". Perhaps the most significant words spoken on this day were those murmured by Dr Pickavance as he entered the Library for the first time "At last!"



Gerry pulls the rip cord



presentation of the tray



admiring the flowers

* * * * *

For this special edition two articles have been contributed by specialists in their fields. The first is by the Laboratory's Librarian, Mrs E Marsh. Elizabeth Marsh joined the Lab in August 1969 as Head of the Library and Information Services. She started her career near by in the AERE Library; her next appointment being a little further away in Australia where she worked in the Library of the Australian Atomic Energy Commission at Lucas Heights. She then moved to the Library of the Australian Atomic Energy Commission at Canberra in charge of cataloguing of all science books. On her return to the 'old country', Elizabeth became the Librarian at the CEBG Research Labs at Leatherhead.

The second article entitled "Bricks & Mortar" is by Phil Crane who, as a member of the Building and Civil Engineering Group has been mainly responsible for the design of the new Library. In his article he describes the reason for the location of the new building and tells something of the method of construction, types of materials used and how a number of the Labs services combined to produce the finished article. It is appropriate here to thank Roy Tolcher, Head of Mechanical and Electrical Services for information on the various services which his section provided, which has been incorporated in Phil's article.

topping
up
for the
ceremony



WHAT IS A LIBRARY?

A library is an organized collection of many thousand separate pieces of information and a librarians job is first to organise these and then to find them when needed. As with so much else in this life, theory and practise some times part company but we hope to keep this "Uncertainty Principle" to a minimum in the new Library. A central position, very comfortable surroundings and excellent equipment leave few excuses for an inadequate library service.

The Library contains three main types of material. About 10,000 books provide a base collection with the main concentration on HEP but a spread covering politics to photography. Two hundred titles provide more recent information; we have most of the standard physics journals and a selection in the other fields which interest the Laboratory. Reports and preprints provide the most up-to-date publications and most of the 40-50,000 we hold were obtained by exchange agreements with other laboratories. We receive just over a 100 reports a week, depending on which country has a postal strike. The reports will shortly be stored and displayed in a new separate area within the Reading Room. About 5,000 reports are available on microfiche and we have new equipment for reading these, including 2 portable readers for office use, and a reader/printer for producing paper copies.

The Xerox 4000 provides normal copying facilities; it can print on both sides of the page so reducing bulk and saving paper.

Other literature includes, all British Standards, data manuals from the main electronics suppliers and a collection of general reference books. If you want to know that your new shrubs and roses are up to standard, try BS 3926; If you want to know why you are having difficulty obtaining that transistor try DATA Discontinued Transistors and Semicon Transistor Data Manual for a possible substitute. For postage to Tahiti, conferences in 1976, the address of the Yakutsk State University or how many firms are part of I.C.I., ask the library staff to show you the appropriate reference book.

Across from the Reading Room is an area housing the microfiche, their readers and the slide library and Thermofax machine. Around the outside walls are five study rooms, just a table and chair - but NO telephone. The rooms can be occupied for an hour or a month, tell the library staff or leave a note if you want papers left undisturbed.

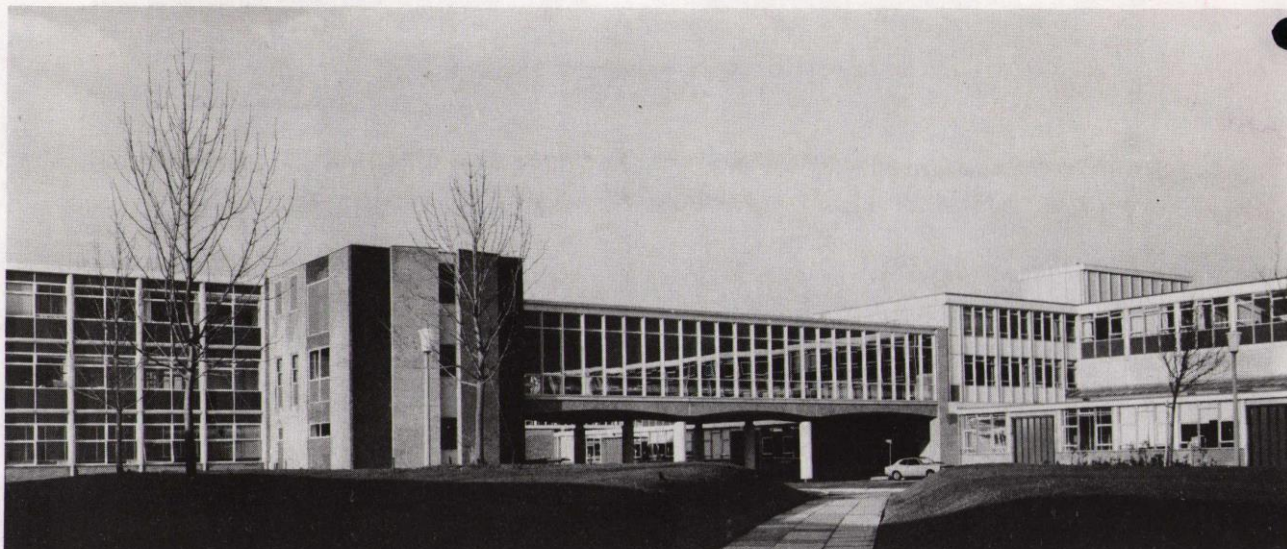
On the ground floor the library has a very large stack area. This holds back runs of journals and spare copies of Rutherford publications. RL reports are distributed from here to the 300 establishments on the

standard HEP list - with separate lists for Theory and NBRU. From the spares we deal with about 200 individual requests a month throughout the world - someone out there likes your work.

