ARCHITECT THE JOURNAL



standard

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every issue does not necessarily contain all these contents, but they are the regular features which continually recur

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No. 3446] [Vol. 133

THE ARCHITECTURAL PRESS

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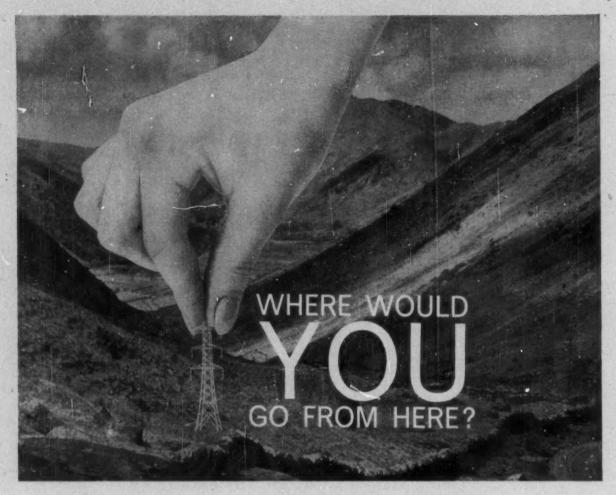
IBDID

Price 1s. od. Registered as a Newspaper. ★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their addresses and telephone numbers. The glossary is published in two parts—A to Ii one week, Il to Z the next. In all cases where the town in not mentioned the word LONDON is implicit in the address.

the word I	LONDON is implicit in the address.	
AA AAI	Architectural Association, 34/6, Bedford Square, W.C.1. Association of Art Institutions. Secy.: J. H. Holden,	
ABS ABT ACGB ADA ARCUK BAE BASA BC BCC BCC BCCF BCIRA BDA BE BEDA BIA	College of Art, Cavendish Street, Manchest Architects' Benevolent Society. 66, Portland Place, W.1. Langham Association of Building Technicians. 156, Waterloo Road, S.E.I. Waterloo S Arts Council of Great Britain. 4, St. James's Square, S.W.I. Whitehall Aluminium Development Association. 33, Grosvenor Street, W.1. Mayfair 7 Architects' Registration Council. 68, Portland Place, W.1. Langham Board of Architectural Education. 66, Portland Place, W.1. Langham British Architectural Students Association. Building Centre, 26 Store Street, W. Building Centre, 26, Store Street, Tottenham Court Road, W.C.1. Museum British Colour Council. 13, Portland Square, W.1. British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5. Ealing British Cast Iron Research Association. Alvechurch, Birmingham British Door Association. 10, The Boltons, S.W.10. Fremantle Building Exhibition. 11, Manchester Square, W.1. Glasgow, C.2. Glasgow Central	1 5533 427/8 1 9737 1501/8 1 5861 1 5721 V.C.1. 1 5400 1 4185 2 9621 1 h 716 2 8494 1 1951 1 9434
BID BINC BOT BRS BSA BSI CABAS	Building Industries Distributors. 52, High Holborn, W.C.1. Building Industries National Council. 11, Weymouth Street, W.1. Langham Board of Trade. Whitehall Gardens, Horseguards Avenue, S.W.1. Building Research Station. Bucknalls Lane, Watford. Building Societies Association. 14, Park Street, W.1. British Standards Institution. British Standards House, 2, Park St., W.1. Mayfair City and Borough Architects Society. C/o S. A. G. Cook, A.R.I.B.A., Borough Architect and Director of Housing, Town Hall, High Holborn, W.C.1.	y 7772 n 2785 r 8855 n 4040 r 0515 r 9000 gh
CAS CCA CDA COID CPRE CUC DIA EJMA	Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehal English Joinery Manufacturers' Association (Incorporated). Sackville House	ter. a 6661 r 8811 r 8000 e 4280 e 9116 il 0540
EPNS FAS FASS	40, Piccadilly, W.1. Regen English Place-Name Society. 7, Selwyn Gardens, Cambridge. Faculty of Architects and Surveyors. 68, Gloucester Place, W.1. Welbeck Federation of Associations of Specialists and Sub-Contractors.	k 9966
FBBDO	Fibre Building Board Development Organization Ltd. (Fidor).	
FBI FC FCMI FDMA FLD FMB FPC FRHB	Stafford House, Norfolk Street, W.C.2. Covent Garder Federation of British Industries. 21, Tothill Street, S.W.1. Whitehal Forestry Commission. 25, Savile Row, W.1. Regen Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. Sloam Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeste Friends of the Lake District. Pennington House, nr. Ulverston, Lancs. Ulverst Federation of Master Builders. 33, John Street, W.C.1. Tel.: Chancery 7583 (6 Federation of Painting Contractors. St. Stephen's House, S.W.1. Whitehal Federation of Registered House Builders. 82, New Cavendish Street, W.1.	II 6711 at 0221 e 1002 on 623 on 201 5 lines) II 3902
GPDA	Gypsum Plasterboard Development Association. 11, Ironmonger Lane, B.C.	2.
GC GG HC IAAS	Gas Council. 1, Grosvenor Place, S.W.1. Georgian Group. 2, Chester Street, S.W.1. Housing Centre. 13, Suffolk Street, S.W.1. Incorporated Association of Architects and Surveyors.	ia 4321 ia 3081 ill 2881
ICA ICE IEB	Institute of Contemporary Arts. 17-18, Dover Street, W.1. Grosvence Institution of Civil Engineers. 1, Great George Street, S.W.1. Whiteha Institution of Electrical Engineers. Savoy Place, Victoria Embankment, W.C.	or 6186 all 4577 C.2.
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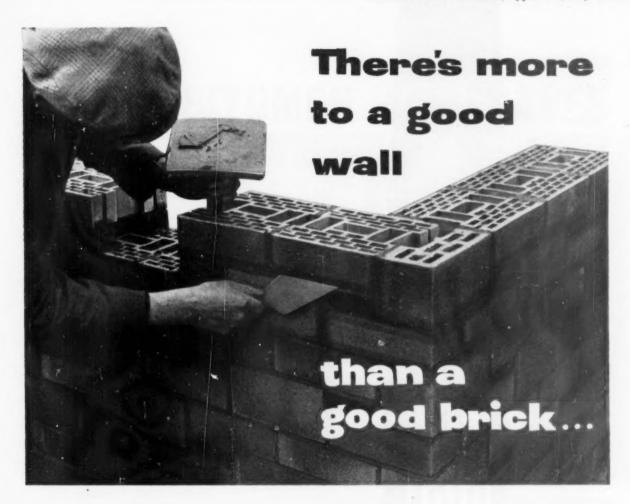


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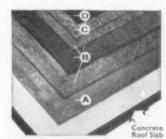
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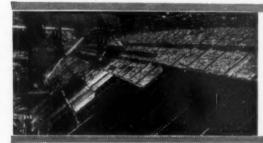


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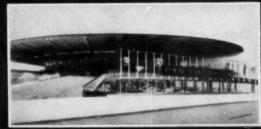
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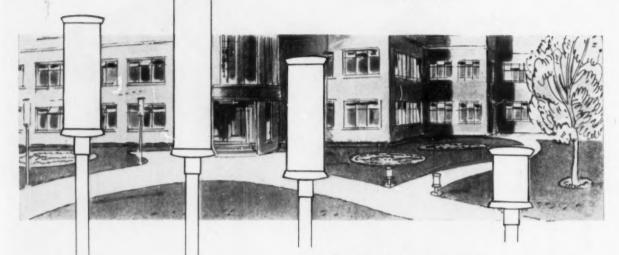
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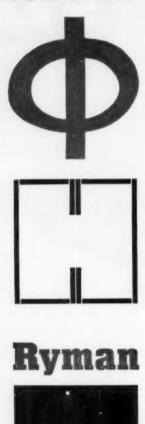
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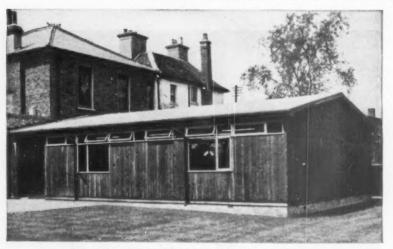


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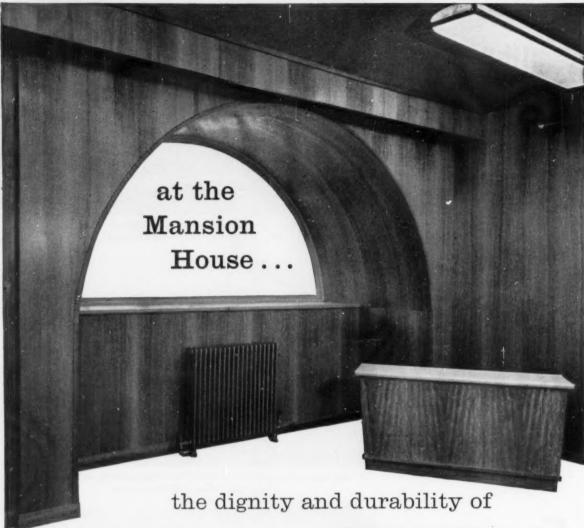


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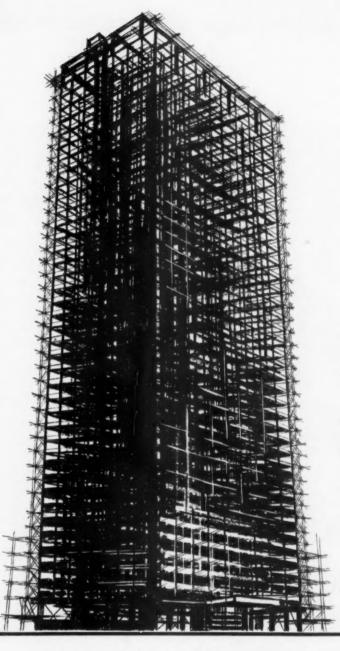
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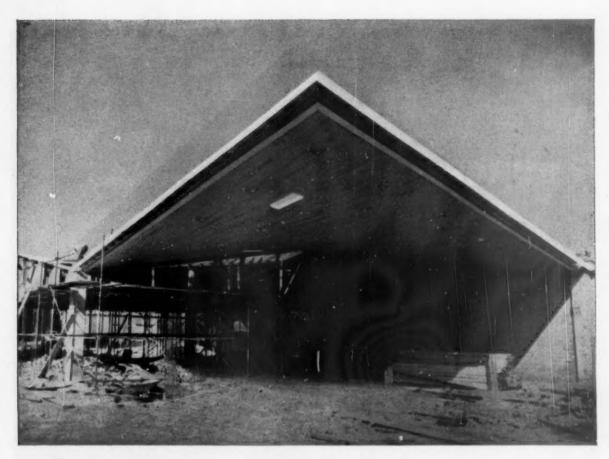
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Sweep and Short Radius Bends-111*, 221°, 45°, 90°

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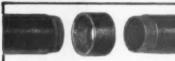
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Junction 90°



Adaptors—Flexpipe to stoneware and cast iron



Knuckle Bends-45° - 90°



Junctions 135° - 120° 1124° - 95° - 90°



Sweep and Short Radius Bends-111, 221, 45, 90

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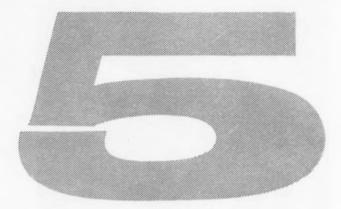




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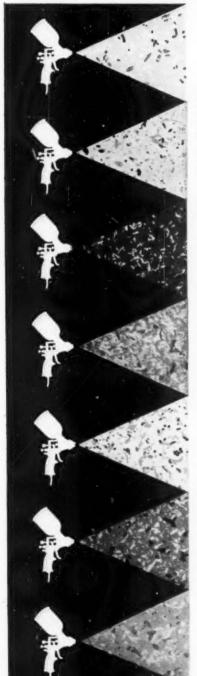


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THE ARCHITECTS' JOURNAL (Supplement), May 4, 1961

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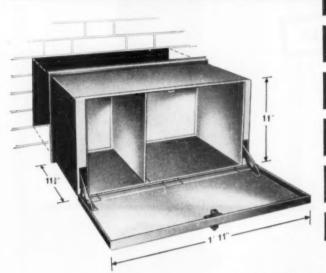
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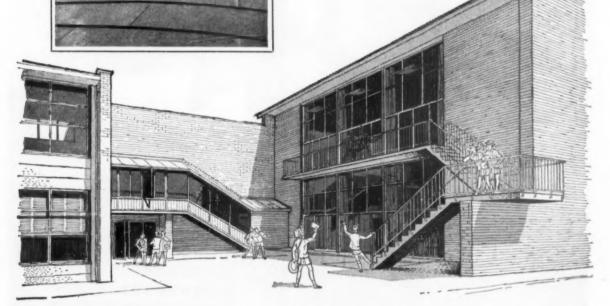
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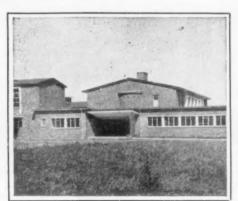


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Top left and Centre left: Duck Lane School, Bournemouth Architect: Borough of Bournemouth Architect Roofing contractors: R. G. Greenland & Co.

Bottom left: Nottage School, Porthcawl, Glam.

Architects: F. R. Bates & Sons and County Architect Roofing contractors: Hugh Twaddle & Sons Ltd.

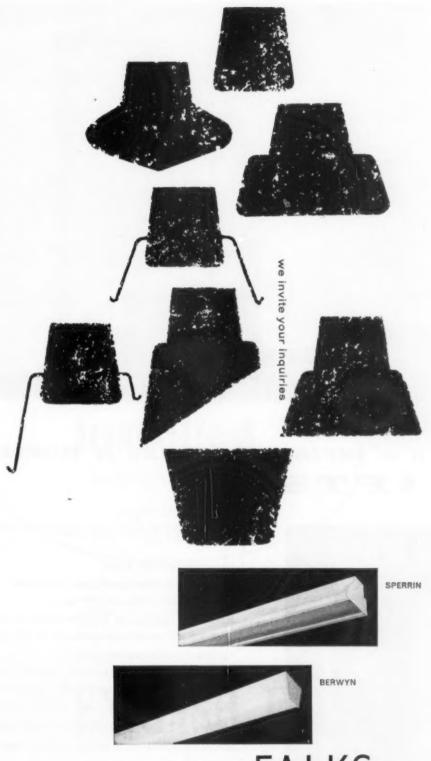


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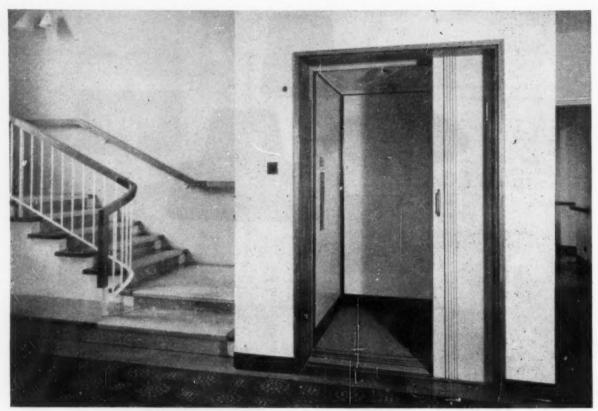
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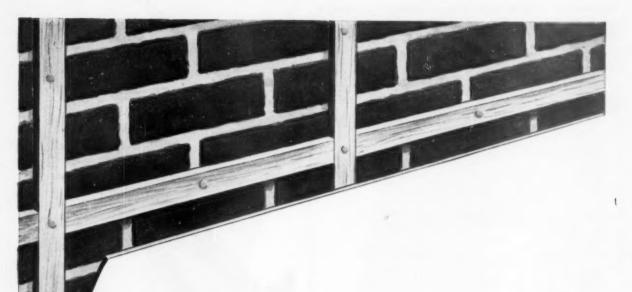


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THE ARCHITECTS' JOURNAL (Supplement), May 4, 1961

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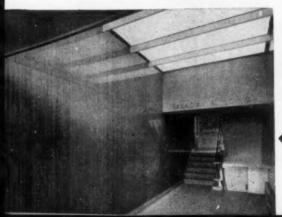
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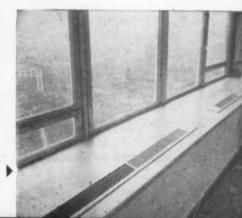
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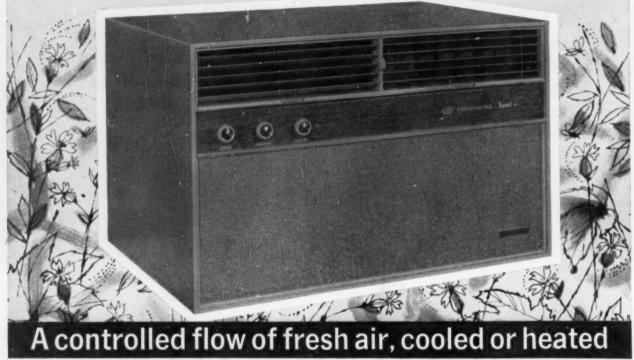


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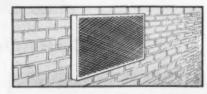
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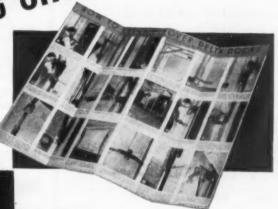
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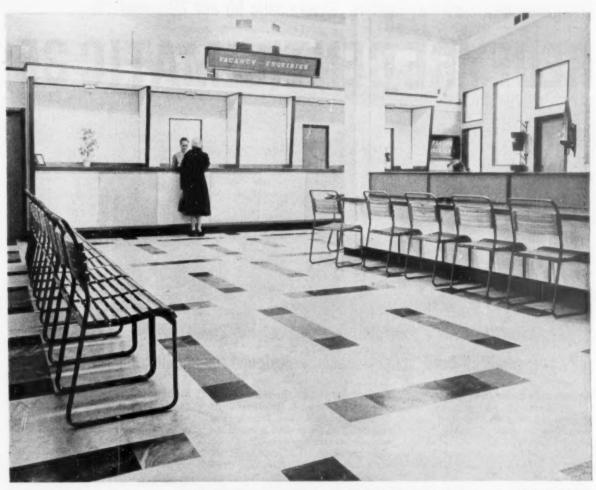
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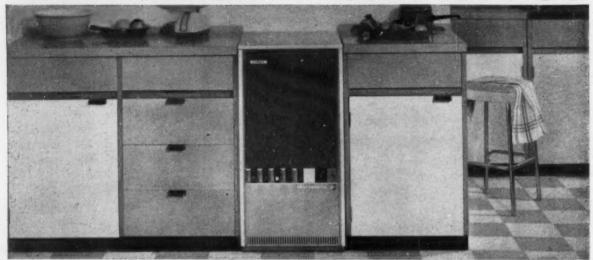
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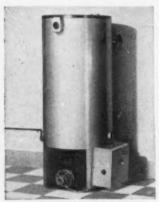
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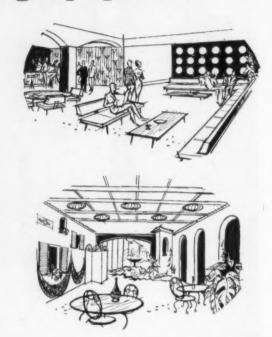
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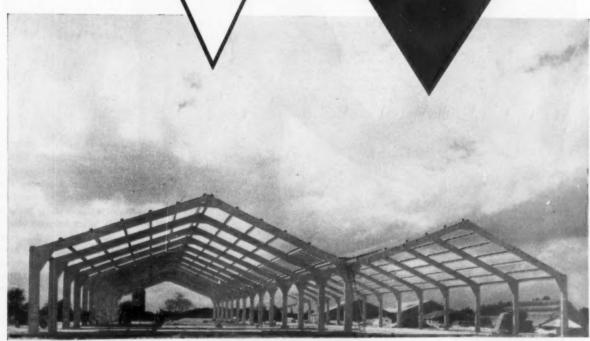
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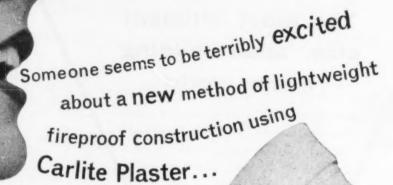


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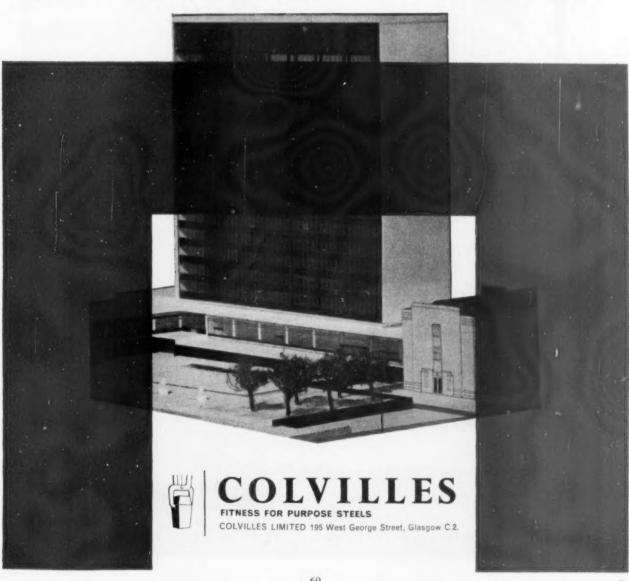
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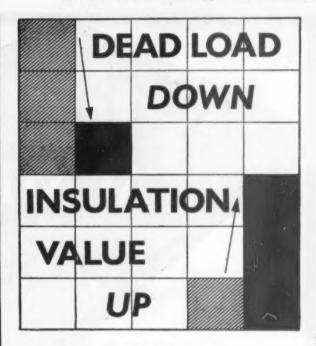
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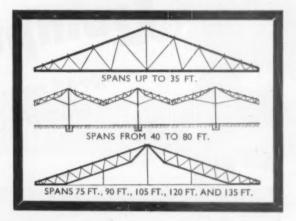
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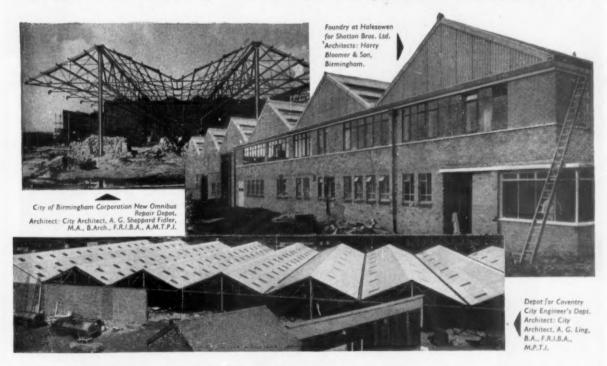
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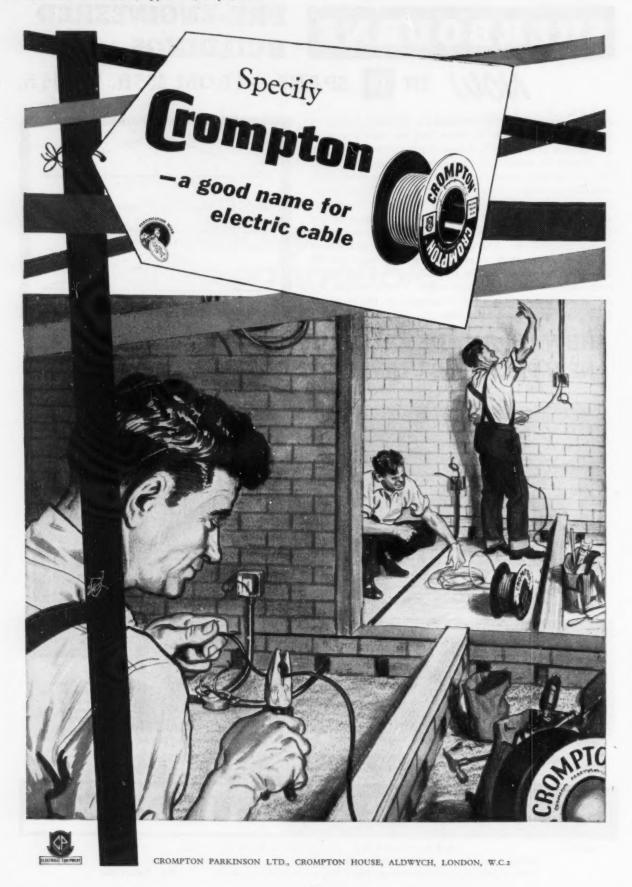
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Right Hand Illustrations: Staircase balustrade and cloakrooms using Terrazzite. Photos by courtesy of E. Seifert & Parmers, Chartered Architects. London W.C.1.

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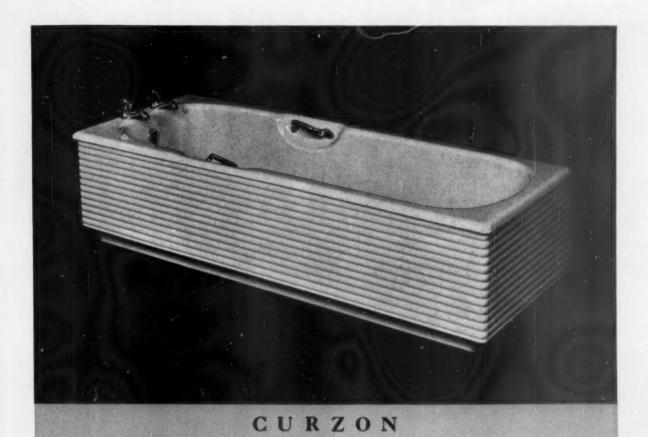
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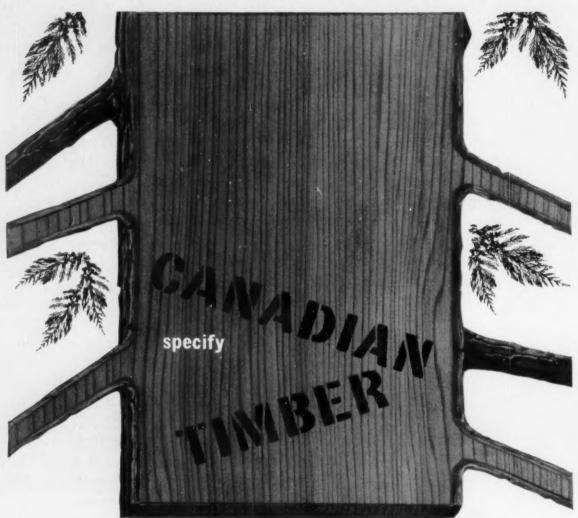
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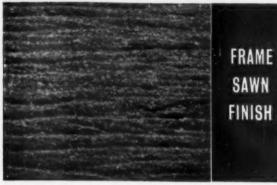


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The Architects' Journal

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May 4, 1961

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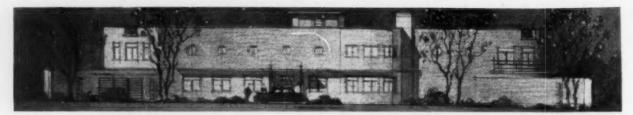
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NOT QUITE ARCHITECTURE

Counter-Attack, NY

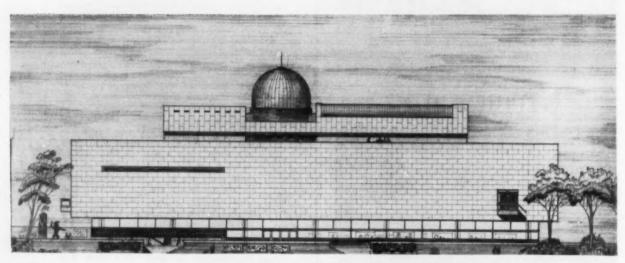
Madison Avenue was a disappointmentthe only things that had been run up flagpoles were flags, and nobody saluting them; not a cookie crumbled, not a ball bounced nor a head rolled. Washington Square was a disappointment too. Certainly, there was the famous arch, and, obviously, at a bare 40 degrees temperature and a half gale blowing, you couldn't expect much ethnic song or open-air chess-though I did notice one real note of protest, a man, not dressed in a Beatnik kit, but leaning on an unmistakably British bicycle. But the real disappointment is that it is no longer a square. When you see how Harrison and Abramovitz's Catholic student centre (a routine curtain wall slab and a freeform, blind, brick auditorium on a routine podium) has demolished any sense of enclosure on the south side, you realise that the campaign to save the Square was not concerned with visual amenity, as most such British campaigns are, but with a simple battle between

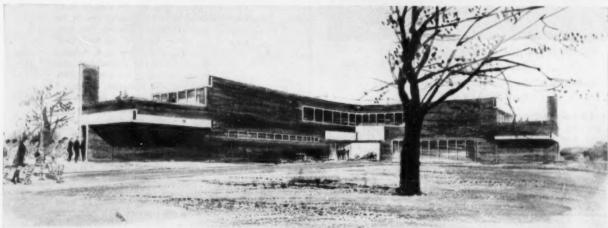
pedestrians and traffic. Simple, the man says. Actually, it involved some massive political manoeuvring, and also involves the death of a myth that most Europeans cling to-the idea of Parks Commissioner Robert Moses as one of the creative geniuses of the century. No criticism of the Moses that was-the New York Parkway system, what I saw of it, remains a triumph of roadscape engineering that few of the Autobahnen could compete with. But in 1958 he was proposing to run a major traffic artery slap bang through the middle of Washington Square into the southern part of Greenwich Village, and the Village rose as one man-30,000 petition post-cards is a very big slice of the Villagers. Beg pardon; rose as one woman, for the defence of Washington Square was first and almost last a largely distaff affair, as with the campaign against car-parking in Central Park, which was stopped by mass rallies of moms with prams. The embattled



Full Circle?

Something fresh you cannot help noticing about the usual mixed bag in the architectural room at the Royal Academy is the way in which younger architects moving backwards (what Pevsner recently defined in a state of alarm as "the return to historicism") have now gone far enough to find themselves quite near to alignment with the older generation who have always designed that way. These three designs tend to make the point; top, Prospect House, Brook, Surrey, by Philip D. Hepworth; centre, a museum, Kingston-upon-Hull, by Frederick Gibberd; and bottom, a new boys' house for the Royal Philanthropic Society at Redhill, Surrey, by John Wright. For further comment about the exhibition, which opened last week until August 13, see page 638. If you do go, by the way, head straight for gallery VIII, where there are actually some paintings which look as if they had been done in the twentieth century.





The Editors

THE RIBA CHARTER

matriarchs of the Village versus Moses were Shirley Hayes, first in the fight and long regarded as eccentric, Jane Jacobs, currently fighting a Victor Gruen scheme to urbanrenew her beloved Hudson Street, andamong others-Mary Nicholls who seems to have been the most instrumental in making the Village Voice an effective weapon in the battle. Funny about the Voice-it has become legendary in Europe as one of the Feiffer's first outlets and is otherwise regarded as a Beatnik organ, but, in fact, it is one of the most intelligent and wide-awake community newspapers in the English-speaking world. Hampstead and Chelsea papers please copy.

What the fighting ladies were defending was not a scene, but a certain acreage of open space in which kids could play and prams be pushed, the natural focus of village life, and, also, a natural bulwark between Mid-town and Down-town, Had Moses got a traffic-run through the middle he would have been creating, for certain interested parties, the chance to develop properties that had Fifth Avenue addresses and Village addresses at the same timewhich would doubtless be as profitable as a simultaneous Bond Street and Chelsea address, but would have been a sham because the Village would have been destroyed by the road. (One observes some highly speculative new apartments by the South-East corner of the Square-a bit premature perhaps?)

Round One of the battle was won in 1958 -the Square was closed to all (except emergency) traffic. Fifth Avenue busesproud galleons of the grid-plan Main-still come past the arch to turn round inside the Square. This looks natural to me, but is regarded as the thin end of the wedge locally. The trouble is that Round Two of the battle has still hung fire-although traffic has been stopped and Moses has been kicked upstairs to run the next World's Fair, three years of arm-twisting and threats have not made his successor draw up a new planning map that does not show a future road through the Square, and so the way is still open for non-Village interests such as New York University, to re-open the battle any time it likes (NYU has an attitude to its property on the Square very similar to London University's view of Bloomsbury before the Leslie Martin plan).

Battle proceeds, and a new one is blowing up over the Wolfson, Cotton, Gropius and Belluschi project for Grand Central Station. As soon as you see the site, you realise that only an idiot would want to put the world's largest office-block on a piece of ground so ill-provided with traffic outlets, and no amount of casuistry can excuse Gropius's part in a scheme that makes Piccadilly look almost sensible. A few years ago everyone would have thrown their hands in, but now that the ladies have shown that you can beat City Hall, it's up to the men (headed by Doug Haskell of the Forum) to show that you can beat big business too. Perhaps the Civic Trust would like to organise an expeditionary force to show New York how it is done?

REYNER BANHAM

NE of the points about the proposed revisions to the RIBA bye-laws, which were considered at a special general meeting last week, is that they have had to be framed within the wording of the Institute's Charter. It thus seems, at least for the moment, that the RIBA Council have no intention of changing the Charter, and probably are reluctant to do so. This is very understandable, since we gather that the process is liable to be long, involved and extremely expensive, and that the changes proposed need not necessarily be accepted.

Nevertheless, we wonder whether the time will be approaching soon when the RIBA will have to screw up courage to make some changes, because the present one is getting too out of date. It is interesting to note that the 1887 Charter was revised in 1909 and 1925, so that the time span since the last alteration is the longest in the present century. There is, for instance, the question of the different classes of membership. The Licentiates will, of course, eventually disappear as a class, and this should presumably be dealt with in due course in the Charter. There are also certain limitations about some of the Institute's officers having to be Fellows, which may become awkward if this class of membership continues to decrease in number. Should the Institute ever consider that students should be allowed to have some say in its affairs, then again the Charter would seem to need revision.

But the main worry we have is that the relationship between the bye-laws and the Charter is, on the face of it, in some places inconsistent. This is no reflection on the Constitutional Committee who have been responsible for the current byelaw revisions, since such inconsistencies have grown up through the years, and are just as evident in the bye-laws at present in force. One of the more striking instances is in the case of Council elections. While the postal ballot has now been in effect for some time, the Charter still says that the Council is "to be elected at a General Meeting of the Royal Institute . . ." in a manner described in the bye-laws. We are always in favour of people being able to circumvent regulations where the intention is well founded. But is the Institute quite sure that some completely misguided member might not create trouble out of this sort of situation, even to the lengths of a legal action? Even though the bye-laws have just been combed through and brought generally up to date, it would seem to be a good moment now for the RIBA to reassess its policy with regard to the Charter, since revision is such a long and technical process.



NEW PRECEDENT

The first post-war-qualifying architect to become president of the AA is Michael Austin-Smith. ASTRAGAL reckons that his protest at the RIBA's special general meeting last week about the AA's representative on the Council being thrown out (to the smug delight of those jealous of the AA's tradition of progressiveness) augurs well for the future.

Last week quite a reasonable discussion emerged at the AA on the possibility of testing building materials and products by the Consumers' Association, the publishers of the invaluable "Which." The Association are considering a quarterly publication printing the facts about six products per issue, and a provisional list of 350 items has been drawn up. They only expect 10,000 subscriptions from architects and builders, so fees could be from 10 to 20 guineas.

Most of the audience, ASTRAGAL guessed, were keen on the idea of a Building "Which"; Peter Newnham thought the 10 guinea charge very little in order to learn which materials really work, and Oliver Cox, probably the only architect to have had experience of tests (at the LCC) was strongly in favour.

One speaker raised a point once made in the AJ: Why not make it obligatory for all manufacturers to publish the performance of their products? Oddly enough both the representative of the Consumers Association, Caspar Brook, and David Vickers of BSI thought this perfectionist, unnecessary and an intrusion on freedom.

SEE WHAT TWO CAN DO

Frank Yerbury always seems to have to have lived twice as long and done twice as much as everyone else, so it seems only appropriate that when he relinquishes the post of Director of the Building Centre at the end of the year he should be succeeded by two men: Gontran Goulden and Robert Nott. ASTRAGAL'S good wishes to all three.

LONDON BUILDERS

A London Master Builders' lunch for the Lord Mayor sounds a routine, formal occasion, but last week it was an unusually enjoyable event, with excellent food, and a masterly survey by president R. F. Mansell of the industry's problems to which Lord Mayor Waley-Cohen added a few Mansell extolled firm price more. tendering, maintained that we were catching up in speed of building with the Americans, deplored the way building regulations limited advances in new techniques and materials, and wanted architects, surveyors and builders jointly trained in "a sound scientific education."

Not to be outdone, Waley Cohen asked for: higher pay for real skill; better respect for the work of other trades; tenders written in easily comprehensible English; greater speed in building (unfortunately he instanced civil engineering) and finally, "I have been staggered and horrified how the routine installation of an oil heating unit is regarded as a mystic science by all concerned"—well said.

A PEER AT PLANNING

Anthony Wedgwood Benn, alias Lord Stansgate, has conducted an unusual campaign for the seat he wants to win and occupy for South East Bristol. Instead of the usual superficialities which pass for political speeches he has organised appearances by guest experts on particular problems. By doing so he has focused more attention on town planning than any other candidate in history or, at least, in my knowledge of it. His supporters have included Richard Llewellyn Davies, Sir Basil Spence, Percy Johnson-Marshall and Edward Carter—and he has had backing from the Bristol Architects Forum, which laid on an exhibition of local replanning.

TIERS, IDLE TIERS

Lewes council has decided to adopt a modern approach to housing layout and fittings. If you don't think that a pity then read on. The decision was made, according to the Municipal Journal "because houses represent such a big capital investment" and the council "felt it sensible to adopt a modern approach—similar to that of the private developer." Lovers of Sussex and of one of the loveliest towns in the south are advised to keep their distance from the result of this "modern approach," which has flats with "a pleasing ironwork balustrade," tiled fireplaces, "chain length" (sic) fencing and dwarf garden walls.

A thousand curses, if you will permit me to say so, on all those in the country



When the borough council of Bexley-heath bought the remains of the local Danson Park and gleefully organised boating on its Capability Brown lake, the adjoining temple, designed by Chambers, had already suffered the indignity of neglect and a swipe from a passing elm tree. But its threatened demolition was postponed by a local campaign and a word or two in "The Times." It has now been rescued by Sir David Bowes-Lyon who proposes to rebuild it by a lake at Walden Bury.

(councils, spec builders and thunderingly ineffectual architects and engineers) who continue to mess it up. With one or two exceptions too obvious to be cited yet again, there is barely a hamlet, town or village where new housing enhances the old—in spite of ministerial medals and the pleas of dogood societies. What the architectural profession needs is not a lower tier but an upper one.

EVERY INCH AN INCHBALD

Michael Inchbald, the interior decorator with a flair for turning old light fittings into coffee tables and ventilator grilles into bookcases, has done some ingenious treasure hunting at the Law Society's headquarters in Chancery Lane. Among his finds are portraits of forgotten legal figures which now line the white and orange ("call it amaryllis") walls of the Ladies' Annexe. Mr. Inchbald has done a very skilful job of converting a gloomy near-basement and an adjoining cellar into a reception room and a dining room with a feeling of spaciousness.

CULTURE IN CUSHENDUN

In the Clough Williams Ellis village of Cushendun, on the Antrim Coast of Northern Ireland, the out-of-season visitor was mildly surprised the other day to see an invasion by a formidable collection of Aran sweaters, beards, black suits with bow-ties, and tweed jackets with no ties. It was the occasion of a first-time-ever meeting of practising architects and artists from all parts of Ireland. A good deal of self-discipline was exercised because while the sun shone strongly on the chalk cliffs and sparkling sea outside the conference hotel, curtains were drawn in the upstairs room from ten in the morning until seven in the even-No restraint, however, was noticeable thereafter in the consumption of salmon netted at the doorstep and of the wine of the country, which helped later to produce folk music from quite unexpected sources.

The venture was launched by the Royal Society of Ulster Architects and the forty-odd participants voted it such a success that it will be repeated regularly in different parts of Ireland.

Architects and Technical Information

We repeat below details of the JOURNAL's programme of study on the problem of the contents of the practising architect's personal reference library, which was first published in the AJ of April 13.

AJ Fellowship of Up To £2,000

The AJ is offering up to £2,000, according to the experience of the candidate, to an architect who can devote a period of not more than one year to directing, co-ordinating and editing the programme of work briefly outlined above. Applicants should write to the Editor, The Architects' Journal, 9-13, Queen Anne's Gate, Westminster, S.W.1, giving details of their experience. Applications must be submitted by May 15. Bearing in mind the potential value of the experience gained in carrying out this work, we earnestly hope that offices will allow architects to be seconded for a year.

What should be the contents of the practising architect's personal reference system?

It has now been officially recommended that the SfB system of classification should be adopted for filing technical information. What has not been recommended is what technical literature should be beside every architect's drawing board.

The JOURNAL, with the co-operation of a number of leading public and private architectural offices, is now attempting to solve the problem of what literature should be available.

In brief we are proposing to make SfB classification the formal framework into which technical information must be fitted. We are using the "Building Element" headings (1) to (9), as it is in the design of the elements of a building that architectural problems mainly arise. It is therefore appropriate to file the technical information which can help solve these problems under these element headings also.

We are asking our architect collaborators to do three things:-

- (1) To prepare a design procedure for each of the 60 or so principal element headings: that is, a check list of all the aspects of design which must be borne in mind.
- (2) To prepare a list of references related to this check list, telling the architect where to look for data needed in all stages of the design process.
- (3) To prepare a short article which will amplify or simplify one or more aspects of the bibliography.

The result of this work will be published in a special series of weekly supplements to the JOURNAL. This will be planned to start in mid-1961 and the list of SfB building element headings will be completed in about a year. The series will give every architect the essential skeleton for his own personal library.

Our aim is simple, but the detailed implementation of it is extremely complex. It is because of this that we have already asked for help from a number of busy offices. This invitation we now extend to any architect who can help make this venture a success.

LETTERS

" Oxfordian "

Hugh Morris and Associates

Kenneth Cooper, M.T.P.I.
County Planning Officer to Wiltshire County Council

John Morris, B.A., Ph.D.

Walter Segal

Housing Old People

SIR: Is the Ministry of Housing in touch with real life? I am thinking of its recommendations concerning more "flatlets" for old people.

Growing old is altogether quite a problem, and old people are faced with many a difficulty already, without having their sense of not belonging aggravated by the accommodation given to them. Transition from their existing environment into a new one needs to be sympathetic, and glaring differences in living conditions should be avoided if possible.

The new surroundings at least need to have the same feel and amenity about them as the old. If there are going to be differences, then let them be of improved, not reduced standards.

Who, considering the subject sympathetically, thinks that communal toilet facilities, shared by several residents, are an improvement? Do the residents like the idea? Has the Ministry carried out any surveys amongst old people themselves?

Communal facilities may perhaps suit the vigour of youth, in hostel and camp, but hardly the old, who throughout the years have become accustomed to other arrangements. Just imagine the morning procession of chamber pots down the corridor, not to mention the jolly medley of emptying tea-

The Ministry seems to be economising at the expense of desirability and convenience. "Flatlets" are, in essence, bed-sitters with kitchenette attached. Not only do the old people have to get rid of most of their belongings (a wrench, indeed, to part with those things one has collected and treasured over a lifetime), but they also must needs dine in the same place in which they live and sleep.

Again, have the needs of old people really been considered? The available research rather indicates that all this is what is NOT wanted. It is a pity that any research is needed at all in order to prove the point. Careful consideration of what one would oneself like and dislike when old should give sufficient data on the basic planning requirements involved.

The fact that the standard of toilet accommodation in "flatlets" is higher than that in most family dwellings, or that financial help may be given to tenants wishing to purchase new furniture, is of minor importance compared with the emotional well-being of the occupants. Does one finish up with a *home* in the happy, or the institutional, sense of the term?

"OXFORDIAN"

The Training for Technicians

SIR: The RIBA Annual General Meeting takes place at 6 p.m. on Tuesday, May 9. On page 9 of the annual report it is stated that "the ad hoc committee has, however, appointed a sub-committee to draw up at once a scheme of training for technicians so that no time shall be lost if the Council approves in principle the setting up of such a category."

We hesitate to criticise the Council for trying to get a move on, but we believe that the Council should take no decisions on this matter without consulting the members through a special general meeting after publishing their proposals in detail.

The economic, organisational and architectural implications are so great and so little understood that it would be disastrous if they were not discussed fully before any irrevocable action is taken.

We hope that others who share this view will attend the Annual General Meeting.

Signed:

HUGH MORRIS
ROBIN BUTTERELL
THURSTON WILLIAMS
HILARY CHAMBERS
JOHN SMITH
CHRIS MUSSON
ALAN DIPROSE

Training of Planners

SIR: The provision of adequate training facilities for junior staff, and particularly those entering the planning profession by way of the Indentured Pupil system, is a matter which has long exercised the minds of Planning Officers, and perhaps none more acutely than those whose areas are largely rural and remote from the larger centres of population with their greater facilities for study.

In areas such as Wiltshire, postal tuition has, of necessity, become the usual method of preparing for the examinations of the Town Planning Institute, but it is, I think, generally recognised that the subject of Design is one which cannot adequately be covered by this method and that more personal tuition and supervised studio work is desirable—if not indeed essential.

Those who, like myself, are faced with these difficulties may therefore be interested in a new venture in Wiltshire where, with the active support of the South-Western Branch of the Town Planning Institute, a one-week's residential course on Design is being held in September at the Wiltshire Residential College at Urchfort Manor, near Devizes.

The course will be an intensive one, combining lectures with a related programme of studio work. Inquiries for places have come from all parts of the South and South-West of the country and the interest has been so great that it has been decided to hold a further course in 1962.

It is believed that the course will serve a useful purpose in helping younger entrants to the planning profession and I shall be most pleased to send details to any of your readers who may be interested.

KENNETH COOPER

Trowbridge, Wilts.

Stevenage Architects

SIR: It is a pity that Astragal's kind words on the Stevenage Town Centre (March 30, 1961, which I unfortunately first read today) should be marred by an unkind insult to one of its chief authors.

The pedestrian centre was planned by Holliday and others soon after the war, but scrapped by the then Development Corporation in 1953, as allegedly uneconomic. It was rescued by the protests of the early residents, backed and encouraged by the architects who had worked on it and believed in it.

The Development Corporation has gracefully acknowledged the fact in various official documents; for example, "the people of Stevenage played a big part in insisting . . . that the shopping centre should be for pedestrians only" (Official Programme of the Queen's Visit, 1959); and the whole affair is well documented in the local press.

As a person responsible for convening the citizens' meeting, and as a member of the delegations that waited upon the Ministry and the Corporation, I feel bound to put on record that our public effort could not have prevailed without the courageous and unceasing endeavours of the then chief architect, Donald Reay, whose baby the threatened centre was.

Yet your columnist depreciates Reay as the "never-mind-who," whom Leonard Vincent replaced, when he left for the States, after seeing the Town Centre through its final approval.

This discourtesy has provoked irritated comment among those concerned with the birth pangs of the pedestrian centre, and must be embarrassing to all who know the facts, not least to Vincent, who, as Deputy, was then engaged on other matters, and played no part in our protest.

For there is surely no need to import personalities into the business; the town centre is the achievement of many men, an encouraging example of fruitful co-operation between architects and public.

JOHN MORRIS formerly President, Stevenage Residents' Association

Stevenage

St. Anne's College

SIR: Your publication of the designs for St. Anne's College, Oxford, stirs memories of French in-between architects, Djo Bourgeois, Charles Siclis and Pol Abraham, Is here, one wonders, reading eulogies which appeared elsewhere, a new field for exploration by the architectural connoisseurs of the 1960s?

WALTER SEGAL

London, N.6

NEWS

RIBA

Revision of the Bye-Laws

The objections we anticipated in our leader two weeks ago were in fact raised at the special general meeting of the RIBA convened to consider the Council's proposed revisions to the bye-laws. Cleeve Barr, chairman of the Constitutional Committee responsible for the changes, was on the platform and expressed surprise that there should be objections from the floor, since the revisions had been well known for some time, particularly when the final report of this work was published last July in the RIBAJ. The major job of this committee was, of course, to reconstitute the RIBA Council on more democratic lines, whilst tidying up the rest of the bye-laws where they were out of date or revealed minor weaknesses. There is no doubt that the Barr committee have on the whole done a most excellent job, but the very purpose of the meeting was surely to allow members to comment and suggest further amendments to the proposed bye-laws in final draft form, the one proper occasion on which this could be done.