Obviously the library cannot stock everything, but we belong to a family of libraries both in this country and overseas. It takes longer to get things from British Library, Boston SpA than from our own shelves and even longer from the National Diet Library, Tokyo, but if you want it we can usually get it. And the books we lend to Albania always come back.

In addition to finding the things you ask for, we also try to tell you what is available. New publications are usually notified by means of distributed lists such as: Recent Additions to the Library (reports and books) Rutherford new publication (new RL reports), References in Cryogenics and Superconductivity (anything in any form on the subject) and new preprints received at SLAC, CERN, DESY and Daresbury. Before you drown in a sea of paper, the Library provides two services we hope will leave you a little time for research. On a one-off basis when starting a new project, writing a paper or just curious, ask for a literature search. The subjects undertaken vary from solar heating to electron-positron annihilation, from hovercraft principles for moving heavy equipment to πp reactions producing ΣK . Sometimes we can find no written information in a suitable form and then we try to put you in touch with someone who can give a guideline. The other information service, called SDI for Selective Dissemination of Information, is still largely restricted to HEP, although it could be extended on demand. Tell us your interest (scientific please, we're easily shocked) and we will arrange a regular print-out listing all new papers in that interest on a fortnightly or a monthly basis. Seventeen people get this service at present and as with the other service it will be extended by the installation of a computer terminal in the library in the next few months.

The Library is there to provide a service, if you want to work quietly or browse we have some comfortable chairs (or the carpet) and peace and quiet. If you want help, information, or a translation, ask the library staff; you won't disrupt their work because helping you is their work. Browsing through the selves is interesting, but if you want something specific, asking for help is usually quicker. If you don't think the Library is adequate - complain; we want to know if things are wrong so that something can be done about it and we can offer the best possible library service to all Laboratory staff.



BRICKS & MORTAR

The need for a new library gave the opportunity of filling a gap between two existing buildings in a form that is both attractive and functional.

The new building, designated R61 is designed as a 30 metre span bridge and with its gold colour window forms a focal point to its central location. The colours and textures of the various materials are chosen to harmonise with surrounding buildings. The 3-storey block anchoring the south end is built of buff and dark brown brick as a foil.

In linking together R1 and R25 with the new library advantage is taken of the Toilet, Cloakroom and Staircase facilities already existing in those buildings. Some reorganisation has been necessary and the creation of a Coffee Lounge for staff and visitors is perhaps the most obvious and popular feature.

Accommodation is provided in the bridge for the main library hall and the connecting corridor from R1. The 3 storey block contains the operations side of the library. The ground floor is one large room devoted to storage of library material, post area and small workshop and is linked to the general office above by a document lift. The block has its own entrance lobby communicating both with the adjacent R25 entrance hall at the west courtyard, enabling goods to be delivered directly to the post area.

At first floor level the library hall continues into the 3 storey block to form the reception and main library entrance with accommodation for the Librarian, General office & Xerox room. The corridor continues through the block to link with the R25 staircase enclosure, this staircase being used by library staff for communication with storage area below.

The remainder of this floor is devoted to Micro Fiche and Micro Card Reader and 5 small rooms for personal study. Second Floor level accommodates the ventilation plant room and, when completed, a fully equipped conference room.

The bridge is a structure of reinforced concrete beams supporting hollow plank floor slab units. These are finished with a multi layer screed incorporating an insulating membrane. The longitudinal arch beams are precast and integrally faced with Thames Valley exposed aggregate. Reinforced concrete columns provide intermediate support to the beams. A structural steel frame built up on the bridge supports a low pitch metal deck roof insulated with extruded polystyrene panels and weather proofed with a hypalon based single layer roof covering.

The east facing wall of the bridge is a special feature being formed of gold tinted double glazed solar control glazing units supported by an anodised aluminium glazed wall system.

The west wall is of insulated sandwich construction,

flat sheets internally and corrugated profile plastic covered steel panels externally with window panel units at intervals.

The 3 storey block is of largely traditional construction with load bearing brick walls, concrete floors and metal deck roof, similar to the bridge. Windows are aluminium single glazed, those at the East end being of the lancet pattern, ie tall and narrow.

The thermal insulation of the building has been given special consideration in conjunction with heating and ventilation services to provide a pleasing working environment.

The heating, lighting and ventilation services are totally integrated with the suspended acoustic ceiling. The library hall is ventilated by air delivered through a linear grill adjacent to the east side window wall and extracted through the light fittings into the void above the ceiling. Fresh air is used for cooling when suitable but cooling water from the main chilled water plant will be used when the outside temperature is high.

A device termed a heater battery is used for heating the mainly recirculated air in Winter. Horizontal heating rails are installed to provide background heat near the bottom of the window wall and also to the corridor. Offices, Micro Fiche area, Studies and Conference Room have natural ventilation and low pressure hot water heating.

Low brightness light fittings with natural colour rendering are used in the library hall to provide glare free lighting.

Inside the library every effort has been made to create an atmosphere of tranquillity conducive to the study of abstract documents (such as Men Only? - Ed).

Floors are fully carpeted and extensive use is made of contrasting wallpaper and fabrics.

The specially designed reception desk unit and tables were purpose made for the library by a local craftsman. The timber for these units together with doors and frames is Afromosia while the shelf units by Remploy are in Abura.

The multi-purpose Conference Room is being fully equipped with modern teaching and lecturing aids.

It is intended to fully landscape the area in conjunction with a scheme being developed for the west courtyard. This embraces some alteration to the road layout, provision of variegated multi-level paving, planting of roses, groundcover and a small number of semi-mature trees including at least one mature specimen.

The resulting complex of buildings house a compendium of knowledge and learning, useful and sometimes not so useful information the extraction of which is, we hope, made easier by the building of the new Library.