When J. M. Austin-Smith launched out at the fact that the AA were no longer to have a representative, and that the London area had been left out from the regional elections, it was pointed out by the Secretariat through Herbert Jackson in the chair that the meeting could only consider and vote on any motion which was in the form of a precisely worded amendment to the draft bye-laws. To have an AA representative on the Council did not affect just one but several of the proposed new bye-laws. J. M. Austin-Smith was thus faced with an impossible job in trying to frame a motion, and he had to withdraw.

At the same time, however, this point of order raised by the Secretariat was a bad tactical move, because later in the proceedings Guy Oddie was able to point out certain inconsistencies about the rules covering general and special general meetings which obviously had to be put right one way or another, and although the secretariat and the members present struggled valiantly for nearly an hour with the wording, gradually involving more and more clauses, in the end it had to be accepted that the secretariat would do their best after the meeting to put the matter right whilst expressing the intention of members present. In a word, Oddie scored a bye. He also protested strongly about the fact that London would be excluded from the regional elections, and would, therefore, only have one vote. Cleeve Barr said that it was inaccurate to say that the three to four thousand members living and working in London and Middlesex would have only one vote (and he chided the AJ for saying so on April 20); under the new bye-laws metropolitan members would have 33 votes every three years, in comparison with 34 for the rest of the country. This is, of course

true, but takes no account of the fact that the national elections are on a plural vote, whilst the regional elections are on a straight constituency single vote. Thus metropolitan members will be excluded from the election of 28 regional members, nearly half the elected seats on the council

Jeremy Mackay-Lewis requested that there should be some form of student representation on the Council, which was right and proper since there were 5,000 odd students paving annual subscriptions. Gordon Ricketts said that students could not be permitted under the Charter, but this Mackay-Lewis disputed.

Cleeve Barr pointed out, when it was asked why only Fellows were eligible for office as Honorary Secretary, that although this was one of the things the Constitutional Committee would have liked to scrap, it was one of several matters prescribed by the Charter, within which the revision had to be drafted.

Subject to various other minor amendments, including stepping up the notice for special general meetings from seven to 14 days. and the quorum at meetings from 20 to 50, the proposed revisions were then adopted. They now remain to be confirmed, as required by the Charter, at a further general meeting on May 2 before being placed before the Privy Council for approval.

JOINT EDUCATION

Conference at Cambridge

The need for joint education in the building industry was pinpointed in a resolution agreed unanimously by the 75 delegates attending a one-day conference on joint education held in Cambridge on April 21 under the auspices of the Eastern Counties Joint Consultative Board of Architects. Quantity Surveyors and Builders.
"This conference," the resolution said,

"having considered the present system of training architects, quantity surveyors and builders, is convinced of the desirability of some measure of joint education as a means to a more efficient and effective building industry.

"Believing that some knowledge and appreciation of the techniques and problems of the other members of the building team will lead to an increase in all-round efficiency. the Conference urges the National Joint Consultative Committee to consider as a matter of urgency at what stage of training and to what extent joint education can be introduced, if necessary initially on an experimental basis."

Technical-technological training alone could not make an architect, either in the medium rank of "client satisfier" or one of "the starry few who break new spatial ground," said Dr. Denis Harper, Professor of Building. University of Manchester, presenting a paper on Architectural Education.

The deficiencies of architectural education as they affected joint education were a general limitation of technical background; a lack of contact with the industry as a whole; and a wish to create significant architecture without first a quest for sound building.

The so-called "package deal," whose growth showed that the public was ready to grasp at anything that promised a fixed price and a firm date, demonstrated the need for closer co-operation and therefore of joint education, said Ian M. Leslie, editor of The Builder.

Before starting on architectural problems. students of architecture should first of all be taught the use of materials, said J. E. L. Caldwell, president of the Hertfordshire Chapter of Essex, Cambs and Herts Society of Architects, opening the general discus-

RFAC AT BRISTOL

Wine Street Campaign Continues

The Royal Fine Art Commission has asked the Bristol Town Clerk to arrange a meeting between representatives of the Corporation and the RFAC to discuss the plans of projected buildings by Norwich Union and the Bank of England in the Wine Street Central area, and the future of the area as a whole.

The refusal last month of the Minister of Housing to intervene to prevent these piecemeal developments of what many local people considered should be a comprehensive development area in the heart of the city, looked at first like the end of the long campaign waged by Bristol Civic Society, Bristol Architects Forum and others (reported in AJ, February 9 and March 9). Bristol City Council rejected a petition for reconsideration, organised by these bodies and signed by 11,500 people; then the Minister refused to intervene. Building was expected to begin early this month: it was too late, it seemed, for anyone in authority to call a halt.

At this point, however, the RFAC took up the matter, by requesting Norwich Union and the Bank of England to let them see their plans for the Wine Street projects, and as a result of doing so has written to the Town Clerk to ask for a meeting.

"Bristol is a city of great distinction, with many important buildings surviving from the past and an individual character which is seldom found in this country." the letter points out. "In the opinion of the Commission the redevelopment of this particular area provides an opportunity for a comprehensive scheme that by the quality of its layout and its fine architecture could make a worthy addition to the

"The Commission is not satisfied on the information presented to it, including the design of buildings for the Bank of England and the Norwich Union Insurance Society . . . that advantage is being taken of the opportunity."

Copies of the letter have been sent to MOHLG, the Bank of England, the Norwich Insurance Society, the RIBA, and the Bristol Civic Society.

DURHAM UNIVERSITY

Symposium on Urban Survival and Traffic

The Department of Civil Engineering at Durham University was responsible for organising this most timely and valuable symposium at Newcastle last month. The key to the four days' discussion is given in the following extract from a statement read out at the last session by Colin Buchanan, and signed by himself and the five other architects to took part (D. Rigby Childs, G. C. Logie, Gordon Michell, L. J. Morton and Professor J. H. Napper) which said:—

"In our view it is not only possible but absolutely essential to set out the qualities that urban areas should possess if they are to be suitable for civilised living. They will be qualities relating to scale, convenience, economy, safety and environmental character. To secure these qualities AND to make best use of motor transport is the crucial problem.

"Unless thought is concentrated on this issue there seems to be a great danger that measures conceived solely to improve the movement of vehicular traffic will in the end render towns less rather than more habitable, and the consequences of this for an essentially urban nation would be incalculable."

Although there were so few architects taking part, those that did made notable contributions to the problem. Colin Buchanan emphasised that "in an urban area, if you disregard through traffic, the vehicular movements are wholly related to the buildings"; and that "it is ludicrous to try to keep the planning of the roads and the planning of the buildings in separate compartments; you might as well hand over the rooms of a house to one designer and the passages and staircases to another.

"I think," Buchanan went on, "that there is a very close analogy here . . . I submit that there is no essential difference between planning the accommodation of a building with all the circulation problems involved, and planning the accommodation of an urban area with all the circulation problems of vehicles and pedestrians. In both cases there is a design problem of disposing occupiable space in relation to means of access. If designing a house or hospital be defined as a problem in architectural design, so. I submit, must designing an urban area be basically a problem in architectural design.

"I would not, however, wish for one moment to convey the impression that I regard the design of an urban area as exclusively a job for the architectural profession. It so happens, I admit, that I think architects, by virtue of the thorough grounding they get all through their training and subsequently in circulation planning, could probably make a much more forceful contribution to urban planning than perhaps they themselves realise, but I was not concerned with professional claims at all.

"All I want to demonstrate is the absolute

oneness of traffic planning and building planning, and that in its essentials it is architectural design on a big scale-so big in fact that there is room and need for all the constructional professions to collaborate. "I am encouraged in this view when I think of the work that has been done in this country since the war. Where we have, in the traditional manner, entrusted streets to one profession and buildings to another (as in much of the blitzed city reconstruction) the results have not been impressive. Where (as for example at Stevenage and still more so at Cumbernauld) we have adopted the comprehensive architectural approach then a real advance is apparent in the handling of motor traffic.

"The key subject for the future will be the art or science of arranging buildings for efficient circulation and good environment. I call this, for short, Traffic Architecture." Mr. Gordon Michell, speaking on the last day of the symposium, discussed the question which he complained had been left undiscussed and certainly unanswered: "What kind of city do we want?" Our city streets were, he urged, "a disgrace to a supposedly civilised and cultured nation." One of the most important things was to realise the essential difference between a road and a street. Roads should be designed to enable vehicular traffic to flow as smoothly as possible, uninterrupted by pedestrians. Streets should be designed for a pedestrian scale of 2 m.p.h."

We should not be afraid of planning for people to walk. "Provide reasonable, safe, quiet and changing conditions and people WILL walk. Strangely enough the Americans have proved this in the better of their Regional Shopping Centres where, although surrounded by 10,000 parked cars, conditions have been created of extreme pedestrian peace and a civilised environment unknown in the downtown areas of their cities. "We cannot permit similar centres here owing to acute shortage of space, but there is nothing to stop us planning to provide just such conditions in our own downtown areas."

Michell referred to schemes for urban renewal in the biggest US cities. "I say with great conviction," he added, "that the drift back to the town and city is on. It is on because it is in the cities that people find they have the requisites of life, the immediacy, the variety, the infinite choice, the stimulation of company, the interchange of ideas. The future life of the city depends on its having a first-rate communications structure."

A number of American experts submitted papers to the symposium in which the interaction between traffic facilities and land uses was discussed, among which Dr. J. D. Carroll, Director of the Chicago Area Transportation Study (the most elaborate traffic study ever), submitted "that the premise offered by many of our planners—that land uses are planned and then transportation facilities are adjusted to help to bring the land uses about—may be profitably turned over. Instead, consider how and why people move—how the emergent transport technology appears—and then devise ways to compatibly develop and use land

so that adaptation is made to the new transportation technology in the fashion best calculated to be in the public interest.

"It is the job of the professional, I believe, to watch for and to accept innovation and change. This is particularly true of the planner, for it is from the pressures for adaptation brought on by technological change that he may find his greatest assistance in reshaping the urban shell towards a more humanly satisfactory environment. When planners look backward to the organisation and simplicity of the medieval town, or to the city of their fathers, they are violating their professional posture: eyes

A similar line was taken by Professor Schlums, who referred to the proposal of P. Friedrich that land uses should be so arranged within a metropolitan region that roughly equal loading of traffic facilities is achieved.

forward."

Spreading the traffic load evenly in metropolitan areas was advocated by Gordon Logie, of the LCC architect's department. "As I see it," he said, "the only possible way of finally solving the problem is to spread the load away from the centre. One way that has been suggested is by a policy of nucleation, by which I mean encouraging existing and future suburban centres to grow into small satellites of the central area.

"These centres would have large parking areas directly connected with high-capacity roads; they would have new type shopping centres with a complete range of supermarkets, fairly large office populations, flats at fairly high densities, restaurants, cinemas and theatres and possibly some light industry."

Logic suggested that nucleation "might not only go a long way to solving our traffic problems if we designed for it a road network and added to our public transport facilities in a big way as well; it might also make Central London the pleasant, unhurried place it once was, and in addition give us numerous examples of a new kind of pedestrian central area."

Logie's proposed policy is probably on the right lines—except that he perhaps proposes to put too much into his proposed "centres." If all the land uses he proposed were combined within one area, this area would have to be rather larger than could practicably be embraced within one pedestrian precinct. Ian Nairn, in a talk on "The size of pedestrian precincts," suggested that pure pedestrian precincts ought not to be more than about 500 yards across, although he also spoke of what might be called "impure precincts," in which a small amount of motor traffic would be allowed to circulate, which could presumably be larger.

A smaller type of pedestrian shopping precinct, such as that now proposed for Stanmore, was described in outline by Lord Chorley at the conference of The Pedestrians' Association, on such precincts and called for by the Association in their "Pedestrian's Bill of Rights"—which also advocates the raising of footways 17 feet above the roadway in some very congested urban areas.

NIGEL SEYMER

PAYING FOR SPRAWL

Report from New South Wales

If Sydney is any guide to other cities in the world, continued urban sprawl is far more expensive than greater concentration at higher densities. This is the conclusion reached in a report—"Economics of Urban Expansion"—recently produced by the Cumberland County Council in New South Wales.

It is based on consideration of all the costs involved in three solutions to the possible expansion of Sydney.

Case A assumes the expansion of its area at the present rate for the next 20 years for a population increase of 700,000 and would require an additional 56,000 acres of land.

Case B assumes a similar expansion of the area together with a greater provision for future development after 20 years and requires an additional 97,000 acres of land.

Case C assumes no further outward expansion and proposes that the additional 700,000 people should be housed by intensified land use of the existing area, including redevelopment of inner suburbs at higher densities.

By careful computation of the "hidden costs" of additional utility services—roads, sewers, water, gas, electricity, telephones, etc., as well as additional costs for road transport, the total increased annual charges needed for both initial construction and for maintenance and operation have been arrived at.

By 1978 these increased annual charges in the three cases are estimated as:

Case A-£35,020,000.

Case B-£54.420.000.

Case C-£8,350,000.

The conclusion is drawn that "the greater the compactness in development the greater economic advantages to the community as a whole and to its individual members."

The report then makes due allowance for the increased building costs to be expected in Case C from higher density development, which includes terrace houses and multistorey flats, up to 130 persons to the acre. This results in the annual charges for Case C increasing a further £8,030,000 by 1978, which makes the total annual charges:

Case A—£35.020.000.

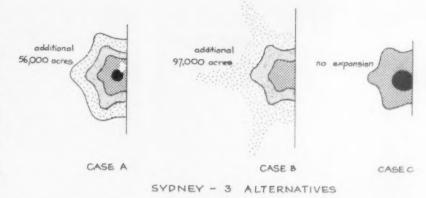
Case B-£54,420,000.

Case C-£16,380,000.

Thus the extreme case of expansion—Case B—would cost three times the higher density proposals, while the case for further expansion—Case A—would double the total annual cost of accommodating an additional 700,000 people within the existing area of Sydney.

The low density "lobby" in Britain has always made great play of the relatively high cost of building multi-storey flats as opposed to two-storey cottage development. It is said that the cost of flats is about double that for two-storey houses.

Several years ago, in a detailed study of high-density housing in Europe, R. A. Jensen (now Professor of Architecture at



Adelaide University) showed how exaggerated was this claim. He produced detailed costs of continental examples to show how little difference there need be in practice between the building cost of flats and houses.

But this is only half of the story. If the "hidden costs" which have to be paid for by the community—public utilities, services, transport, etc.—are all included the economic case against urban sprawl may well be a great deal sounder than is generally realised.

These studies of Sydney have to be related to their context which includes much lower urban densities than are to be found in British cities. Therefore, it would be foolish to infer that a cost comparison would be anything like so overwhelmingly favourable to higher density as this study of Australia's largest city shows so convincingly.

Nevertheless, the studies do point to the urgent need for comparable studies in Britain

A.G.

FBI

Report on Nigeria

More locally-based architects, civil and mechanical engineers and quantity surveyors would help to advance Nigeria's already well-established building and construction industry say the Federation of British Industries delegation who attended the Industrial Development Conference in Lagos last January, in a Report just published. They make no mention, however, of the evidently urgent need for planners.

Their report reproaches expatriate consultants, not resident in Nigeria, for tending to put forward proposals which are "too costly in relation to local circumstances in a developing country."

The delegation told the Nigerian authorities that it would pay them to aim for construction programmes of three to five years in the public sector, with long-term maintenance contracts for road and building repairs. They advocate concentration on standard specifications and an extension of the "mere three to four weeks tendering time which is currently called for, and which is very costly to comply with."

Cement, pre-cast cement products, builders' hardware, furniture and domestic joinery

are among the building materials whose production, it is recommended, should be established or expanded in the country.

MOHLG

A National Water Plan?

The Central Advisory Water Committee is making a special study of Britain's water resources and needs for the Ministry of Housing and Local Government and is expected to report in the next few months. Mr. Henry Brooke gave this news to a Birmingham Corporation dinner last week, to mark the completion of the new water supply project which supplies the city with water from the Elan Valley in North Wales.

"Never has the long view in water supply been more imperative than it is today," said Mr. Brooke, "with domestic and industrial demand rising dramatically and competition for the use of available water resources becoming ever more keen."

Nothing short of a plan for the river basin as a whole would serve, in the case of great rivers like the Severn, for example, where a working party is now organising a hydrological survey and planning "how best the water resources of the Severn can be developed so that the most good can accrue to everybody." Another report is being drafted on Wales's water supplies.

"We are passing from the era of control over applications to take water—control in the negative sense," said Mr. Brooke, "to the new era of positive measures to conserve water."

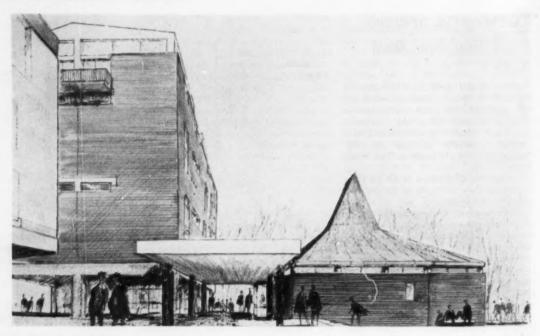
DIABY

Building at the Zoo: Sir Hugh Casson and Peter Shepheard, the Meeting Hall, Zoological Gardens, Regent's Park. 6.15. Tickets only, from the J.L.C. of the Joint Advisory Committee on Training in the Building Industry.

MAY 4

Pestalozzi Children's Village Trust: Exhibition of drawings and models at the Building Centre.

MAY 8 to MAY 13 .



University of Cambridge: lecture halls, Sidgwick Avenue; Sir Hugh Casson, Neville Conder & Partners

The Royal Academy

This year more sharply than ever because of the diversity of the entries, the architectural room at the Royal Academy reflects the inconsistencies on which this part of the exhibition is based. Even though it says in the conditions that preference will be given to "Geometrical Drawings not exceeding 1-in. scale," the overwhelming bulk of the work on show is in the form of perspectives, and this leads to the inevitable question as to whether it is really an architectural exhibition, or one concentrating on the skill of the perspective draughtsman. In the room there are, of course, a small minority of these perspectives which have actually been prepared by the architect or group of architects who have designed the particular building illustrated. In these cases there is always a chance that the perspective can become the means of expressing some strictly architectural idea. You can even imagine that such drawings might relate to the building with some of that clarity of intention, and the excitement of seeing an idea actually being worked out on paper as you get, say, from Picasso's Guernica sketches, or even the doodles in da Vinci's notebook. One can't remember any such architectural drawings at the Academy in recent years, but some may turn up one day. In the meantime, there remains some merit of a limited order in the perspective that the architect himself has prepared.

But the vast majority of these perspectives have been prepared by a handful of artists specialising in this work and however much one may admire their technique, the drawings no longer function as the means of communicating architectural ideas. All you seem to be left with is the chance to compare techniques of presentation. By and large, therefore, the architecture room becomes more than ever this year a little corner in the RA for the display of a specialised, superficial and inevitably rather dull form of applied art. A close parallel one can think of is the railway posters for coastal resorts, each featuring a bulbous and underclad female, but little of relevance about merits of the individual town being advertised.

There are always the models, of course, and, as usual, one or two of them have been most beautifully prepared. Certainly here you are getting a little closer to the truth, but the same argument of technique getting in the way applies to a lesser degree. If they really were by-products of design, models that architects had actually found essential to make as part of the process of design, even if the presentation were extremely crude, how much more informative and relevant these exhibits would be. But here again, the majority are produced by independent specialists at the job.

If the RA wants to stick to its traditional positional about the architectural section, it should at least consider changing its terms of reference so as to encourage drawings and models that architects have prepared as an essential part of the design process however crude, and limit or exclude all these pieces of specialised, often slick presentation. Could not the RA, if it were not too shattering in its effect on the rest of the exhibition, also take note of the fact that the camera has now been invented, and permit the inclusion of photographs of recently completed buildings? We all know how the camera can exaggerate and distort but, despite this, it would be a big step towards reality.



University of Swansea: Men's Hall of Residence No. 1; Sir Percy Thomas & Son; Partner in charge, Norman Thomas; associate partners, Dale Owen and I. L. James. (Model by Hunting Surveys Ltd.)

Royal College of Art, New Premises; Sir Hugh Casson, H. T. Cadbury-Brown and R. Y. Goodden (drawn by Sir Hugh Casson)





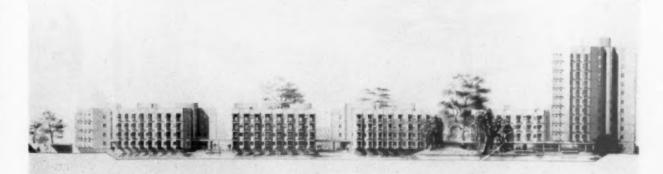


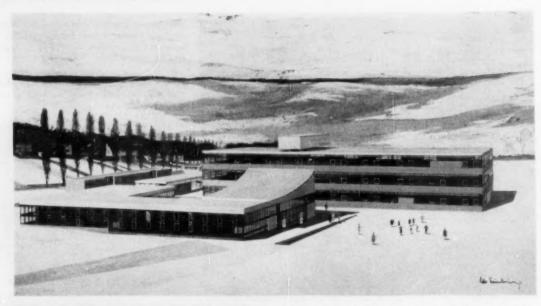
Halls of Residence, Fourah Bay College, University College of Sierra Leone; Frank M. Rutter (drawn by Edmund J. Thring)

Universities and Colleges

Furzedown Teachers' Training College, Wandsworth; Leonard Manasseh & Partners. (Model by Charles Houthueson and Patrick Wakely)

St. Anne's College, Oxford; Howell, Killick & Partridge







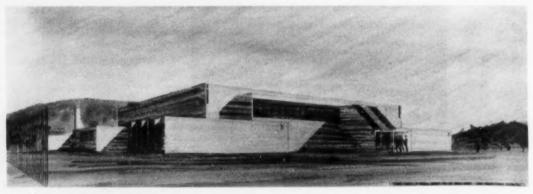
Longfield Secondary School; Elie Mayorcas in collaboration with E. T. Ashley Smith, Kent County Architect (drawn by Peter Sainsbury)

Schools, Youth Centre

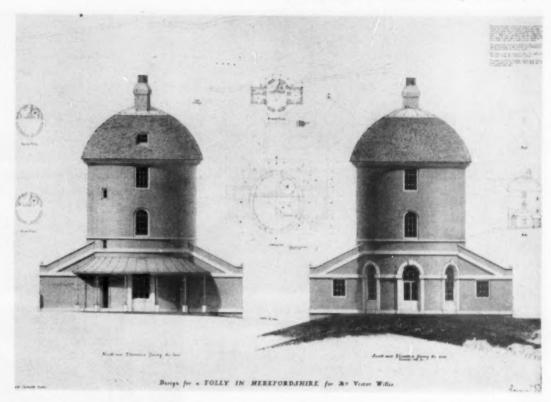
Ashmore Park Youth Centre for Staffordshire County Council; Norman & Dawbarn. (Model by T. Hackett)

Closed School at Redhill, Surrey, for the Home Office; John Wright, below

Pestalozzi Children's Village: the Meeting House; Sir Hugh Casson, Neville Conder & Partners, bottom











Folly in Herefordshire; Raymond Erith, top

Proposed shopping centre, Twickenham; Sir Albert E. Richardson, above

Housing

Development at Wellington Hill, Leeds; J. R. Sheridan-Shedden (drawn by Frank Weemys), left

Housing at Edgecombe Hall, Wandsworth; Clifford Culpin & Partners (drawn by William Suddaby)





M2 Typical Overbridge; Clifford Tee & Gale, consulting architects, Freeman, Fox & Partners, consulting engineers (drawn by Frank Weemys)

Severn Bridge; Sir Percy Thomas & Son, consulting architects (drawn by Frank Buckley), right

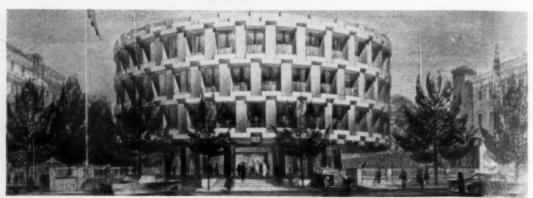


Government Projects



Crown Office and Post Office at Kirkby; Stanislaw Spielrein, MOW (drawn by William Suddaby), left

Embassy offices, Madrid; William S. Bryant, MOW (drawn by William Suddaby)





New Department Store, Sheffield; Yorke, Rosenberg & Mardall (drawn by Peter Sainsbury)

Commercial

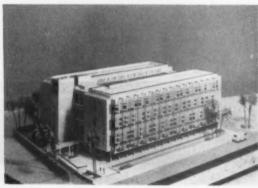
Proposed Hotel, Piccadilly Centre, Manchester; Covell and Matthews (drawn by A. E. H. Shearing), below

Gammon House, Bombay; new Headquarters of Gammon India (Private) Ltd.; Michael Lyell Associates (model by John Piper Ltd.), below right





Shops and offices, Rushey Green, Catford; H. Owen Luder (drawn by Peter Sainsbury), above





M2 Typical Overbridge; Clifford Tee & Gale, consulting architects, Freeman, Fox & Partners, consulting engineers (drawn by Frank Weemys)

Severn Bridge; Sir Percy Thomas & Son, consulting architects (drawn by Frank Buckley), right

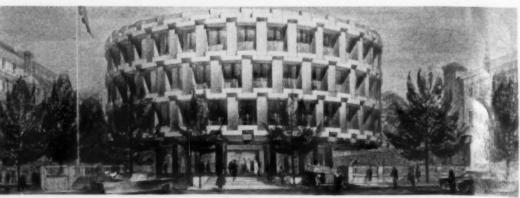


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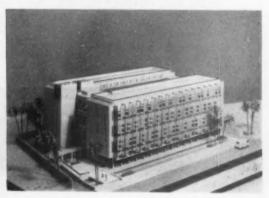
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Shops and offices, Rushey Green, Catford; H. Owen Luder (drawn by Peter Sainsbury), above



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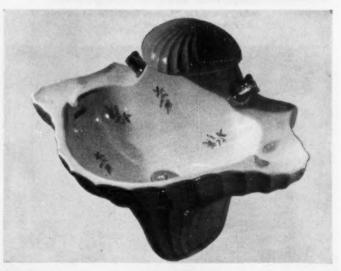
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THE INDUSTRY

This week Brian Grant describes standardised furniture, ceiling heating, lecture theatre seats and portal frame buildings.

Standardised Furniture

The Vanson 21 range of furniture has been designed on a 21 in. module primarily because the makers believe it produces good proportions, and also because it allows existing building trade components to be incorporated. A further advantage is economy in raw materials, and this allows a few basic pieces to give good value for money, as repairs or alterations and additions can be made by adding standard components. So far bedroom and office furniture has been produced, but the range will in future extend throughout the house. The illustration shows a typical piece of office furniture, which is made with further units for filing, shelving and storage cupboards. Bedroom furniture can also incorporate mirrors and lavatory basins, and a number of different timbers are available. The whole range seems an intelligent piece of design which is reasonable in price and which architects can use to build into almost any required fitting. (Vanson Furniture Ltd., Park Royal Road, London, N.W.10.)

Electrical Heating

Triplan have evolved a system of electrical heating which can be applied to floors or ceilings. The heating elements are assembled on non-inflammable flexible formers, and ceilings are heated by laying the cables between joists over the plasterboard with mineral wool insulation directly above them. In existing buildings no structural work is involved and a complete installation can be carried out in about 48 hours at a cost of about 3s. to 3s. 6d. a square foot not including wiring up to the mains. Existing floors can be dealt with for about 50s. a square yard, including a thermoplastic tile finish. The manufacturers also produce Tri-lock acoustic ceilings, made from 12 gauge perforated sheet steel in panels 18 or 24 in. wide. Spans up to 12 ft, are possible without intermediate supports, costs, with electric heating, varying from 8s. to 10s. a square foot. When the heating is by hot water the cost is increased by a further 5s. a foot, or thereabouts. (Triplan Thermal Acoustics Ltd., Cromford House, Cromford Court, Manchester 4.)

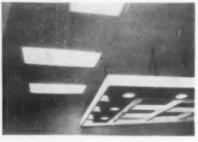


Lecture Theatre Seating

The illustration on the right shows tip-up seating in one of two lecture theatres at the Lanchester College of Technology, Coventry. The seating has been designed to give maximum strength so as to withstand heavy usage and at the same time provide a good depth of upholstery with an amply large tip-up seat. The frames are welded rectangular section tube finished in stove enamel, the timber used being veneered iroko upholstered in p.v.c. covered 3 in. thick latex. The seating is being marketed under the trade name of Salisbury. (Sintacel Ltd., 1 Salisbury Square, London, E.C.4.)

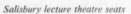
Buildings for Export

The new Arcon Portal buildings are intended mainly for overseas use where superimposed loading requirements do not exceed 6 lb./ sq. ft., though otherwise the steelwork is to BS 449. Designed wind loading is 72 m.p.h., or 100 m.p.h. if the buildings are to be used in hurricane areas. The advantage of the portal frame structure is that no tie members are needed across the building at eaves level, so that the clear internal height is uninterrupted except by the steelwork immediately beneath the roof



Triplan ceiling heating

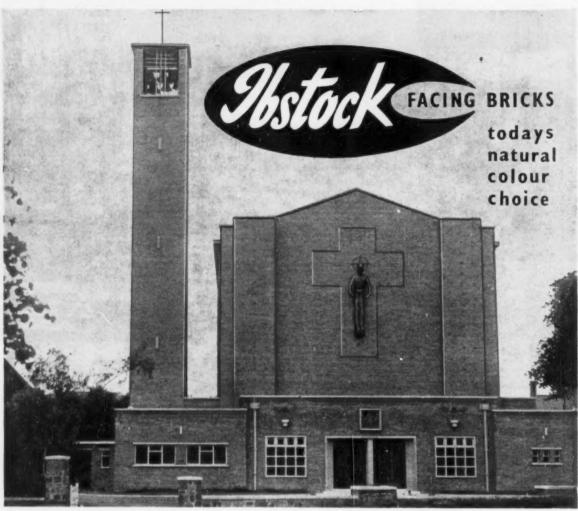
A Vanson office desk





slope. Standard spans vary from 33 ft. 4 in. to 66 ft. 8 in. by increments of 8 ft. 4 in., and there is also a choice of two eaves heights. Standard bay length is 16 ft. 8 in. Steelwork design allows spans to be erected side by side with only a single valley column, and the Z section purlins are secured to the top of the truss and braced diagonally down to the lower truss members to help take wind loads.

The buildings are supplied complete with asbestos cement or aluminium sheeting, and there is also an extensive range of doors and windows. Roof linings can be provided for fixing either over or under purlins. (Taylor Woodrow (Building Exports) Ltd., 41 Welbeck Street, London, W.1.)



Photograph by courtesy of Leicester Evening Mail

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technical section

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7. PRACTICE

check lists, 1: water supply installations

When the AJ commenced publication of check lists for working drawings, * the aim was to provide a means of assisting the architect in the process of presenting the necessary information to those concerned with erecting the building. At the time it was pointed out that these check lists were designed to be used with working drawings in what might be described as their traditional form. The reason for this was not that the Editors believe that this form of working drawing is the best, but that until a better system has been devised and accepted on a wide scale the check lists would have their broadest application if related to this traditional form. Already there is evidence of considerable reform in this field. In this article Peter Burberry explains a system of check lists he has devised which has the advantage of being applicable no matter what form the working drawings take. In fact, the author puts forward a case against the idea of using a check list merely to check a drawing. The first of his lists appears this week.

* October 15, 1959.

Lists of items normally covered in working drawings have an obvious use in checking the completeness of the information given. Many lists, including those published in the AJ, summarise the information in terms of particular drawings. All aspects of construction, finishes and services appropriate to a particular plan, section or elevation are itemised. In this way the lists also serve beforehand to guide the draughtsman in what information should be shown on each drawing.

This approach has its limitations. It tends to be retrospective in that even if the lists are used as a guide during the preparation of drawings the architect consults them after he has done his thinking out of the problem. He finishes designing and then he sets about preparing his drawings. If he is reasonably methodical he takes out his check lists and refers to them as the drawings are "worked up." If he is not very methodical he may not look at the lists until the drawings are finished and he merely checks that he has not forgotten anything. Admittedly there is seldom a clear cut division between the detailed designing and the preparation of the working drawings. But the point is that check lists of this type are limited in their usefulness to the drawings they are designed to check. They do not help him in the actual designing. Yet this is the very time-the thinking out of the problem in detail-that he is most likely to overlook something important.

Most efforts at reforming working drawings are based on the idea that no drawing should contain unnecessary information (unnecessary, that is, to the people using the drawing) and that the breakdown of drawings should be based on the stages of construction. This approach has the advantage that it is the way architects think when designing their buildings and it finds expression in—for example—the elemental bill and, more latterly, the SfB system of classification. A broad division of the elements of a building is: structure, carcass, finishes, services, fittings).

A check list system should be related to the elements of a building rather than to drawings (i.e. the plan, section or elevation) and this is the principle adopted in the series of lists, the first of which appears this week. In preparing these lists I have confined myself to date to services, and the series comprises:

Water supply, drainage and waste and soil plumbing

water supply installations drainage installations waste and soil plumbing installations gas installations electrical installations telephone installations.

technical section

ASPECT		ITEMS				CODES of PRACTIC
EXTERNALLY		Company's main	7			
	Communication pipe by supply					
	Company's stop vo	alve	company			
		Meter and cut-off valve				general
		Service pipe			model byelows series	
		Hydrants: fire				CP 310
		standpipe			CP 3 ch.VII pt.A	
		External draw-off	points			CP 99
NTERNALLY	Cold Water Supply	Service pipes	Pipework			
		Stopvalve				
		Isolating	volves			
			Emptying			
			Portable	draw-off po	oints	
			Water sof			
			Filters			
		Cisterns	Cold water	ar rupaly e	intern	
		S. C.		er supply c	ansion cistern	3
			Ball valve		and the state of t	
			Warning (
		Tray and				
		Distributing pipes:				
		Isolating v				
			Emptying			
			Non-porte	ible draw-c	off points	
	Hot Water Supply	Domestic boiler inst	tell ation			
		Domestic boiles into	Boiler	Pressure re	elief valve	CP 342
			22000	Emptying p		CP 403,101
					expansion vent.	CP 3 ch. VII pt. B
				(if indirect	system)	
			D.:			
			Primary	(a) To cylin	nder (no lv's)	
					iators and towel rail	
					nd circulating pump)	
				Vents if in	ndirect as required by system	
			Hat	culiadas (1)		
			or indirect)	cylinder (dir Cylinder Vent	eci, pareni	
					distribution pipes	
				HOI WOIST	Isolating valves	
					Emptying plugs	
					Hot water draw-off points	
				Immersion		
		Cas or electric thermal storage				
		or instantaneous		,		
		and associated p	hework			

Below and opposite are lists of items which may have to be included in various types of water supply installations

ASPECT		ITEMS	CODES of PRACT
BOOSTER PUMP	INSTALLATION : Float Operated :	Pumps and cut-off valves By-pass and non-return valve Float switches (in cistern or tank) Rising pipe to cistern	
	2	Portable draw-off points	
	Pressure Cylinder:	Cylinder: Pressure switch Pressure relief volve Compressor or air filter Drain pipe	
		Pumps and cut-off valves By pass and NRV. Rising pipe to cistern	
		Portable draw-off points	
FIRE :	Hose Reel Installation	Separate service pipe branch Main isolating valves Pipework serving hose reels: Isolating valves Emptying plugs Hose reels	CP 402 IOI (fire offices commi scale of allowance
		NOTE if the mains pressure is inadequate use a booster pump installation as above. (pressure cylinder system or special switch in lieu of float switch)	
	Sprinkler System:	Sources: Primary: Town main Elevated private reservoir pump from large source	CP 402 201 (Fire offices commit rules for automatic sprinkler installation
		Secondary Elevated cistern	
		Pressure tank: Air and water pump Drain	
		Equipment Back pressure valves (when secondary source is used in conjunction with town main) Main stop valve Location plate	Consult specialist
		Alarm valve, alarm and waste Air valve (when dry pipe system is used) Testing valves and wastes Distributing piping Sprinklers: Individual	
		Multiple set	

technical section

	DRA	WING	S	PECIFICATION or BILL	S of QUANTITY	RELATED	
TEMS (externally)	CONVENTION	ANNOTATIONS	SCHEDULE		British Standards	BUILDER'S WORK	NOTE
OWN MAIN	WM	dia material depth					
COMMUNICATION TIPE COMPANY'S TOPVALVE WATER METER	CSV WM	dia. material depth dia.		P.C. for Co.to carry out work	quard pipe 1185	Cover	v required as cut off valve so that meter may be isolated
SERVICE PIPE below ground)		dia depth		naterial class, weight or gauge yoints and fittings wrapping	Copper 1386 " fittings 864 Plastic 1972 Steel 1387 Lead 602,1085 Asb. Cem. 486 (2" min.) Cast Iron 78 (1½ min.) Spunkon 1211 (3" min.)	trench and backfill	
HYDRANTS FIRE	I FH	dia.		manufacturers reference	750	pit and cover	
PIPES SERVICE (above ground) DISTRIBUTING: cold hot CIRCULATING: flow return VENT WARNING FIRE hose reel instal, sprinkler instal,		dia of each		material quality weight, gauge, grade or class joints and fittings support wall sleeves & flanges falls insulation	LG Copper 659 " fittings 864 Plastic 1972 Steel 1387 Lead 602,603,1085 preformed insulation 1304	entry to building holes chases casings ducts	
CISTERNS: COLD WATER SUPPLY BOILER FEED & EXP.	C.W.C.	capacity (actual) (also ball valves, warning pipe, distributing pipe		material quality weight, gauge, grade or class nominal & actual capacity overflow tray if used	Galv Steel 417 Pressed Steel sections 1564 C1 sections 1563 Insulation 1304	support cover boxing insulation	if cisterns are coupled give details of coupling piper and valves
BALL VALVES	-0	dia. Type		float length of arm fixing height type a manufacturets reference if not BS	Ball Valves 1212 Floats copper 1986 plastic 2456		BRS type ball valve no covered by fi
VALVES: GLOBE (screwdown) GATE NON - RETURN PRESSURE RELIE	-₩-	dia		pattern material manufacturers reference	1010 1952 (sluice 2 min) 1218	for Lv3 below ground pit a cover or guard pipe a cover 8.5.1185	
TAPS & DRAW-OFF POINTS	1		details & dias. given in sanitary appliance sched		1010	boxing 6 insulation for external taps	
EMPTYING PLUCS	EP	dia		pattern manufacturers reference	Draining tops 2879		hose to or other point
MIXING VALVE	-	dia		pattern material & finish fixing manufacturers reference	1415		

	DRA	WING		SPECIFICATION or BI	RELATED		
ITEMS (externally)	CONVENTION	ANNOTATIONS	SCHEDULE	DETAILS	British Standards	BUILDER'S WORK	NOTE
HOT WATER APPLIANCES: HOT WATER CYL.	HWC	(also feed, distrib, vent, flow 6 return, pipes 6 immersion heater)		material: quality, gauge, grade or class capacity (nom.e act.) immersion hebter boss man, ref. for pat. cyls.	Copper direct 599 indirect 1566 Galv steel direct 417 indirect 1565 insulation 1304	boxing insulation	
DOMESTIC BOILER	rad no.	(also flow a return, pressure relief, flue)	make, type size, fixing	type size manufacture	758	boiler room or recess fuel store flues soot doors recess casing shelf	oil storage tank if required
TOWEL RAIL	T.R.		give details in rad schedule if used, or use specification	make type size fixing			
WATER TREATMENT:	W.FILTER			make type capacity connection dias.			
SOFTENER	W SOFT.			fixing make type capacity connection dias. fixing			complex types have salt containers a drain outlets
PUMPS:							
HAND	-Owhand	dia. type		make type dig.	Semi-rotary 1208		
WATER SUPPLY BOOSTER FIRE BOOSTER	- Ow boost	1		make type			
HEATING ACCELERATOR SUMP	Owhacc.	dia.		dia head flow electricity supply	Heat Acc 1394	pump base fixing	
PRESSURE CYLINDER	pressure cyl	capacity		P.C. for specialist		bases fixing	pressure gauge water gauge, back press, valve, S.V.
FIRE EXTINGUISHING HOSE REEL	(Hs R)	unit number	make type & nozzle dia. length of hose			recess a fizing	
SPRINKLERS	Sp	unit number		make type size temperature	C.L.pipe for sprinkler installations 1641		

Above and opposite is a check list to be used during the design of water supply installations and the preparation

of drawings, schedules, specifications and/or bills of quantities

installations on any but the bigger jobs are generally coped with by the architect, but whether he is designing the actual installation himself or uses the services of a consultant or specialist sub-contractor, the list will enable him to deal with the subject within the context of the building design as a whole. Each section of the list covers the essential features of a particular installation or operation. The lists do not specify in detail the information appropriate to any

particular drawing as they are concerned with the designing as distinct from presentation of information process. This arrangement does not preclude the lists being used to check the content of any drawing, but it does mean that they can be used equally effectively with any working drawing system.

There is no reason why this approach to check lists cannot be applied to the remaining elements of the building (i.e. structure, carcass, finishes, fittings).

technical section

			CONNEC	TIONS	DIA.		
FITTING	SYMBOL	BRITISH STANDARDS	нот	COLD	WASTE	NOTE	FIXING &
BATH	0	Cast iron 1189 Sheet steel 1390	3/4" pillar tap	3/4" pillar tap	1 ¹ /2 ["] or 2"	shower shower curtain handspray handrail steamless inlet	Adj. feet
BIDET	BDT		1/2"	1/2"	174	mixing valve	screw to floor
LAVATORY BASIN	pedestal PLB wall LB	Ceramic 118 8 Metal 132 9 Supports 1255	1/2" pillar tap	1/2" pillar tap	13/4"		pedestal cantilever brackets leg support lug for buildin
w.C.s.	high level low level	Pans 1213 Cistern 1125 Seat: plastic 1254 wood 2069 Ball valve 1212 Ball float 2456		1/2" BV		BRS ball valves not covered by British Standard	pan screw to floo cistern brackets plu to wall
SHOWER	rose &		1/2" mixing	1/2 valve		mixing valve and spray may require 10'-0" head	
SIN K	ceramic S	Fireclay 1206 Wash tubs 1229 D.B's. 1226 Metal 1244 Supports 1255	1/2 or 3/4 bib tap 1/2 pillor tap or bifli	1/2°or 3/4" bib top 1/2" pillar tap	11/4"	cold supply direct from main drainer for ceramic	bracket brackets
wash fountain	0		3/4" mixing	3/4" valve	11/2"	mixing valve and umbrella spray may require 10'-0" head	
SLOP HOPPER	SH	Cistern 1125 Ball valve 1212 Float 2456		1/2" B.V.			screw to floor W.W.P.: bracke or plug to wo
URINAL	wall 5	Auto flush 1876		√2″ to drip cock		auto flush: Igall. per stall	auto flush brac
DRINKING FOUNTAIN	wall			1/2"		direct from main	plug to wall

A sample form of schedule for sanitary appliances suggested by the author

		T					
	NOTES AND REVISIONS	JOB NAME	SANITARY APPLIANCE SCHEDULE SHEET NO.	LOCATION DRAWING NO. ARCHITECT			
	ACCESORIES						
	PANEL OR CASING						
	SEAT OR COVER						
	WARNING OVERFLOW VENT OR SPARCE						
	TRAP			W. r. s. 300 Je			
	WASTE OR FLUSH						
	WATER SUPPLY						
	SUPPORT E FIXING						
	MAN. REF.						
	SIZE						
	DESCRIPTION						
HEDULE	MATERIAL						
NCE SCH	-			**************************************			
SANITARY APPLIANCE SCHEDULE	APPLIANCE PART						
SANIT	ROOM						

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Monthly supplement





RIBA COUNCIL ELECTIONS

Jeremy Mackay-Lewis

One of the most interesting names on the list of candidates for the RIBA Council election is that of *Jeremy Mackay-Lewis*, co-founder and expresident of BASA.

It is important that he should be elected to the Council to represent the views of the younger members of the profession. In the present Council virtually all members are principals and partners in private practice; there is little representation for the salaried architect—who, in fact, constitutes the bulk of the profession.

Jeremy Mackay-Lewis received his formal training at the Liverpool University School of Architecture (1953-8), where he was president of the Architectural Society in 1955. During his final year he joined Hilary Chambers in founding BASA, becoming president in 1958 and being re-elected the following year.

His activities have remained wide and he now serves on both the Social and the Junior Liaison Committees of the RIBA; the latter, bringing together representatives of architects, surveyors and builders, could be of vast importance in achieving a more integrated building industry.

As a salaried architect with Robert Matthew and Johnson-Marshall he has been job-architect for a 1,000-place secondary school in Edinburgh and is now in charge of two further schools and an old people's home, all carried out as CLASP construction.

In 1959 he spent a highly instructive and exotic six months in the Caribbean.

EDITORIAL

It is extraordinary that the RIBA should consider educating a "second tier" before the problem of educating the architect has been solved. Even assuming that some form of "second tier" is necessary, surely it should be part of an overall framework for architectural education. Yet the RIBA has appointed a committee who are now dreaming up a syllabus for a "second tier" before the RIBA office survey team has shown that such a grade of assistant is even necessary.

Everyone seems to have their own pet concept of what the "two tier" idea means, ranging from the hack draughtsmen making the "master's" 6b sketches work (a hangover of 19th-century attitudes to design), to some form of technologist. This fact alone indicated that we must be very certain of our ground before making any decisions on educating a "second tier."

The only way of effectively raising our standard of architecture is through educational reform, reform that is founded on the realities facing the profession in the 20th century. It is a vital priority to which the RIBA should be devoting a great deal of time and research. At present the pace is too slow, the men concerned with education at the RIBA are far too busy and cannot solve the problems quickly. It is essential, therefore, that younger men should be elected to the RIBA Council, men who are not over-committed, and who can devote the time essential to the achievement of immediate basic solution to these educational problems and the many others facing the profession.

HC

Invited to design a house for Lady Noble in Jamaica, he flew over to look at the site and subsequently produced sketch designs for a house for Elizabeth Taylor, as well as designing a week-end house for Prince Obolenski in Mexico. Interviewed by BASA, Mackay-Lewis revealed that his main preoccupations would be architectural education, and the "two-tiered" profession.

On education he says: "This is one of the most vital of immediate problems facing the RIBA. The present system of architectural education is dangerously misdirected and is the root cause of inadequate thinking and expression in our architecture today. Students are guided into a number of misconceptions on architecture from which a large number never escape. The simple statement that, 'To build, the architect must have a client,' is neither taught nor understood. In how many student schemes is there a real client whom the student must satisfy?

"The impetus for architecture must spring from an understanding of human needs, and modern technology is the only means of achieving satisfactory answers to these needs. Yet the student is allowed, and even encouraged, to build 'castles in the air,' a habit which he finds tiresomely difficult to break when he enters office practice.

"An architect's mind must be trained to be imaginative, yet at the same time logical; this combination is essential to his success as a designer.

"The architect today has got to use his brain as never before in history, and without being taught the basic process of analysis and synthesis he cannot hope to grapple with the problems which confront him. His influence is great, and his responsibility for the environment which he creates, enormous. He must be trained for this heavy responsibility in the best possible way. A course of education should be balanced in relation to the tasks which he is to meet in the outside world, and the development of his personality should be such that he gives confidence to all those with whom he has to deal.

"We can pin-point three common defects in the average architect, all of which stem directly from educational shortcomings. "Firstly, he is reluctant to master and apply scientific theory to solve 20th-century problems. So often when faced with a problem outside his past experience, he resorts to the purest empiricism. "Secondly, he approaches his problems with an insufficiently critical and enquiring mind. The architect, the great creator, the organiser, the technologist, the balanced man, is in fact just as incapable of thinking clearly and analysing and synthesising problems logically as any other university graduate today. "Thirdly, most architects cannot write intelligible English.

"These three common defects add up to a single basic deficiency—THE LACK OF AN ACADEMIC APPROACH.
"To put it bluntly, architectural students have to spend so much of their time on the drawing board that serious intellectual effort seems out of place. The student is more concerned with the development of manipulative rather than conceptual skill.

"This in turn is the result of confusion

in the university between educative and training functions."

Turning to the much vexed problem of the proposed "two tier" profession: "I am concerned that the salaried architect, who in fact makes up 75 per cent of the profession, is not adequately represented on Council. The issue of the 'two-tier' profession cannot be ignored by the salaried architect, since from his own point of view any decision in this direction is likely to have considerable personal and economic effects. "The solution of this problem is a fundamental issue and a decision should not be taken quickly by Council. There is far too much confusion clouding the issue; it would be fatal to create a special status for the draughtsmen simply because they exist in the present system.

"Such men may well be essential to some practices in the country, but before creating a permanent position for the 'second tier' we should decide whether the modern architectural office really needs them or whether they are in fact a hang-over from the past. In this respect it is pointless to proceed until the report of the RIBA Office Survey Team is received.

"This fundamental issue is the foundation stone of architectural education. My connection with BASA has made me vitally interested in education; I am therefore all the more keen to sit on the RIBA Council, since it is the Council which ultimately controls education. In such a position I could help solve educational problems, and also put forward the views of the younger Members on architectural reform."

On the strength of these opinions alone we urge all young architects to support Jeremy Mackay-Lewis in the coming election; as students still in first-hand contact with the present inadequate educational system, we wish him every success.

DEVELOPMENT/GROUP WORK

The recent meeting held at the RIBA to discuss the "Purpose of Organisation of Development Groups" proved a disappointment to the uninitiated, particularly those who wished to discover the purpose, although they may have left with a somewhat better idea of the organisational problems involved. Perhaps the most significant contribution to modern architecture in this country has been achieved through the work of development groups; yet schools of architecture and the profession as a whole have been slow to learn from this experience.

At the heart of development work lies the precise establishment of user requirements, followed by the solving of the technical problems involved in meeting these requirements within the limits of the funds available. In establishing these precise requirements by working with the user an architectural solution is made possible which will not be an imposition.

Much of the failure of modern architecture has occurred because architects do not find the inspiration for their architectural solutions in the user's needs. This in turn stems from educational defects, since design projects in schools of architecture are set almost entirely without providing an adequate client, in spite of the fact that an architectural problem cannot exist without one.

If the encouraging trend towards the setting up of research departments in schools of architecture continues, the number of such groups, and hence the demand for suitable staff, will be greatly increased. In addition, the problem of publication and dissemination of findings will become increasingly more complex and urgent.

Research without publication is no research at all, and publication which does not reach the general body of architects is of equally little value. Here, surely, is a vital task for the RIBA, the cataloguing of research papers and the regular notification to architects throughout the country of all relevant sources of information—perhaps in an appendix to the RIBA Journal.

It is equally important that the right men be drawn into research, not only by providing good salaries and opportunities, but also by intensive publicity in the schools of architecture. Students and lecturers must be kept in touch with current programmes of development work; regular visits by members of existing groups would bring home the realities of user requirement research to students and ensure a regular flow of suitable talent for an increasing research programme.

LETTER

Villa Savoie

SIR: I have just returned from a visit to Paris during which I naturally made a pilgrimage to Villa Savoic.

I had heard about its present tragic state, standing in abandoned, isolated dignity in the midst of a cabbage patch. But I discovered that this was not all. It is suffering an army of occupation—an army of teenagers who use the house as their club.

Garage doors bear crude chalk drawings. The interior has a garish colour scheme and walls are covered with posters. A "coke" machine clogs the "space" beneath a staircase, and a juke box and jiving teenagers destroy another "space."

My illusions and faith in human aesthetic nature being shattered, and indeed my faith in Corb himself, I write to you to ask what can be done to save and resurrect this and other buildings which should be preserved as international monuments.

SUSAN DORNAN Liverpool School of Architecture



"IT'S THE SAME THE WHOLE WORLD OVER"

In the February issue of Action Etudiante, a Swiss student newspaper, the students of the Geneva University School of Architecture published a report and survey of its organisation and relevant student feelings and opinions.

The survey was organised by the student executive and received almost total participation within the school.

General Organisation

A backcloth to the report was created by describing the school syllabus. The course is divided into two consecutive parts, theory and practice.

The initial theoretical stage is divided into three "ateliers" through which the student passes according to his ability and interests, there being no impeding time limit.

Architectural exercises are carried out under the direction of a studio master. along with courses in seven subjects dealing with technical, scientific and aesthetic problems related to the subject. The Swiss student will pass from each " atelier " on collective judgment of his design work and on obtaining the necessary examination results.

On completing his theoretical course the student embarks on the practical stage in an architect's office, still retaining ties with his parent school.

To obtain his diploma, the Swiss student must handle a brief, design, administer and construct a building.

Advantages and Contrasts

Having explained their syllabus, the Geneva students agree that it has many advantages, allowing the student great liberty, and enabling him to work and pay for his studies at the same time.

The Swiss system indeed contrasts with its British counterpart. It needs further study to decide if it is an ultimate solution to education, but compared with the inflexible, archaic, system prevalent in Britain, it is a notable advance.

The Swiss course allows for the student's individual capabilities to be developed and involves him in the practical process of building, as against allowing him to leave his school brandishing against the building trades a mere paper diploma in theoretical applied architecture.

However, all is not well in Geneva; apparently undercurrents of unrest have prevailed for some time.

The survey is divided into four partsthe syllabus; school facilities; external problems; and general points. The answers are on a "Yes, No, Don't Know" basis.

Syllabus and Method

There are ten questions dealing with curriculum, criticism, staff-student relations, travel, integration and, tentatively, with the content of architecture and the architect's responsibilities.

The results show a strong affinity to student feelings in this country. The Geneva students feel that their design schemes bear little relationship to technical, social, economic or administrative problems common in everyday practice. Criticism of schemes is superficial and sparse, resulting in an autocratic approach to design by the student. Generally students wish for greater integration with allied professions and demand greater staff-student co-operation.

The vast majority of the students require their design projects to be related to the real needs of society, in the form of buildings which benefit that society as a whole, rather than individual dynamic or sculptural pieces of "art." They also realise that the architect can no longer be an individual genius, but must be a member of a group working towards a common end. Unfortunately the Swiss have studied these aspects no further.

It is essential that they analyse architecture before formulating the architect's responsibilities. Only then can they determine a method of education and its requirements.

Only four questions cover this section. The students feel that insufficient technical data and materials are available, but opinion is divided on other library facilities. It is important to analyse the facilities further and to compare them with other schools of architecture. Only then can shortcomings be decided on a valid basis.

The last parts of the survey deal only indirectly with methods of education.

Generally the questions were too vague to answer precisely, e.g., "What are the big problems in architecture today?" Well, Well! However it was interesting to note that only a small percentage of students on leaving the school wished to work as individuals.

Conclusions

The Geneva students have proved that dissatisfaction exists. The following points are immediately discernible.

(i) Reform of the curriculum is required, projects must be related to social needs. (ii) Lectures must be introduced dealing with the human being and his requirements, sociologically and psychologic-

(iii) Opinion tends towards the introduction of a tutorial system.

(iv) Greater participation by the student is required in compiling programmes for design problems.

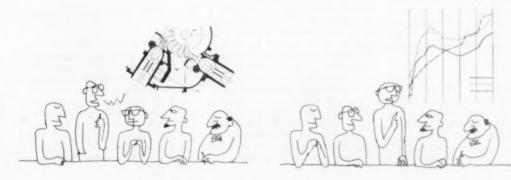
(v) Integration with allied bodies is essential.

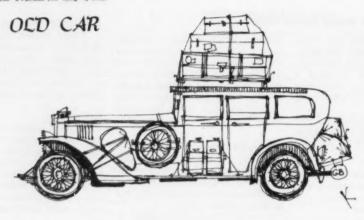
(vi) There is a need for comprehensive libraries with adequate reference systems for ever-changing technical subiects.

It is illuminating to find common desires prevalent in two countries as far apart as Britain and Switzerland. Geneva is now at a stage which BASA reached two years ago, after conducting a similar survey on a rather wider scale. In Britain it was soon realised that a greater analysis of some aspects was required. The content of architecture and its functions, particularly as related to architectural education, are being discussed over a series of conferences resulting in policy decisions. Tangible subjects, such as facilities, are being analysed by means of a rigorous questionnaire supplemented by personal observations.

The Geneva students have now to carry out these difficult tasks, and BASA would wish to assist them with any comparative data they may require. Initially they must compare their own feelings with those of students in other schools; only then can progress begin. We have much in common, most of all in our wish to reform our educational systems towards a more relevant and realistic expression of our future profession. We wish Geneva students every success in their efforts.

KENNETH CLAXTON





At this time of year many people are planning to spend their summer holidays in distant parts. A very economical way of travelling a long way is to go by old car. I will try to point out to you the advantages of this practical and amusing, frequently hair-raising, way of seeing the world, and how to choose a suitable vehicle and crew. My experience is largely based on a 6,000-mile five-and-a-half-week trip to Yugoslavia. Greece and Turkey undertaken in a car just twenty-six years old, with six passengers and half a ton of luggage. First choose your car. 1928-1933 are the best years as most of the pressed steel bodies of the thirties have rusted away by now. Find somebody in your college who "knows" about cars and take him along to help you in your choice. We saw a 1933 Sunbeam saloon advertised in the local paper and our chap shook it, kicked it, listened to it and so on, and came back a few days later with twelve pounds ten, and it was ours. Buy the biggest car you can find. Don't worry about petrol consumption; even if it does only twelve miles per gallon that's only three pounds each per 1,000 miles. Now you must persuade your mechanic friend to come with you in the summer and, a week or two later, at a moment when he is off his guard, ask him to prepare the car for the journey. Make him check the engine, brakes, steering, cooling system and electrics. If it's a real vintage car he will delight in taking it completely to pieces and putting it back together again. Make sure you have six or seven really good tyres and don't worry too much about the cost as it won't be too much between six people. Our trip cost us £55 each, including buying and overhauling the Sunbeam.

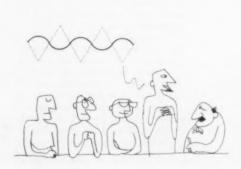
Now is the time to choose your crew, and to get some money out of them to make sure they don't drop out at the last minute. Take a theologist and a psychologist: then if you are ever bored driving through the desert, or stuck in gaol, start talking about birth-control or something, sit back and listen to a good argument. Whatever you do don't take the sort of chap who will start photographing the peasants in front of warships or frontier posts, otherwise you may not be able to resume your studies for several years.

It is hopeless to try to take every sort of spare for the car. Electrical failures are the most common and a spare dynamo is essential. Ours packed up in Athens but fortunately we had a wonderful battery which only needed charging every ten days. Batteries are not usually like this. We fitted our car up with lights for the tents at night and had the horn wired up as a burglar alarm which went off at the most embarrassing moments. Take at least five gallons of oil and two five-gallon jerry cans for petrol. The latter will save you a lot of money as petrol prices vary by as much as four shillings per gallon from one country to another. It is of course illegal to take cans of petrol over most frontiers but I did hear of one party, driving a Sunbeam,

who went on exactly the same journey as us, crossing France on British petrol, Italy on Swiss, Germany on Austrian . . .

Luggage will need much careful thought. Although we worked it out in detail, people turned up with a lot of extra odds and ends; luxuries like razors, soap and even hairbrushes. The Sunbeam sank to the ground when we piled into it. The hand brake came on every time we went round a bend and we had to release it completely before we had gone five miles, the brakes smoking ominously. We went over twenty-six mountain passes, 5,995 miles, with no handbrake. A good idea, if this happens to you, is to have a 9 in. by 3 in. airbrick handy. Tie a piece of string through the holes, put it under a front wheel and swing it in as you drive away, taking care not to hit passers-by in the process, A luggage rack on the roof is essential. Make it out of 6 in. by 1 in. floorboards so that it is rigid in itself and will spread the load evenly over the whole roof. We put three trunks on ours and the top one had to be very subtly adjusted or we went along with a ten degree list. We established a rota for watching it, a rota for driving, and a rota for shouting "Good morning" to the natives in the appropriate language.

The most frightful things will happen to your car on the journey. Remember to keep the wheel-nuts tightened, particularly on rough roads. We found we could take our wheels off without spanners at one stage. Don't worry too much about getting repairs done in villages off the beaten track. The more remote the place, the more imaginative the garage-man. He will convert any old bit of metal into a spare it would take years to get in this country. I once heard of an Arab jeweller, in a bazaar, making a ball-race for a Land-Rover backaxle! The Sunbeam is now full of pieces of Yugoslavian boring and Peleponnesian Volkswagen. Our worst moment was when we were climbing a mountain near Titograd. A valve fell into the cylinder, was folded in three, and then knocked back through the cylinder head. Water, steam and oil poured out everywhere and we thought our tour had come to an abrupt end. We had visions of abandoning our





beloved Sunbeam and hitch-hiking with our trunks. However the car was towed with about two feet of rope up and down the mountains to the nearest garage. The fellow there was not particularly helpful in suggesting that we cut off half the engine and carry on with the other half, but the local bus depot made a splendid repair, welding up the hole in our cylinder head. I hope this sort of thing will not be necessary on your trip but, whatever happens, you will get at least thirty punctures. Keep the tyre pressures high on the very rough roads or the side walls will get cut, but do remember to let them down again when you come onto a motorway or they will get much too hot. We had eight tyre-bursts the day we made this deduction.

You will be well advised to observe the law of the countries you travel through, particularly the speed limits. On no account sell anything to the natives. While in Ismir we heard of a British sailor who, having got insufficiently drunk, tried to sell his boots. The first passer-by was, unfortunately for him, a customs officer and he had, by the time we arrived, already reclined two years in the local gaol.

I hope that these experiences will help you to enjoy your long distance travels. Incidentally, I have a 1933 Sunbeam for sale—ideal for a trip on the Continent—please write to me c/o BASA.

ADRIAN SANSOM

EDUCATION IN NORTHERN IRELAND

We recently published two letters from Mr. Edwin Johnston concerning architectural education in Northern Ireland. In particular Mr. Johnston severely criticised the standards of the Belfast School of Architecture, the lack of facilities for town planning and landscape study and post-graduate research, and the system of local authority grants, which often forces students of average means to complete the first three years of their training in a school which is neither recognised nor listed by the RIBA, and which offers no exemptions from the Institute's examinations.

When Mr. Johnston recently revisited his native Ulster, he sent us the following letter, explaining the difficulties facing the Belfast School and the efforts being made to overcome them.

sir: My recent letter on architectural education has resulted in considerable response, and I should like to point out that my motive was simply to bring to light the present problems concerning the Belfast School. News of recent trends in architectural education in N. Ireland is to some degree encouraging, and, therefore, I wish to outline as concisely as possible the current aims and steps which are being taken to ensure



The Sunbeam on a mountain road

a more satisfactory course in the near future.

The need for a fully recognised school in N. Ireland cannot be over-emphasised and in this respect one can only hope that the current application for RIBA recognition of the Intermediate course will be successful.

The main reason for the failure of the Belfast School to obtain recognition in the past has been the tendency of many of the best students to move to a recognised school in England before reaching Intermediate level. This has resulted in the remaining number of students being inadequate to present a worthy case for recognition.

It is encouraging to observe that the present third year contains thirteen students (as opposed to four in the 1959-60 session), all of whom have had their testimonies approved and have entered for the RIBA external Intermediate examination in May 1961. In addition one local authority has recently made an award of a scholarship for town planning to a Northern Ireland graduate, an example which we hope will be followed by others so that postgraduate research may be encouraged. The new College of Art for Belfast (now under erection) has been planned to

under erection) has been planned to facilitate an eventual five-year course in architecture. After such a successful achievement on the part of Belfast education authority and the R.S.U.A. it is most desirable that the education and university authorities should in

due course collaborate, so that the possibility of a Queen's B.Arch, may be realised similar to the B.Sc. awarded to successful technical engineering students. If the School of Architecture eventually became affiliated with Queen's University, Belfast, students would also benefit from an atmosphere which would stimulate cultural activity. Indeed one of the major deficiencies of architectural education in centres other than universities is the insufficient emphasis laid on the wider aspects of the architect's education.

These are only some of the problems which confront the Belfast School of Architecture; others include lack of tradition and reputation, and above all an acute sense of isolation.

In conclusion I should like to emphasise that the opinions expressed in my letters are also those of some of the present Belfast students. Also, as a student from N. Ireland who has been denied an architectural education in a recognised school, I wish the Belfast School every success with its present application for recognition.

EDWIN JOHNSTON

More space will be devoted to this subject next month. Will students who wrote under the pseudonyms "Belfast Opinions" and "Third Year Architectural Students" send their names and addresses (not necessarily for publication) if they want their letters to be included?

BASA TOUR OF SCHOOLS

Some time ago it was decided that a member of the central BASA organising committee should visit every school of architecture in the country. The visits are already well under way in the south and they should be in full swing in the north within the next fortnight. Inevitably any national organisation like BASA must work from a centre, and almost as inevitably this centre must be London. Yet the six big London schools have perhaps less to gain from BASA than those more distant. It was with a particular view to the provincial schools that the BASA facilities were established. One of the main objects of the current visits is the promotion of these facilities, facilities which will not only draw all our schools closer together, but also provide speakers and opportunities for work abroad beyond the capacity of the smaller provincial schools. These facilities are available to part-time as well as full-time schools.

In July this year the IUA Congress comes to London, bringing over 2,000 architects and many students from abroad. The chance of hearing speakers like Pier Luigi Nervi and Henry Russell Hitchcock should not be missed. Students who can afford the stiff conference fee should contact BASA at the Building Centre for help over "digs," or ask our representative when he visits your school.

Architectural education has always been one of the main preoccupations of BASA, and our representative will explain the conclusions and policy resulting from the series of conferences on the subject organised by the Association. Come and join in the next "confab," at York this September.

"confab," at York this September.
So when you see the posters announcing
the visit to your school, go along to
the meeting and find out just what
BASA can offer you (and vice versa,
we hope!). We think you will find it
well worth the 5s, annual subscription.

BASA FACILITIES

The Lecture Pool is available to any School wishing to use it. BASA supplies subsidised lectures on request to the organising secretary, Graham Lees, at the R.W.A. Bristol, 25 Great George Street, Bristol I.

Travelling Exhibitions

The response to this scheme has been very disappointing. The system evolved at the Oxford Conference is foolproof. To stimulate Schools into seriously considering their exhibition circuits as important, BASA is willing to give a 50 per cent subsidy for the cost of producing slides. The cost of preparing slides is not in itself expensive, one roll of colour film providing 36 slides complete for the cost of 30s. All necessary information on taking slides has been circulated and further copies will be sent on request.

It is BASA policy that the Schools break down the unnatural barriers between them and gain from the exchange of vital ideas.

The travelling exhibition is only one way of achieving this.

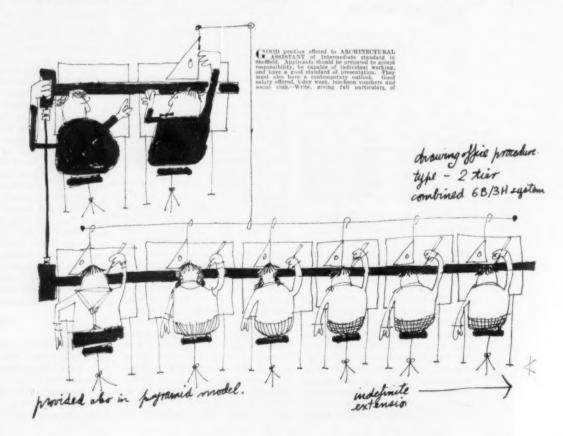
It is now up to the Schools to contact their local secretaries if this scheme is to succeed.

VACATION WORK ABROAD

The normal architectural education syllabus in England allows only limited office experience—office practice itself being, nevertheless, an important part of a student's education as an architect. The vacations offer time in which to travel and gain additional experience; but ideally an opportunity of working and living abroad provides the means for architectural knowledge which could not be gained in England.

An international "clearing house" of work for students has been established through International Association for the Exchange of Students for Technical Experience offers a wide variety of jobs. Working with IAESTE scheme, and as far as possible selecting the most advantageous situations here and abroad (working permits, etc., being provided through IAESTE), BASA hopes to establish a wider international exchange than before by finding more jobs for students in England and in this way creating more openings abroad.

Would all architects willing to offer work to foreign students please write to the Secretary, BASA, The Building Centre, Store Street, London, W.C.1?



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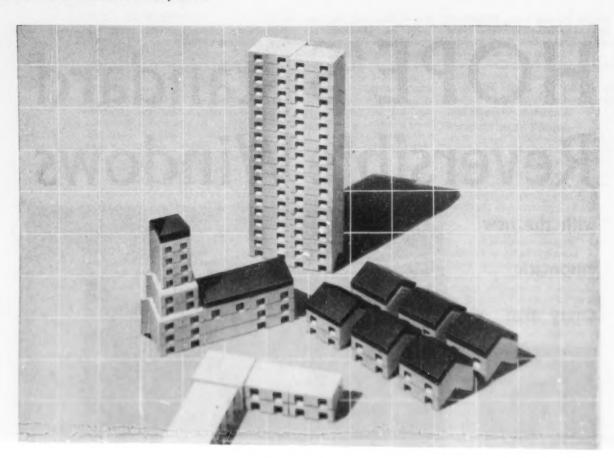
LINCOLN TOWER, LADYWOOD, BIRMINGHAM A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., City Architect

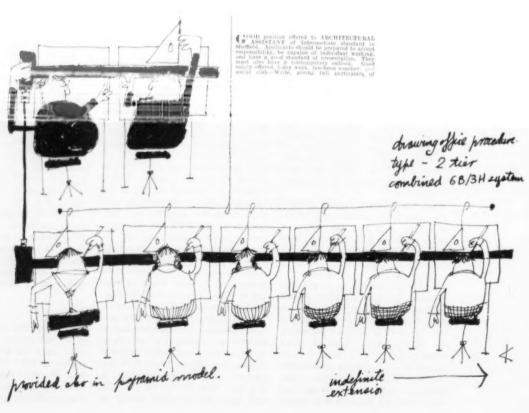
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construction drawings

Key drawings: or reference general layouts should be built up with the following points in mind:-

- t. They are not details of construction but reference drawings to supporting information which will be in the form of details, schedules, or Bilis of Quan-
- 2. They should show only dimensions sufficient to prepare the site, to set out the building in carcase form, and read as complementary documents to layouts respared by consultants.
- s. They should give written general in-

Construction details: which in the first instance are prepared in draft form as your own investigation drawings, will probably cover all of the building exhaustively. As such, they should be produced quickly for early exchange with consultants and can be frankly "rough," marked "rough," and to a common scale which will ultimately be sensible for all details (probably 1) in. or 3 in . By saying "exhaustively" I mean the details should be investigated three dimensionally and by "exploded" view as well as to reale if junctions are which can be passed to the quantity surveyor and finally issued to the contractor? They should be the minimum number of drawings which give all information.

Since all this information is inevitably read together by the client, the estimator and the general foreman on the site, this is a strong argument in favour of putting the schedules and the censtruction details on the same sheet as the key drawing and this should be done whenever possible. In any case it should be possible to put all the

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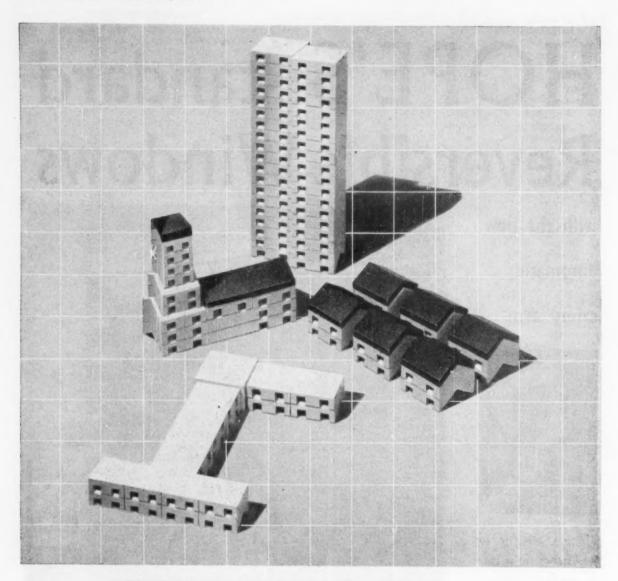
LINCOLN TOWER, LADYWOOD, BIRMINGHAM A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., City Architect

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construction drawings

21

Key drawings: or reference general layouts should be built up with the following points in mind:—

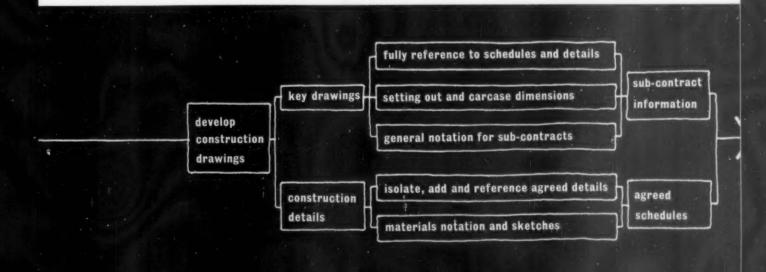
- They are not details of construction but reference drawings to supporting information which will be in the form of details, schedules, or Bills of Quantities.
- They should show only dimensions sufficient to prepare the site, to set out the building in carcase form, and read as complementary documents to layouts prepared by consultants.
- 3. They should give written general information related to the carcase only, but where services consultants are not supplying separate service layout drawings, they should show main service
- 4. Their primary function is to carry accurate and comprehensive cross references to details, other people's drawings and all scheduled items. The scale should be chosen accordingly (½ in. or ½ in. maximum).

Construction details: which in the first instance are prepared in draft form as your own investigation drawings, will probably cover all of the building exhaustively. As such, they should be produced quickly for early exchange with consultants and can be frankly "rough," marked "rough," and to a common scale which will ultimately be sensible for all details (probably 11 in. or 3 in.). By saying "exhaustively" I mean the details should be investigated three dimensionally and by "exploded" view as well as to scale if junctions are to be fully appreciated visually and constructionally—this includes services as well as solving architraves hard against a partition, for example. Draft schedules should run concurrently in order to assess the construction implica-

Contract drawings: are all these items developed to represent a statement of agreed information (including your Party Settlement Agreements) which can be passed to the quantity surveyor and finally issued to the contractor? They should be the minimum number of drawings which give all information.

Since all this information is inevitably read together by the client, the estimator and the general foreman on the site, this is a strong argument in favour of putting the schedules and the construction details on the same sheet as the key drawing and this should be done whenever possible. In any case it should be possible to put all the schedules and construction details related to a particular key drawing on the one sheet. Most site problems arise from isolated documents.

But whichever way it is done, the details need only be traced from the agreed roughs, eliminating yards of cavity wall which say nothing, but keeping the three dimensional sketches.



SIB No.

UEC No. 651:65

public services

22

As soon as the key drawings have reached a sufficiently detailed stage to explain proposals, they should be discussed with or copies sent to the appropriate public service authorities. Information on those services which exist on the site can then be plotted on the drawings and the authority can make recommendations and submit estimates (three copies for later distribution) for extending the service to the new property.

You will need to discuss the following with the various authorities:—

Water

Size, materials, depth, position and pressure of existing service; meter pit requirements and materials; water storage requirements or other recommendations; arrangements which can be made for builder's supply.

Drainage

Size, materials and invert levels of existing drains; positions at which storm water drain and soil drains can be entered and, where applicable, recommendations on materials and construction other than the byelaw minimum.

Electricity

Capacity, protective material, position and/or depth of existing service metering arrangements and types of service required.

Transformer positions, possible amendment or resiting requirements.

Gas

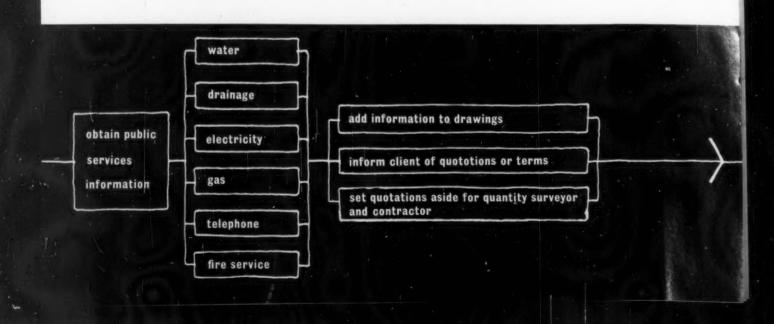
Size, material, depth and position of existing service; metering requirements. Telephone

Position and/or depth of existing services and recommendations on installation and siting of equipment.

Fire Service

In conjunction with water services, recommendations on dry risers—sizes and pressures—type of equipment, valves and access, etc., and suggested positions for lightning conductors.

The information required from each should also include any regulations on fittings, rates, maintenance accessibility and suggested duct sizes, the division of costs for the works, the amount of builder's work required for the service with the description for inclusion in the Bill of Quantities; what notice is required for commencement of works, how long it will take to complete the work; arrangements for testing on completion and any other relevant information.



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- 2. Front elevation of a two-storey flat unit at Eltham.
- 3. Plan view of a first-floor flat kitchen showing position

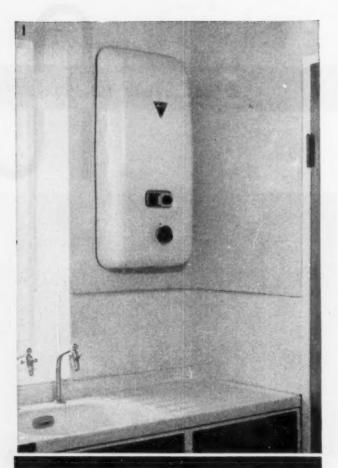
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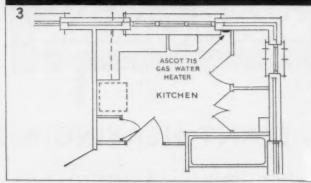
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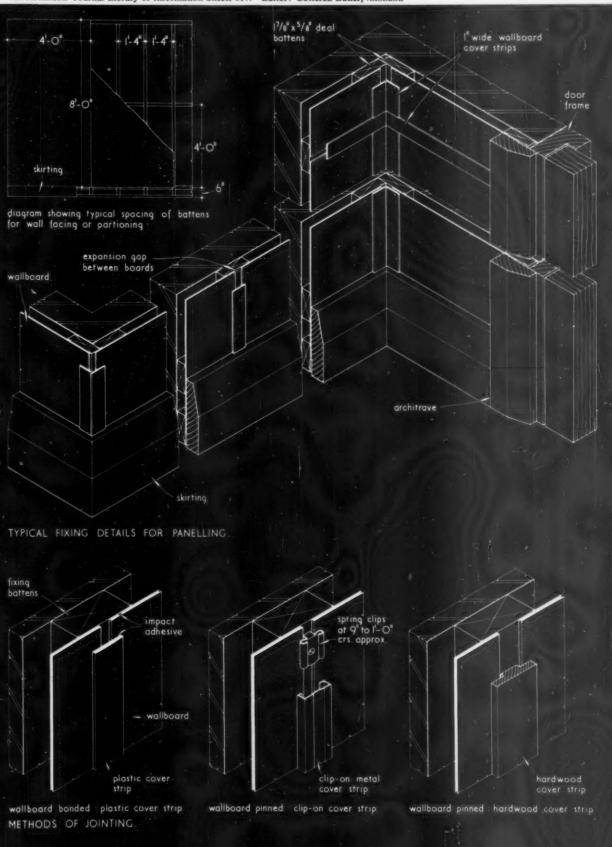




SHEET MATERIALS PLASTICS GENERAL DATA

The Architects' Journal Library of Information Sheets 817. Editor: Cotterell Butler, A.R.I.B.A.

15.51 0



WARERITE WALLBOARD : GENERAL DATA I.

Manufacturer : Bakelite Limited

15.S1 ·WARERITE· WALLBOARD: GENERAL DATA 1

This Sheet describes Warerite wallboard, its properties, appearance and basic fixing methods. Sheet 15.S2 gives further details of treatments at dados, cornices and corners and the application of the wallboard to furniture and fittings.

The wallboard consists of a decorative melamine laminated surface on a high-density wood-fibre base. It is strong, rigid and light in weight and although non-loadbearing, it is self-supporting when correctly fixed according to the manufacturer's recommendations. The boards are dimensionally stable, both surfaces being impregnated with resin which reduces the tendency to warp or bow. The maximum dimensional increase as a result of high-humidity laboratory tests is 0.56 per cent.

The decorative surface is resistant to moisture, acids, alkalis, petrol and all common organic solvents. It is unaffected by weak organic acids (fruit juices, vinegar, etc.) or dilute alkalis (detergents, ammonia) but it should not be exposed to prolonged contact with strong acids (sulphuric, hydrochloric, nitric) or alkalis (caustic soda, lime).

The boards are 8 ft. 0 in. long by 4 ft. 0 in. wide by in. thick.

The weight of the wallboard is approximately 73.6 lb./

Cross Breaking Strength

The minimum cross breaking strength is 6,800 lb./sq. in, and the maximum is 11,550 lb./sq. in.: average 8,825 lb./sq. in.

Thermal and Sound Insulation

The material, which has relatively low conductivity, can be used as interior linings in a similar manner to hardboard. By providing an air space between the board and the outer wall an appreciable degree of insulation is obtainable: by combining this arrangement with one of the many types of insulating materials, good thermal- and sound-insulating properties can be given to the lining.

Spread of Flame

The wallboard has been tested in accordance with B.S. 476 and given Class II classification.

Working and Finishing

Cutting: The wallboard can be satisfactorily cut with an ordinary woodcutting tenon saw or a fine-toothed panel saw. Where power tools or a circular saw are used a blade with fine teeth and minimum set should be selected to prevent flaking or chipping. The wallboard should always be cut with the decorative surface uppermost.

Drilling and hole-cutting: Normal woodcutting drills, bits and keyhole saws may be used but an engineer's twist drill or portable router are preferable to ensure clean-cut edges quickly and easily.

Edge finishing: A woodcutting plane, file or sanding block can be used to finish the edges of boards.

2 in. by 1 in. vertical battens of prepared softwood or suitable hardwood should be provided at 1 ft. 4 in. centres as shown in the diagram on the upper face of the Sheet. These may be plugged direct to the brickwork or, in existing buildings, to a plaster wall. For the best results the battens should be set true and fair. The wallboard may be pinned or bonded to the battens allowing a 1-in. gap between boards to take up any movement due to atmospheric changes, and the joints masked by coverstrips. Alternatively, the wallboard can be held in special sections which retain the edges of the boards and cover the joints at the same time.

Pinning: The edges of boards should be pinned at 6 in. to 9 in. centres and cover strips of wallboard wood, plastic or metal screwed or nailed through the expansion gap, as described under Bonding. Where full-size sheets of wallboard are to be fixed a combination of bonding and pinning is recommended.

Bonding: An impact-type adhesive should be used and the use of a few panel pins also is recommended. Cover strips of wallboard or other material can be bonded to the boards and pinned through the expansion gap. Alternatively wood, metal or plastic cover strips can be screwed or nailed to the battens through the expansion gap, care being taken to avoid penetrating the wallboard.

Bonding direct to plaster or brick walls is not recommended, but battens can be dispensed with when fixing to a wall or partition of timber-framed matched boarding or plywood that is reasonably level. Special sections: Where these are used, care must be taken to ensure that there is no restriction of movement of the boards, especially where atmospheric changes are marked, e.g. in bakehouses, public baths etc. The drawing on Sheet 15.S2 gives examples of this type of fixing.

It is not normally necessary to condition the wallboard before installation, but in new buildings where wet conditions prevail, it is advisable to store the boards near their ultimate location for at least 24 hours.

Applications

In addition to its use for interior linings and facings, the wallboard may be used for furniture and fittings and for the facing of flush doors (see Sheet 15.S2).

Finish and Colours

The surface has a medium gloss finish and is available in a number of standard patterns and colours. patterns and colours are normally on one side only. Other patterns and colours can be obtained to order where sufficient quantities justify special manufacture.

The hard, impervious surface is readily cleaned of dust and dirt with a wash-leather, while soap and water can be used on surfaces which have become greasy without ill effect. Domestic solvents, or cleaners such as petrol, can be safely used to remove superficial stains or ingrained deposits caused by scuffing.

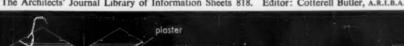
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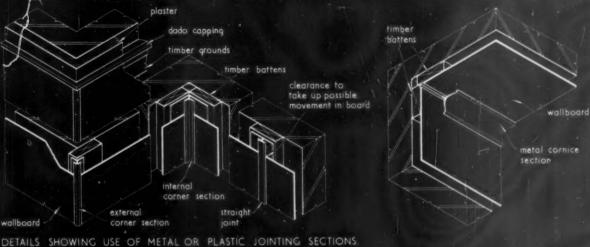
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Telephone: Ware 3202.

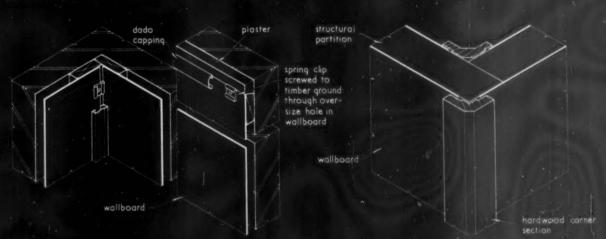
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SHEET MATERIALS PLASTICS GENERAL DATA

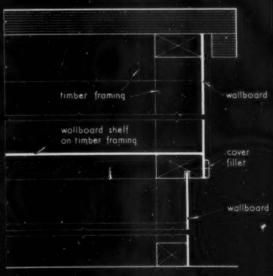
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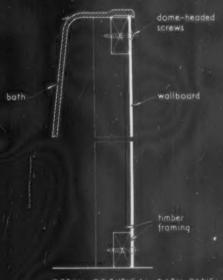




DETAILS SHOWING USE OF GLIP-ON COVER STRIPS.



DETAIL OF CORNER OF WALLBOARD FACED PARTITION



WARERITE WALLBOARD : GENERAL DATA 2.

Bakelite Limited

15.S2 ·WARERITE· WALLBOARD: GENERAL DATA 2

This Sheet is the second describing Warerite wallboard. It should be read in conjunction with Sheet 15.S1 which describes its properties, appearance and the basic methods of fixing the wallboard as wall lining. The drawings on the face of this Sheet show typical treatments at dados, cornices and corners and the application of Warerite wallboard to furniture and fittings.

Description

The wallboard consists of a decorative melamine laminated surface on a high-density wood-fibre base. It is strong, rigid and light in weight and although non-loadbearing, it is self-supporting when correctly fixed according to the manufacturer's recommendations. The boards are dimensionally stable, both surfaces being impregnated with resin which reduces the tendency to warp or bow. The maximum dimensional increase as a result of high-humidity laboratory tests is 0.56 per cent.

The decorative surface is resistant to moisture, acids, alkalis, petrol and all common organic solvents. It is unaffected by weak organic acids (fruit juices, vinegar, etc.) or dilute alkalis (detergents, ammonia but it should not be exposed to prolonged contact with strong acids (sulphuric, hydrochloric, nitric) or alkalis (caustic soda, lime).

Cine

The boards are 8 ft. 0 in. long by 4 ft. 0 in. wide by $\frac{1}{2}$ in. thick.

Wall Lining

As described on Sheet 15.S1, vertical battens should be provided at 1 ft. 4 in. centres plugged direct to the brickwork or, in existing buildings, to a plaster wall. Additional vertical battens must be provided at corners, as shown in the drawings on the face of the Sheet, to provide grounds for the corner sections. Horizontal battens should be provided where necessary for dado cappings and cornices. The clips of the patent clip-on cover strips illustrated must be adapted at corners and dados by removing the small tongues that are normally inserted in the joints between boards (see Sheet 15.S1). Fixing for wall-lining can be by bonding or pinning or a combination of both, as described in detail on Sheet 15.S1.

Partitioning

Wallboard can be used for covering partitions in the same way as for wall lining. Where the partition is

of timber-framed matched boarding or plywood that is reasonably level, fixing battens can be dispensed with and the wallboard bonded directly to the partition.

Flush Doors

Panelled doors can be readily converted into flush doors by facing them with Warerite wallboard. This can be carried out by bonding or pinning the boards while the door is in position but it is normally more convenient to take the door down. The wallboard should then be bonded with an impact-type adhesive, which will ensure that once the wallboard has been pressed into position it remains firmly fixed and requires no sustained clamping. The adhesive also provides a flexible bond which will take up any movement resulting from the exposure of each side of the door to different conditions, for example, where it is between a bathroom and a landing.

Furniture and Fittings

Where wallboard is used for furniture and fittings the frame and panel method of construction is normally employed. If required, however, the wallboard can be used as cladding over structures of solid timber, plywood, chipboard, insulation board, etc. The wallboard can be secured by screwing, pinning, various types of moulding or by bonding with impact-type adhesive. A combination of bonding or pinning and coverstrips or mouldings gives satisfactory fixings and a neat appearance. The drawings on the lower face of the Sheet show two examples of such fixings: a typical bar or counter and a panelled-in bath.

Finish and Colours

The surface has a medium gloss finish and is available in a number of standard patterns and colours. The patterns and colours are normally on one side only. Other patterns and colours can be obtained to order where sufficient quantities justify special manufacture.

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Bakelite Limited

Address: Watton Road, Ware, Herts. Telephone: Ware 3202.

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WALLS AND PARTITIONS: 111

working detail

GLAZED PARTITION: OFFICES IN LONDON, W.1

Eero Saarinen and Associates in association with Yorke, Rosenberg and Mardall, architects

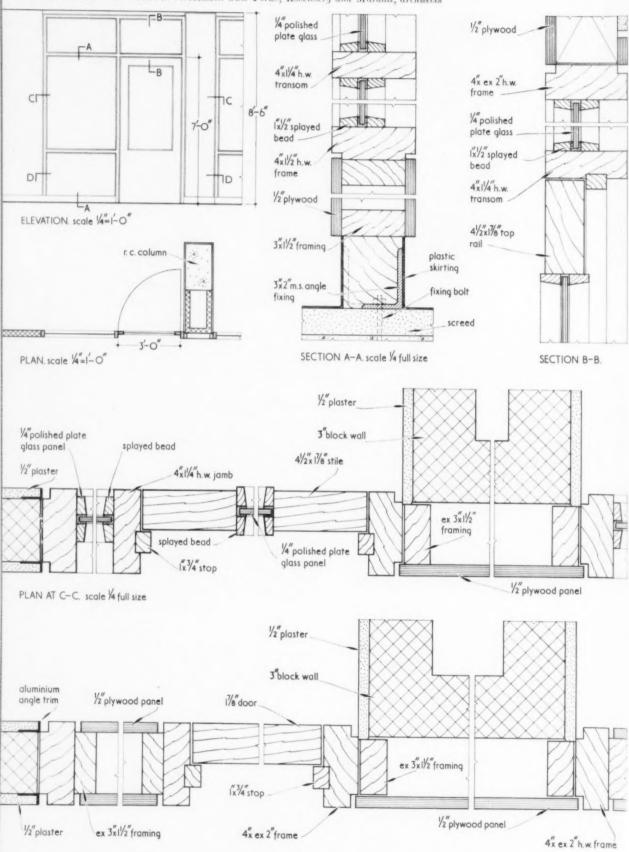


This glazed partition is characterized by its neat detailing at the junctions between its timber framing and the breeze block partition wall.

working detail

GLAZED PARTITION: OFFICES IN LONDON, W.I

Eero Saarinen and Associates in association with Yorke, Rosenberg and Mardall, architects





NAIRN VINYL TILES

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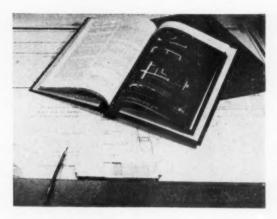
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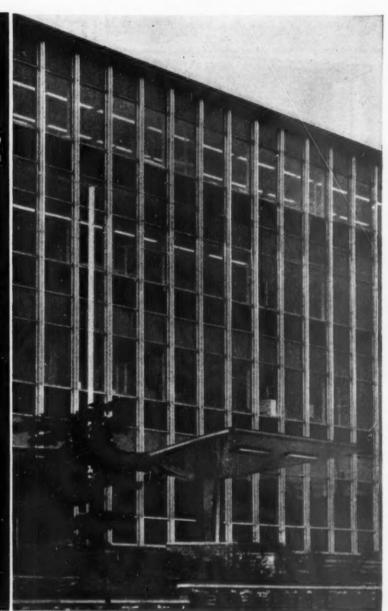
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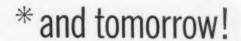
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Luxury Flats and Offices in a Nash Crescent

'Standard' equipment used extensively

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plumbing sub-contractors :-**ELLIS (KENSINGTON) LIMITED**

A new block of luxury flats and offices will shortly be completed in Park Crescent, W.1—the lovely crescent near Regent's Park, famous for its fine Nash houses. The west side of the crescent was heavily damaged by enemy bombing during the war, and to preserve the character of the crescent the frontage has been rebuilt exactly to the original Nash design.

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from durable vitreous china. 'Standard' Kingston double trap siphonic low level closet suite, also of vitreous china, completes the sanitary fittings in these bathrooms. 'Standard' equipment has also been used extensively in the luxurious offices. Devonian wash basins, Vitural slab urinals and Sano wash down closet suites all made from vitreous china have been used in the washrooms.

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The Lowline bath



The Kingston wash basin



The Kingston low level closet suite The Vitural slab urinal





The Sano wash down closet suite



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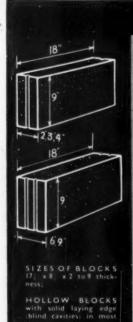
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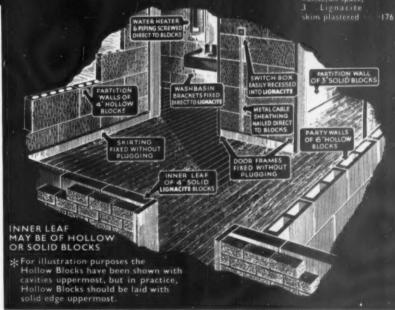
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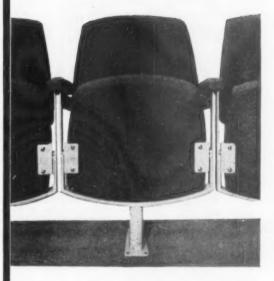
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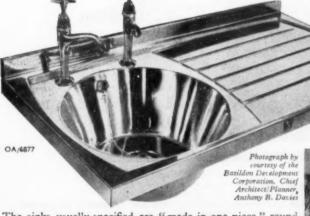
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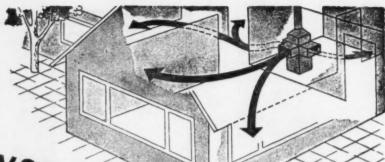
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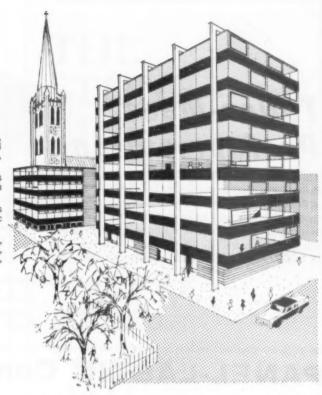
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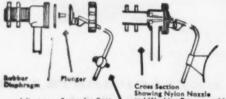
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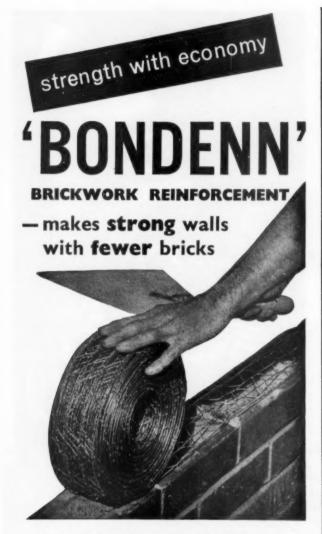
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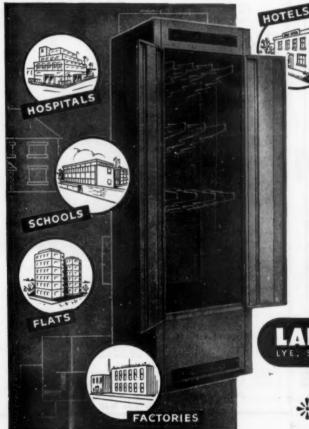
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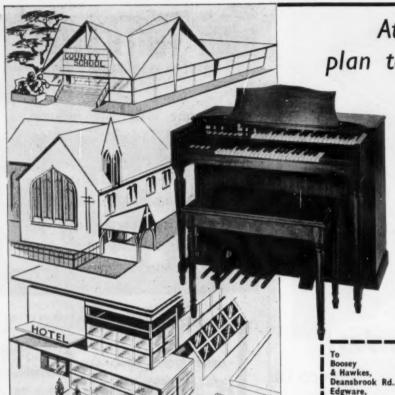
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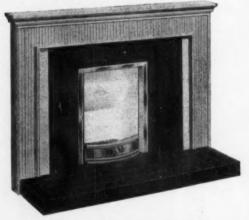
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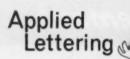
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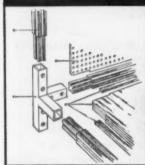


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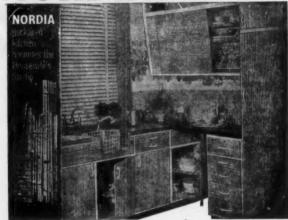


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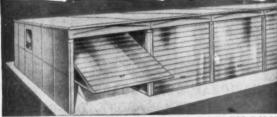
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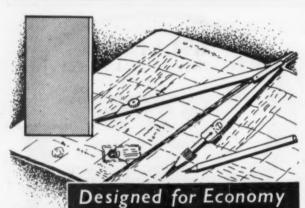
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A.P.T. I.I. Salary £645—£915 p.a.

A.P.T. III. Salary £645—£916 p.a.

A.P.T. III. Salary £960—£1,140 p.a.

A.P.T. IV. Salary £1,40—£1,310 p.a.

A.P.T. IV. Salary £1,40—£1,310 p.a.

A.P.T. IV. Salary £1,100—£1,310 p.a.

A.P.T. IV. Salary £1,100—£1,310 p.a.

A.P.T. IV. Salary £1,100—£1,310 p.a.

A.P.I. Salary £1,00—£1,310 p.a.

A.P.I. Salary £1,00—£1,310 p.a.

A.P.I. Conditions of Service; superannuation; medical examination.

Applications, stating age, present position and salary, details of previous appointments, together with the names and addresses of two persons for reference, must reach the County Architect, Shire Hall, Gloucester, by 13th May, 1961.

Clerk of the County Council.

7192

BOROUGH OF HORNSEY
APPOINTMENT OF ARCHITECTURAL
ASSISTANT

Applications GRADE A.P.T. I/II

Applications are invited for the above appointment in the Architects' Section of the Borough Engineer & Surveyor's Department Salary according to experience within Grades A.P.T.

I/II (2545 to 2560 plus London weighting).
Details and application form from the Borough Engineer & Surveyor, Town Hall, The Broadway, Crouch End. London, N.8, to be returned by Wednesday, the 17th May, 1961.

KINGSTON UPON HULL EDUCATION COMMITTEE

KINGSTON UPON HULL EDUCATION COMMITTEE

Appointment of Resident Engineer for the erection of the David Lister High School, Kingston upon Hull

Applications are invited from suitably qualified men for the post of RESIDENT ENGINEER for the erection of the David Lister High School, Kingston upon Hull. This new comprehensive school, which will provide accommodation for 1,440 pupils and is estimated to cost about 2617,000, is being designed by Messrs. Lyons, Israel and Ellis, Chartered Architects of London, with Messrs. F. J. Samuelly & Partners, of London, as Consulting Engineers. The commencing salary will be at the rate of £1,000 per annum and a site allowance of £150 per annum for a single man or £200-£250 per annum for a single man or £200-£250 per annum for a single man or £200-£250 per annum to a married man depending on the particular circumstances, will be payable to a successful candidate living away from home. The appointment is for a period of about two and a half years commencing in about July, 1961.

Application form and further particulars may be obtained from the undersigned to whom completed forms should be returned not later than the 20th May, 1961.

S. W. HOBSON.

Chief Education Officer.

Guildhall, Kingston upon Hull, Yorkshire.

Yorkshire. 7097

ROYAL BURGH OF DUMFRIES
DEPUTE BURGH ARCHITECT
Applications are invited from qualified Architects, preferably with experience in Redevelopment Work.
The appointment, within the Salary Scale £1,230 £1,430 (by three increments of £50), will be subject to the Town Council's Superannuation Scheme and N.J.L.C. Conditions of Service, and the successful applicant will require to pass a medical examination.

If required, the tenancy of a Council house will be given to the successful applicant. Applications, stating age, qualifications and experience, and the names of two referees, should be lodged with the undersigned not later than 12th May, 1961.

GEORGE D. GRANT,

GEORGE D. GRANT, Town Clerk Municipal Chambers, Dumfries. 15th April, 1961,

WYCOMBE RURAL DISTRICT COUNCIL
APPOINTMENT OF ARCHITECTURAL
TO APPOINTMENT OF ARCHITECTURAL
The appointment is temporary but it is anticipated that the current programme of work will provide employment for at least three years.
The successful applicant will be engaged principally on work connected with bousing schemes for aged persons with opportunities for survey work and a variety of general duties.
Applicants should be next and accurate draughtsmen with experience in the preparation of working drawings and detailing from sketches and must have a good knowledge of building construction.

of working drawings and and must have a good knowledge of building and must have a good knowledge of building.

The Council will be prepared to assist with housing accommodation if required.

Applications endorsed "Architectural Draughtsman," should be addressed to K. E. M. Daniels, A. M. I. C. E. M. I. Mun. E. A. R. I. C. S. Engineer and Surveyor, 8/9, Easton Street, High Wycombe, and should reach him not later than 24th May, 1961.

L. C. RYSDALE,

Clerk of the Council.

High Wycombe.

BOROUGH OF ILFORD

BOROUGH ENGINEER'S DEPARTMENT
APPOINTMENT OF ARCHITECTURAL
DAUGHTSMAN

GRADE MISC. IV (Mate or Female)
Applications are invited for this appointment.
Salary 2622-2685 (plus London weighting, depending on age, and amounting to 240 D.a. if 26 or over). Commencing salary according to qualifications and experience. Maximum paid to suitable applicant. Five-day week. Candidates should be competent draughtsmen and be capable of preparing working drawings under supervision. Appointment permanent, superannuable and subject to medical examination.

Form of application obtainable from Borough Engineer. Town Hall, Ilford. Closing date 15th May, 1961.

LANCASURDE COUNTY.

LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
ASSISTANT ARCHITECTS. A.P.T. V (£1,310—
£1,480. (Starting salary according to

£1.480). (Starting salary according to experience.)
Applications are invited from qualified ARCHI-TECTS of initiative, keen on design and modern constructural methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 12th May.

7109

BOROUGH OF ENFIELD

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT
Applications are invited for the following permanent appointments (five-day week):—
ENGINEERING ASSISTANT—A.P.T. II.
ENGINEERING ASSISTANT—A.P.T. III.
ARCHTECTURAL ASSISTANT—A.P.T. III.
Sold A.P.T. IV.
SENIOR PLANNING ASSISTANT—A.P.T. III.
Details of appointments and application forms obtainable from the Borough Engineer & Surveyor, 7, Little Park Gardens, Enfield.

CYRIL E. C. R. PLATTEN.

Town Cierk.

CITY OF SHEFFIELD
CITY OF SHEFFIELD
CITY ENGINEER AND SURVEYOR'S
DEPARTMENT
Applications are invited from suitably qualified
persons for the following appointments on the
staff of the City Engineer and Surveyor and
fown Planning Officer (Mr. C. R. Warman, B.Sc.,
M.I.C.E., M.I.Mun.E., M.T.P.I.).
(a) AERA PLANNING OFFICER—Grade B
(21,480—21,670 p.a.). The person
appointed to this post will be required to
take charge of the Special Works Section
which deals with redevelopment units, landscaping, wayside gardens and features, and
generally assist all other Sections of the
City Engineer's Department where matters
of design in association with amenity are
involved.
(c) SENIOR PLANNING ASSISTANT—Grade
CAPT. IV (E1,140—21,310 p.a.).
Candidates for posts (a) and (b) should have a
Town Planning qualification and an architectural
or other suitable additional qualification would
be an advantage.

The commencing salary for each of the above
ovests will be in accordance with experience and
Consideration will be given if required to assist-

qualifications.

Consideration will be given if required to assistance with housing accommodation and removal expenses in suitable cases.

Superannuable posts, N.J.C. Conditions of Service, Medical Examination,

Applications, stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries) and quoting the names of two referees, should be submitted to the undersigned by the 15th May next.

JOHN HEYS.

Town Hall.

Sheffield, 1. 7158

LANCASHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
ASSISTANT ARCHITECT'S, A.P.T. IV (£1,140—£1,310) (Starting salary according to experience.)
Applications are invited from qualified ARCHITECT'S of initiative, keen on design and modern constructural methods, to work on a large and varied programme.

If appointed, applicants will be able to claim a disturbance allowance up to a maximum of £125, a facility offered by the County Council to cover the expenses of removal and other associated costs.

Application forms and details of appointment obtainable from the County Architect, P.O. Box 26, County Hall, Preston, returnable by 12th May.

26, County Hall, Preston, returnable by 12th May.
Tids
COUNTY BOROUGH OF SOUTHEND-ON-SEA
BOROUGH ARCHITECT'S DEPARTMENT
APPOINTMENT OF CHIEF ASSISTANT
APPLICATION OF CHIEF ASSISTANT
APPLICATION
ARCHITECT
TO BOROUGH
APPLICATION
ARCHITECT
TO BOROUGH
APPLICATION
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date.

Applications, giving full details, to be sent to the Borough Architect not later than Monday. 22nd May. 1961.

Canvassing will disqualify. Any candidate who is related to member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN.

Town Clerk.

7155

There is a vacancy in the Divisional Architect's Office. National Coal Board, Northern (N&C) Division, Whitley Road, Longbenton, Newcastle-upon-Tyne, 12, for a young architect, qualified AR.I.B.A. or at final examination standard. Salary within scale 2900 × £35 – £1,250 per annum if qualified or £785 × £30 — £935 (exceptionally up to £1,100) if not yet qualified. Applications giving date of birth and full details of education, qualifications and experience to Staff Department at the above address by: 16th May, 1961. Please quote: A/3.

BOROUGH OF RAWTENSTALL
APPOINTMENT OF CHIEF ARCHITECT
Applications are invited for the above permanent appointment at a salary within A.P.T. IV (£1,140—£1,310 per annum). Applicants should be members of the R.I.B.A.
The appointment will be subject to the provisions of the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the termination by one month's notice by either side. Housing accommodation will be available.
Applications, including names and addresses of two referees, should reach the undersigned not later than Friday, the 12th May, 1961. Canvassing will disqualify. Any relationship to members of senior officers of the Council must be disclosed.

COLIN CAMPBELL, Town Clerk

Town Hall,
Rawtenstall,
Rossendale,
Lancs.

BOROUGH OF RAWTENSTALL
APPOINTMENT OF ARCHITECTURAL
ASSISTANT
Applications are invited for the above appointment on the permanent staff at a salary within A.P.T. III (1980-21,140 per annum).
The appointment will be subject to the provisions of the Local Government Superannuation Act, the National Scheme of Conditions of Service and the termination by one month's notice by either side. Housing accommodation will be available.
Applications, including names and addresses of two referees, should reach the undersigned not later than Friday, the 12th May, 1961, Canvassing will disqualify. Any relationship to members or senior officers of the Council must be disclosed.

COLIN CAMPBELL, Town Clerk.

Town Hall,
Rawtenstall,
Rossendale,
Lancs.

Lancs.

COUNTY BOROUGH OF PRESTON
APPOINTMENT OF CLERK OF WORKS
Applications are invited for the post of Clerk
of Works for the Harris College of Further Education adaptations at a salary of £1,360 p.a. The
appointment will be for the duration of the work,
which is due to be completed in June, 1963.
Applicants should have had considerable experience in shoring and underpinning of existing
buildings during structural afterations.
Applications stating age, present position and
salary, previous positions and details of qualifications and experience, together with the names
and addresses of two referees, to be received by
me not later than Friday, the 12th May, 1961.

W. E. LOCKLEY,
Town Clerk.
7283

W. E. E. LOCKLEY.

Town Clerk.

Town Clerk.

CITY OF SHEFFIELD

ESTATES SURVEYOR'S DEPARTMENT
Applications are invited from:—
1. Surveyors with experience.
2. Newly-qualified Surveyors
3. Students who expect to qualify this year.
4. Young men who wish to train as Surveyors.
The Department, under the direction of Mr.
W. H. Rothwell, B.Sc., F.R.I.C.S., offers a particularly wide field of experience including valuation and acquisition of properties for Housing and Education, Central Redevelopment and road improvement purposes, disposals of land and buildings by short and long leases; improvement, repair and demolition of properties acquired by the Local Authority for its various statulory purposes, rating valuation, agricultural estate management and advice on questions of stability arising out of underground mineral working.

Salaries for trainees range from £355 per annum at age 17 to £555 per annum at 21. Financial assistance is provided for tuition and examination fees. Salaries for qualified surveyors range from £960 per annum on qualification to £1.510 per annum according to experience, with good prospects of promotion to senior grades.

Apply in writing to the Town Clerk. Town Hall. Sheffield. 1.

NORTH WEST METROPOLITAN REGIONAL OUANTITY SURVEYING ASSISTANT required (Ref. 921) for working up bills of quantities and final accounts, measuring on site and taking off for small works.

Also BUILDING SURVEYING ASSISTANT (Ref. 922) for assisting in surveys of hospital sites and preparation of working drawings and specifications "nader supervision for works of a minor character.

Applicants should have passed the Intermediate Examination of the R.I.C.S. in the appropriate sub-division.

Salary scale £645—£940.

Commencing salary above minimum subject to estudate spreparing for professional examinations.

Apply, stating age, qualifications (with dates) and experience, with names of two referees to Secretary. North West Metaponities.

tions.

Apply, stating age, qualifications (with dates) and experience, with names of two referees to Secretary, North West Metropolitan Regional Hosnital Board, 40, Eastbourne Terrace, W.2. ouoting appropriate reference number by 11th May 7317

HORSHAM URBAN DISTRICT COUNCIL Applications are invited for the permanent appointment of CHIEF ARCHITECTURAL ASSISTANT in the Engineer and Surveyor's Department at a salary within Grade A.P.T. III/IV (1906—21,510).

Applicants should hold a final professional qualification and have good general experience, the qualifications and experience of the successful candidate determining the point of entry in the salary scale.

The appointment offer experience in a rapidly developing Urban District with an extensive and varied building programme involving individual treatment for each site and including flats, aged persons accommodation and houses for sale and letting.

The provision of housing accommodation for married applicants will be considered if required. Fully detailed applications giving the names and addresses of two referees must be received by the undersigned not later than 15th May, 1951.

S. ASHTON STRAY.

Clerk of the Council.

CITY OF SHEFFIELD EDUCATION
COMMITTEE
COLLEGE OF TECHNOLOGY
DEPARTMENT OF BUILDING AND CIVIL
ENGINEERING
Applications are invited for the following additional posts which result from the continued development of work, particularly at advanced levels:

Applications are invited for the following additional posts which result from the continued development of work, particularly at advanced levels:—

(1) SENIOR LECTURER IN GENERAL BUILD-ING AND CIVIL ENGINEERING.
Candidates should possess suitable professional qualifications and have had good industrial and teaching experience. The person appointed will be responsible for the organisation and administration of all National Certificate courses in the Department, and will be expected to offer suitable subjects at advanced level.

(2) SENIOR LECTURER IN SURVEYING.
Candidates should possess suitable professional qualifications in Surveying (e.g. membership of R.I.C.S. and/or a degree in Estate Management) and should be capable of teaching Surveying subjects up to final R.I.C.S. examination level. The ability to teach Town and Country Planning and Valuations would be an advantage. Duties will include the administration of existing partime day courses in Surveying and the development of new associated courses.

(3) LECTURER IN CIVIL

AND BUILDING SCIENCE.
Candidates should hold Graduate or equivalent qualifications, and have had suitable industrial or teaching experience. The person appointed will be expected to teach two or more of the subjects. Building Science. Heat, Light and Sound, Principles of Electricity, Hydraulics and Mathematics. In sandwich courses leading to the A.M.I.C.E. and the H.N.D. in Building.

(4) ASSISTANT (GRADE B) to teach Carpentry and Joinery subjects in Craft Certificate and Advanced Craft Certificate courses. Ability to teach Vehicle Building course subjects or Woodcutting Machinists Work will be an advantage.

(5) ASSISTANT (GRADE B) to teach Plumbing subjects in Craft Certificate and Final Craft Certificate and Final Craft Certificate and Sundenting and Plumbing courses to C.G.L.I. examination standards.

(6) ASSISTANT (GRADE A) to teach Plumbing subjects in Craft Certificate and Final Craft Certificate and Final Craft Certificate and Final Craft Certificate and Final Craft Certificate an

gether with teacher training or teaching ex-perience. Salary Scales:— Senior Lecturers: £1,550 × £50—£1,750 per annum.

annum. Lecturers: £1.370 × £35—£1.550 per annum; Assistants (Grade B): £700 × £27 10s.—£1,150 per annum. Assistants (Grade A): £520 × £27 10s.—£1,000 per

Assistants (Grade A): 1.020 × 121 los.—21,000 per annum.

For Assistants there are allowances for approved qualifications, war service, training and industrial experience.

Application forms obtainable from the undersigned (s.a.e.) at P.O. Box 67. Sheffield, 1, should be returned within 14 days of the appearance of this advertisement.

T. H. TUNN, Director of Education.

METROPOLITAN BOROUGH OF ISLINGTON APPOINTMENT OF ARCHITECTURAL STAFF Applications are invited for the following appointments on the permanent staff:—

(a) Two SENIOR ARCHITECTURAL ASSISTANTS (Grade A.P.T. V. 21.310-21.430 p.a.). Plus appropriate London weighting.

(b) Two ARCHITECTURAL ASSISTANTS (Grade A.P.T. III, 2960-21.140 p.a.). Plus appropriate London weighting.

Applicants (not more than 50 years of age) for (a) should be Associate Members of the R.I.B.A. with wide experience including multi-storey housing:

with wide experience including multi-storey housing; (b) should have passed the Intermediate exami-nation of the R.I.B.A. and be suitably ex-perienced orns, returnable by first post on Tuesday, 16th May, obtainable from Borough Engineer and Surveyor, Town Hall, Upper Street, N.I.

H. DIXON CLARK, Town Clerk, 7230

BOROUGH OF FLINT
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT
Applications are invited for the following

Applications are invited for the following appointments:

1. ENGINEERING ASSISTANT.
Salary A.P.T. Grade III (£960-£1,140 per annum). Applicants must have good general municipal engineering experience and preference will be given to holders of an appropriate qualification.

cation.

2. ARCHITECTURAL ASSISTANT.
Salary A.P.T. II (£815—£960 per annum). Applicants should have a good experience in Architectural design and construction.

The appointments are subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, passing of a medical examination and are determinable by one month's notice.

examination and are determinable by one month's notice.

A five-day week is in operation and the Council will provide housing accommodation if required. The Borough of Flint is close to the North Wales seaside resorts and the Council are undertaking an extensive programme of Capital works in respect of central area redevelopment, housing, sewerage, road improvements, Council Offices and Civic Hall.

Applications stating age training qualifications

Civic Hall.

Applications stating age, training, qualifications, details of present and previous appointments, experience and salary, together with copies of two recent testimonials, should reach the undersigned not later than Tuesday, 23rd May, 1961.

Canvassing in any form will disqualify.

WILLIAM MCINTYRE.

Town Hall, Flint. 24th April, 1961.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL ASSISTANT ARCHITECT quired in Architects' Section of Engineer & Surveyor's Department. Salary range £960-£1.310 plus London weighting. Applicants must have Final Examination of R.I.B.A.

R.I.B.A.

Commencing salary for an Architect with five years' experience, including training, will be not less than minimum of Grade A.P.T. IV (£1,140 plus London weighting).

Housing accommodation available.

Applications giving age, experience and two referees, to the Clerk, Council Offices, Sidcup Place, Sidcup, Kent, by Friday, 19th May, 1961.

Place, Sidcup, Kent, by Friday, 19th May, 1961.

NEWCASTLE REGIONAL HOSPITAL BOARD EXPANSION OF ARCHITECTURAL DEPARTMENT

P. H. KNIGHTON, M.B.E. A. R.I.B.A... REGIONAL ARCHITECT
ARCHITECTURAL STAFF

The Board is at present preparing a loyears programme containing a large number and variety of major hospital projects. Planning and building is already current on schemes costing about £15,000,000. As the programme includes also a widerange of buildings which are not peculiar to hospitals, good general experience as well as specialist experience may be gained.

Applications are invited for the following (superannuable) posts:—

1. SENIOR ASSISTANT ARCHITECT (£1,500 × £50 (5)—£1,600).

Open to registered architects with experience in the design and construction of major public buildings. Experience of hospital work desirable but not essential. Assistance with removal expenses if appointee at present in a lower-graded Health Service post.

expenses if appointed at present in a lower glass. Health Service post.

2. ASSISTANT ARCHITECT (£995 × £35 (1) × £45 (6) × £50 (2)—£1,330).

Applicants must have passed the R.I.B.A. Final Examination. For registered architects increments can be given above the bottom of the grade in accordance with relevant practical exceptions.

grade in accordance with relevant practical experience.

Qualified but unregistered architects can enter the Architectural Assistant scale at a salary point of £865 per annum with a view to entering the Assistant Architect grade when registered.

3. ARCHITECTURAL ASSISTANTS (£625 × £30 (8) × £35 (1) -£900).

Intermediate R.I.B.A. and preferably some practical experience.

4. ARCHITECTURAL DRAUGHTSMEN (£475 × £55 (5) × £30 (2) -£685).

Three years' previous experience in an architect's drawing office and good draughtsmanship required.

required.

Evening study facilities available at King's College of Durham University in Newcastle.

Details of training, qualifications, experience, present salary etc., with the names of three referees should reach the Secretary to the Board, Benfield Road, Newcastle upon Tyne 6, not later than 18th May, 1961. Canvassing will disqualify. S7313.

WORCESTERSHIRE COUNTY COUNCIL
ASSISTANT PLANNING OFFICERS
SCALE "A" (£1.365-£1,565)
Two experienced and qualified Planning Officers are required to take charge of schemes for the redevelopment of shopping centres and for town development in connection with Birmingham

Overspill.

Forms of application to be obtained from the County Planning Officer. County Buildings. Worcester, and to be returned to him not later than Thursday, 25th May, 1961. (M.92.) 87289

COUNTY OF ESSEX
EDUCATION COMMITTEE
SOUTH-WEST ESSEX TECHNICAL COLLEGE
AND SCHOOL OF ART

Applications are invited for the following post in the Architecture and Building Department:—
ASSISTANT LECTURER, Grade B in Architecture, to teach Second and Third Year full-time and part-time day students in the School of Architecture, which is acknowledged by the Board of Architectural Education of the R.I.B.A.
Salary within scale £700 × £27 10s. (15) × £37 10s. (1) to £1,150 per annum, plus additions for approved training and graduate qualifications if in accordance with the Burnham Further Education Report. London Allowance (additional to scale salary) £38 or £51 per annum. Increments above the scale minimum will be allowed for war/national service and previous relevant experience.
Apply by letter (no forms) to the Principal, giving details of training qualifications and expegience, together with three recent testimonials or the names and addresses of three referees.

BOROUGH OF HARROW

BOROUGH OF HARROW Applications are invited for the following oppointments in the Borough Engineer's Depart-

appointments in the Borough Engineer's Depart-ment:—
PLANNING ASSISTANTS, A.P.T. Grade II (2815 to £960 p.a. plus London weighting). The commencing salary will be in accordance with qualifications and experience.
A contribution towards removal expenses will

A contribution towards removal expenses will be considered.

The appointments are subject to the Local Government Superannuation Acts; and to the National Joint Council Scheme of Conditions of Service.

Forms of application may be obtained from me and must be returned not later than Friday, 19th May, 1961.

DAVID PRITCHARD, Town Clerk.

Town Clerk's Office, Harrow Weald Lodge, Harrow, Middlesex.

CITY OF PORTSMOUTH
CITY DEVELOPMENT DEPARTMENT
Applications are invited from candidates with
Intermediate A.M.T.P.I. or equivalent for appointment of Development Assistant A.P.T. Grade III
(1960—21,140), commencing salary according to

experience.

Applicants should have a comprehensive know-ledge of Town Planning and experience in Decant.

Consideration will be given to the provision

t.
onsideration will be given to the provision
housing accommodation for successful appli-

cant.
Application forms obtainable from City Development Officer, 1 Western Parade, Portsmouth, to be returned by 29th May, 1961.

a los. assignable terms are open to Ghanajan appli-

Pensionable terms are open to Ghanaian applicants.

In addition, children's allowances are paid up to a maximum of three, and a gratuity at the end of the contract at the rate of £150 for each year of satisfactory service. The entry point is fixed according to qualifications and experience. This salary scale is, however, under review.

The College is fully residential and members of staff are housed in pleasant modern bungalows on the spacious campus; climate and living conditions are good.

Annual leave with three free return passages in four years is granted to members of staff and their families.

Application forms and full information about the Research Group may be obtained from the Assistant Registrar, Kumasi College of Technology, 29. Tayistock Square, London, W.C.I, who will also be glad to answer any questions.

SCHOOL OF ARCHITECTURE, TOWN
PLANNING AND BUILDING
KUMASI COLLEGE OF TECHNOLOGY,
GHANA
Applications are invited for the following posts:
(1) LECTURER STUDIO MASTER IN ARCHITECTURE
(2) LECTURER IN BUILDING SCIENCE.
(3) LECTURER IN BUILDING SCIENCE.
(3) LECTURER IN BUILDING SUBJECTS.
Applicants for post (1) should be Associate Members of the R.I.B.A. or hold an equivalent qualification, preferably with professional experience in the humid tropics. For posts (2) and (3), applicants should have a good honours degree in Building Technology or be Associates of the Institute of Building or hold an equivalent qualification. All applicants must have at least three years professional experience.
At present, the College prepares students for the R.I.B.A. and I.O.B. examinations.
A Building Research Group has been formed within the School and offers members of staff excellent opportunities for individual or group research into local problems.
The Ghana Government intends to establish Kumasi College of Technology as an autonomous University in the very near future, and the structure of the syllabus and the salary scales are at present under review.
Contract appointments are normally for five years and may be renewed. Three months' notice of resignation of an appointment is required on either side.

years and may be an appointment is required on of resignation of an appointment is required on either side.

CONTRACT SALARY SCALE:

£1,202 10s. × £55 to £2,112 10s.

Children's allowances are paid up to three children's allowances are paid up to three children's allowances are fell 20s. for every month of satisfactory service. The entry point is fixed according to qualifications and experience.

The College is fully residential and members of staff are housed in pleasant modern bungalows on the spacious campus; climate and living conditions are good.

Annual leave with three free return passages in four years is granted to members of staff and their families.

Application forms and an Information Brochure may be obtained from the Assistant Registrar, Kumasi College of Technology, 29, Tavistock Square, London, W.C.I, who will also be glad to answer any questions about the appointments.

COUNTY BOROUGH OF DUDLEY
ASSISTANT ARCHITECTS, A.P.T. GRADE V
Vacancies exist for the above permanent
appointments in the Borough Architect's Depart-

ment.
Applicants should be A.R.I.B.A.
Applications, giving the names and addresses
of two Referees, to reach me on refere Tuesday, 9th May, 1961.

P. D. WADSWORTH,

The Council House, Dudley, Worcs, 21st April, 1961.

7238

COUNTY BOROUGH OF HUDDERSFIELD BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT Applications are invited for the following appointments:— (a) ASSISTANT ARCHITECT, Grade A.P. & T. V

(a) ASSISTANT ARCHITECT, Grade A.P. & T. V (£1,310-£1,480).
(b) ASSISTANT ARCHITECT, Grade A.P. & T. III.IV (£960-£1,310).
(c) ASSISTANT QUANTITY SURVEYOR, Grade A.P. & T. II (£815-£960).
(d) TOWN PLANNING ASSISTANT, Grade A.P. & T. III.IV (£960-£1,310).
Applicants for (a) and (b) must be Associate Members of the Royal Institute of British Architects.

Applicants for (a) and (b) must be Associate Members of the Royal Institute of British Architects.

The Department has in hand a large programme of building including the First Phase of a new Civic Centre. Technical Teachers' Training College, including Hostel, Secondary Modern and Primary Schools, Homes for Aged Persons, Abattoir and Cattle Market, etc. The successful applicant for appointment (a) will be expected to take charge of some of these projects and appointment (b) offers an opportunity for a young and enthusiastic Architect to gain valuable experience. Applicants for post (c) must be capable of working-up and assisting with taking-off and should be studying for the professional examinations of the Royal Institution of Chartered Surveyors and preferably have passed the Intermediate Examination.

Applicants for appointment (d) should have had experience in Development Plan work and Development Control procedure and should be Members of the Town Planning Institute.

The posts are subject to the National Scheme of Conditions of Service, as adopted by the Courcil, and to medical examination.

Housing accommodation will be provided, if required.

Applications, with the names of two referees.

Housing accommodation and two referees, Applications, with the names of two referees, should reach S. M. Richmond, F.E.I.B.A., A.M.T.P.I., Borough Architect and Planning Officer, High Street Buildings, Huddersfield, not later than 17th May, 1961.

HARRY BANN.

HARRY BANN. Town Clerk.

Town Hall, Huddersfield.

DESIGNING FOR LONDON

Festival Hall Extension, South Bank Development, Crystal Palace Sports Stadium and new houses, flats, maisonettes, schools, town development schemes (including houses and factories), hostels, youth centres, out county housing, club rooms, shops, supply depots, homes for old people, fire stations, drill towers, pumping stations and sewage works, ambulance stations, maternity and child welfare clinics, health hostels, health training centres, children's homes, reception centres, approved schools, road improvements, and associated architectural works.

Adaptations, modernisation, rehabilitation, improvements.

Have you thought of joining the L.C.C?

■ Unique opportunity to produce buildings for the public service with the highest possible standards of design. ■ Wide range of buildings enables individuals to be used according to their special abilities. ■ Contact with the latest developments and techniques through central materials and development section. ■ Promotion strictly on merit.

■ Design opportunities in accordance with

ability.

Flexible salary reviews within grades.

Permanency after probationary service.

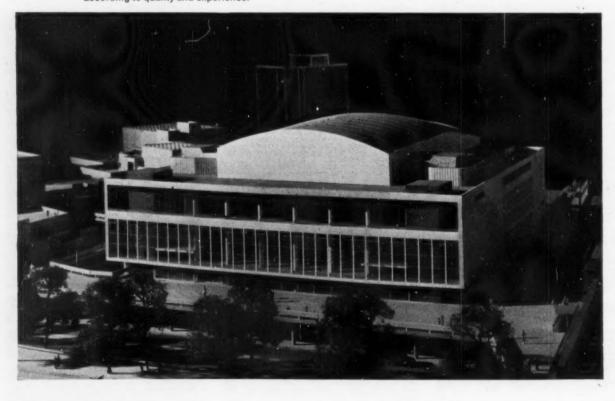
Recognition grants for outstanding work.

Starting salaries for Architects up to £1,500 according to quality and experience.

Whatever changes may result from the Royal Commission Report the enormous programme of work will have to be done and service now with the L.C.C. provides the best training ground for opportunities in the future.

And there is room for a few part-time architects.

Application forms and further particulars from Hubert Bennett, F.R.I.B.A., Architect to the London County Council, County Hall, S.E.1, quoting reference EK/1074/5.



THE UNIVERSITY OF LIVERPOOL
Applications are invited for a RESEARCH
FELLOWSHIP IN ARCHITECTURE AND
TOWN PLANNING available in the School of
Architecture, for post-graduate study (possibly
leading to degree of M.Arch.) of wholesale
markets, in association with Horticultural Marketing Research Council. Salary not less than £1,500
per annum together with allowances for travel
abroad.

abroad.

Applications, stating age, qualifications and experience, together with the names of three referees, should be received not later than 3rd June, 1961, by the Registrar, from whom further particulars can be obtained. Quoting Ref. CV/AJ.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE
OFFICE OF THE COUNTY ARCHITECT
Applications are invited for the following appointments. The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience. Five-day week operated

appointments. The commencing salary will be fixed at a point within the scale commensurate with qualineations and experience. Five-day week operated.

CENTRAL OFFICE, BISHOPGARTH, WAKE-FIELD.

(2) SCENVEYING ASSISTANT, A.P.T. III. Salary range £960-£1,140.

(b) JUNIOR SURVEYING ASSISTANT, A.P.T. II. Salary range £965-£815.

Applicants for (a) should have extensive experience in surveying, levelling and plotting sites, be neat draughtsmen and capable of taking charge of a survey team. Preference will be given to Associate Members of the Royal Institution of Charlered Surveyors.

Applicants for (b) and (c) should have had experience in surveying, levelling and plotting sites and should be neat draughtsmen. Experience in surveying of buildings would be an advantage. HUDDERSFIELD DIVISIONAL OFFICE.

(d) JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. II. Salary range £815-£960.

Applicants should possess a sound knowledge of building construction and be capable of dealing with adaptations to be submitted by the first post on Tuesday, 16th May, 1961, on forms to be obtained from and returned to the undersigned.

A. W. GLOVER, F.R.I.B.A.

Bishopgarth,
Westfield Road,

Bishopgarth, Westfield Road, Wakefield.

Wakefield.

7227

EAST RIDING OF YORKSHIRE COUNTY COUNCIL
Applications are invited for the appointment of a CHIEF QUANTITY SERVEYOR on the staff of the County Architect. The salary will be in accordance with Scale "A" (£1,340-£1,565).

Applicants must be members of the Royal Institution of Chartered Surveyors and have had wide experience in the preparation of estimates, bilk of quantities, cost analysis, adjustment of final accounts and other work incidental to such an appointment, including the control of staff.

Applications giving particulars of age, past and present appointments with salaries, details of experience, together with the names of three referees, should be sent to the County Architect, County Hail. Beverley, not later than Friday, 12th May, 1961. County B

THOMAS STEPHENSON, Clerk of the County Counc

BOROUGH OF WATFORD Applications are invited for the following

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT.
Salary within Grade A.P.T. IV.
(b) ARCHITECTIRAL ASSISTANT.
Salary within Grades A.P.T. II/III.
The assistant appointed to post (a) will be a Section Leader and will carry a considerable amount of responsibility.
Commencing salaries will be commensurate with experience and ability and it may be possible to provide housing accommodation if required.
Applications to be sent to the undersigned as soon as possible.

F. C. SAGE,

F. C. SAGE, Borough Engineer, Surveyor & Architect.

Town Hall, Watford, Herts.

CITY OF LEICESTER EDUCATION
COMMITTEE
LEICESTER COLLEGE OF ART
Princinal: E. E. PULLER, A.R.C.A., F.R.S.A.
Applications are invited from suitable qualified
persons for the following posts at the above
College, duties to commence on lst September,
1961.—

1961:—
1. LECTURER IN THE SCHOOL OF BUILD-ING. Applicants should be Chartered Surveyors in either the Quantity Surveying or Building sections.

meiner the Quantity surveying or Building sections.

2. LECTURER to be responsible for the promotion of standards in all aspects of design in relation to the work of the School of Building and also to act as liaison consultant with the School of Industrial Design.

Salary in accordance with the Burnham Scale, £1.370-£1,530 p.a.

Further particulars and application forms may be obtained from the Registrar at the College. The Newarke, Leicester.

BOROUGH OF SOUTHGATE BOROUGH ENGINEER AND SURVEYOR'S ARCHITECTURAL AND ENGINEERING APPOINTMENTS

APPOINTMENTS
Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:
(a) ASSISTANT ARCHITECT, A.P.T. Grade

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:

(a) ASSITANT ARCHITECT, A.P.T. Grade IV, £1,140-£1,310 plus London weighting.
(b) ASSITANT ARCHITECT, A.P.T. Grade III, £950-£1,140 plus London weighting.
(c) ENGINEERING ASSISTANT, A.P.T. Grade IV, £1,140-£1,310 plus London weighting.
(d) ENGINEERING ASSISTANT, A.P.T. Grade IV, £1,140-£1,310 plus London weighting.
(d) ENGINEERING ASSISTANT, A.P.T. Grade III, £815-£950 plus London weighting.

He above posts are superannuated and established, and the starting salary will be fixed in accordance with qualifications and experience. Applicants for posts (a) and (b) should be Associates of the Royal Institute of British Architects, or hold other equivalent qualifications. Applicants for post (c) must be Corporate Members of the Institution of Civil Engineers, or hold the Testamur of the Institution of Municipal Engineers.

Housing accommodation will be available if required.

Forms of application may be obtained from the Borough Engineer and Surveyor, and should be returned to the undersigned not later than 12 noon on Monday, 15th May, 1961.

Canvassing, directly or indirectly, will be a disqualification.

GORDON H. TAYLOR, Town Clerk.

GORDON H. TAYLOR. Town Clerk.

Town Hall. Palmers G London, April, 1961.

COUNTY BOROUGH OF SUNDERLAND Applications are invited for the following posts in the Borough Architect's Department:—
(a) SENIOR ARCHITECTS, A.P.T. IV/V

in the Borough Archives

(a) SENIOR ARCHITECTS, A.P.T. IV/V

(C1.149-£1,480).

(b) SENIOR ARCHITECTURAL ASSISTANTS, A.P.T. I/II (£645-£960).

(c) JUNIOR ARCHITECTURAL ASSISTANTS, General Division (£250-£650).

Commencing salaries in (a) and (b) according to qualifications and experience, and in (c) to age and experience. Application forms obtainable from Borough Architect, Grange House, Stockton Road, Sunderland, which, on completion, must be returned to me not later than 19th May, 1961. Canvassing will disqualify.

G. S. McINTIRE, Town Clerk.

BOROUGH OF GOSPORT
APPOINTMENT OF ARCHITECTURAL
ASSISTANT (TEMPORARY)
Applications are invited for the above appointment in the Architectural Section of the Borough Engineer's Department.
The successful applicant will be required to work on general architectural duties and the salary would be on the A.P.T. II Scale (2815 rising to £960 by four annual increments of £30 and one of £25). The commencing salary will be according to the experience of the applicant.
A Casual User Car Allowance will be paid.
Applications should be addressed to the undersigned and should reach me not later than Monday, 22nd May, 1951, together with the names and addresses of two referees.

EDWARD ADDENBROOKE.
Town Hall.

Town Hall, Gosport. 21st April, 1961.

METROPOLITAN POLICE
RECEIVER'S OFFICE
Applications are invited for the following positions in connection with the design and erection of Police Housing, Police Stations, Single Men's Hostels, Cadets' Residential Training Centres and Magistrates' Courts within the Metropolitan Police District and schemes for major alterations to various Police buildings.
ASSISTANT ARCHITECTS
Salary: 6991 p.a at age 25, rising by annual increments to £1,490 p.a. (Maximum salary on entry £1,318 p.a. at age 36 or over.)
Qualifications: Must be registered Architects.
LEADING ARCHITECTURAL ASSISTANTS
Salary: £1,048 p.a. rising by annual increments to £1,220 p.a.

Salary: £1,048 p.a. rising by annual increments to £1,220 p.a. Qualifications: Intermediate R.I.B.A., H.N.C. or

Chief Architect & Surveyor.

Links Balary: 638 p.a. at age 21 rising by annual increments to £1,048 p.a. (Maximum salary on entry £960 p.a. at age 28 or over.)

Qualifications: O.N.C. Intermediate R.I.B.A. or equivalent.

TECHNICAL ASSISTANTS III

Salary: £782 p.a. at age 21 rising by annual increments to £1,043 p.a. (Maximum salary on entry £939 p.a. at age 28 or over.)

Qualifications: Intermediate R.I.B.A./R.I.C.S. (Building) or equivalent.

J. INNES ELLIOTT. B.Arch., F.R.I.B.A., Chief Architect & Surveyor.

Apply to: Chief Clerk, Architect & Surveyor's Department, New Scotland Yard, S.W.I.

SCHOOL OF ARCHITECTURE TOWN
PLANNING AND BUILDING
KUMASI COLLEGE OF TECHNOLOGY,
Applications are invited for the following
post:

Applications are invited for the following post:

LECTURER IN TOWN PLANNING
Applicants should be Associate Members of the Town Planning Institute, and additional qualifications in Sociology and Geography would be valuable. At the moment, the College prepares students for the examinations of the Town Planning Institute; the Ghana Government intends to establish the College as an autonomous University in the very near future, and the structure of the present syllabus and the salary scale given below are under review.

A Building Research Group has been formed within the School and offers members of staff excellent scope for research into local problems. Contract appointments are normally for five years and may be renewed. Three months notice of resignation of an appointment is required on either side.

years and may be renewed. Three months nouce of resignation of an appointment is required on either side.

Contract salary scale: £1.295 × £70-£2.275.

Children's allowances are paid up to two children and a gratuity is paid at the end of the contract at the rate of £12 10s. for every month of satisfactory service. The entry point is fixed according to qualifications and experience.

The College is fully residential and members of staff are housed in pleasant modern bungalows on the spacious campus; climate and living conditions are good.

Annual leave with three free return passages in four years is granted to members of staff and their families.

Application forms and an Information Brochure may be obtained from the Assistant Registrar, Kumasi College of Technology. 29, Tavistock Square, London, W.C.1, who will also be glad to answer any questions about this appointment.

METROPOLITAN BOROUGH OF ISLINGTON ROROUGH ENGINEER AND SURVEYOR'S DEPARTMENT
Applications are invited from persons not more than 50 years of age for the following appointments on the permanent staff.

(a) One TECHNICAL ASSISTANT, A.P.T. III (2560—51.140) plus London weighting.
(b) One SURVEYING ASSISTANT, A.P.T. III (15960—51.140) plus London weighting.
Applicants for:

(a) and (b) should have the Intermediate examination of the Municipal Engineers or Chartered Surveyors or other appropriate qualifications, and preference will be given to applicants with a sound knowledge of the Town and Country Planning Acts and London Building Acts.
Application forms, returnable by first post on Tuesday, 16th May, 1961, obtainable from Mr. C. N. Cowney, Borough Engineer and Surveyor, Town Hall, Upper Street, N.1.

H. DIXON CLARK, Town Clerk. 72553
HUYTON-WITH-ROBY URBAN DISTRICT

HUYTON-WITH-ROBY URBAN DISTRICT
COUNCIL
(Population-65,000)
Applications are invited for the appointment of a CHIEF ASSISTANT ARCHITECT at a salary in accordance with N.J.C.-A.P.T. V, £1,310 to £1,460.

£1,480.
Candidates must be Associates of the Royal Institute of British Architects. They should have considerable experience in the design of public buildings and handling technical administration. Housing accommodation will be provided if re-

quired.

Applications stating age, present position, salary and date of appointment, details of experience and previous appointments, with dates, together with names and addresses of two referees to reach R. T. Chappelle, A. R. I. B. A., Architect and Housing Director, "Grasscroft," Archway Road, Huyton, by Wednesday, 24th May, 1961.

D. WILLGOOSE, Clerk of the Council.

Council Offices. Derby Road. Huyton.

BOROUGH OF CHATHAM Applications are invited for the following

applications are invited for the following pointments:

1. ASSISTANT ARCHITECT—from profession-ally qualified and suitably experienced persons. Salary within A.P.T. IV (21,140—

2. ARCHITECTURAL ASSISTANT—from suitably experienced persons. Salary within

2. ARUHITEUTURAL ASSISTANT—from suitably experienced persons. Salary within A.P.T. III (£960—£1,140).
Applications, with the names and addresses of two referees, should be delivered to Mr. J. A. T. Richards. Borrough Engineer and Surveyor, Town Hall, Chatham, not later than Saturday, 20th May 1661.

Richards, Borough Engineer and Raturday, 20th Hall, Chatham, not later than Saturday, 20th Hall, Chatham, not later than Saturday, 20th Housing Accommodation WILL BE AVAILABLE IN APPROPRIATE CASES. The appointments will be (a) in accordance with the National Scheme of Conditions of Service, (b) terminable by one month's notice on either side, and (c) superannuable, subject to satisfactory medical report.

In accordance with their usual practice the Council will require the successful candidates to give an undertaking to remain in the Council's service for two years.

ROWLAND NEWNES, Town Clerk.

UNIVERSITY OF HONG KONG ASSISTANT LECTURESHIP IN ARCHITECTURE

ASSISTANT LECTURESHIP IN
ARCHITECTURE
Applications are invited for the above-mentioned post. Applicants should have a degree from a University recognised by the Royal Institute of British Architects and should be A.R.I.B.A.
The successful applicant will be required to teach basic architectural techniques in the First Year, including draughtsmanship, perspective skiagraphy, lettering and colour theory, and some evidence of an ability to do this should be submitted with applications. The ability to offer courses in some specialised aspect of architecture will be an additional consideration.

Annual salary (superannuable) is: £1,375 × £50 - £1,525 for a man or £1,640 × £40 - £1,550 for a woman. There is also an expatriation allowance of £25 a year if applicable. Salaries are under review. The equivalent of income tax in the First Class sea passages are provided for expatriate staff and their families.

review. The equivalent of hechoe Colony is comparatively low.

First Class sea passages are provided for ex-patriate staff and their families on first appoint ment and leaves. Accommodation at reasonable rental is provided for those receiving expatriation

allowance.
Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 36 Gordon Square, London, W.C.L.

Applications close, in Hong Kong and London, on 22nd June. 1961 7266

Applications, close, in frong kong and London, on 22nd June. 1961.

CITY OF GLASGOW
ASSISTANT ARCHITECTS
The Architectural and Planning Department has a number of vacancies for qualified assistant architects.
The Department has in hand a large, varied and interesting programme of work, including Comprehensive Redevelopment, Multi-storey Flats, Schools and Civic Buildings. The work will provide scope for personal initiative in the preparation of designs and details of schemes upon which construction work will follow.
The salary scale for these assistantships is up to £1,560 with placing according to experience.
A five-day week is in operation.
Advances up to 100 per cent, of valuation will be made available, where needed, for the purchase of suitable houses in or near Glasgow, by successful applicants.
Form of application may be obtained from the Frincipal Administrative Officer, 20 Trongate, Glasgow, C.i.

C.L. A. G. JURY,
City Architect and Director of Planning
8726

COUNTY BOROUGH OF ROTHERHAM SENIOR ASSISTANT ARCHITECT
Applications are invited for the appointment of a Senior Assistant Architect, A.P.T. V (£1,510-£1,490).

The department has a varied and interesting programme of architectural work, including schools and central redevelopment area, and candidates are required to be Associate Members of the R.I.B.A. with good general experience in design and construction. The commencing salary in the grade will be according to capabilities and experience.

Housing accommodation will be available if necessary.

Housing accommodation with recessary.

Applications to be endorsed "Senior Assistant Architect," stating age, qualifications and details of experience, together with names of two referees, should be received by me not later than Wednesday, 10th May, 1961.

Canvassing will disqualify.

JOHN S. WALL,

Town Clerk.

Municipal Offices, Rotherham. April, 1961.

April. 1961.

BERSTON AND STAPLEFORD URBAN DISTRICT COUNCIL.

ASSISTANT ARCHITECT, Grade A.P.T. 111/IV Applications from suitably qualified persons, accompanied by the names of two referees, should be forwarded to the Housing Architect. Town Hall. Beeston, Nottingham, within 14 days. Commening salary according to qualifications and exoerience.

Housing accommodation will be made available, if necessary.

H. D. JEFFRIES, Clerk of the Council.

Town Hall, Beeston.

Town Hall.

Beeston.

7286

INVESTIGATOR OR SENIOR INVESTIGATOR

(ARCHITECTURAL)

ROYAL COMMISSION ON ANCIENT AND
HISTORICAL MONUMENTS OF SCOTLAND
Pensionable post for man or woman as (a)
Investigator or (b) Senior Investigator according
to age, qualifications and experience. Age on
1st May. 1961, for (a) at least 22 and normally
under 35, for (b) at least 22 and normally
under 35, for (b) at least 22 and normally
inder 35, for (b) at least 23 and normally
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under 36, for (b) at least 25 and normally
under 36, for (c) at least 25 and normally
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architectural drawing and interest in history

BOROUGH OF HAMMERSMITH
ARCHITECTURAL APPOINTMENTS
ASSISTANT ARCHITECT (A.P.T. V. £1,355—
£1,525 p.a.). Applicants must be A.R.I.B.A. or hold equivalent qualification.
ARCHITECTURAL ASSISTANTS (A.P.T. IV. £1,185—£1,355 p.a.). Intermediate R.I.B.A. essential. Preference will be given to applicants who have passed Part 1 or 2 of the R.I.B.A. Final examination or have satisfactorily completed a course at a school of architecture.
DRAUGHTSMAN OR TRACER (male or female). Starting salary according to age. G.C.E. qualification and experience, between £515 and £615 p.a. at 22 and rising to £820 p.a. if suitably qualified.
The Department is engaged in varied and interesting works, including multi-storey flats in tall blocks, public buildings and depots.
Application forms for these appointments (returnable by 22nd May) from Town Clerk, Town Hall, Hammersmith, W.6.
S7293
BOROUGH OF HESTON AND ISLEWORTH

BOROUGH OF HESTON AND ISLEWORTH APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT Applications are invited for the permanent appointment of a Senior Architectural Assistant in the Borough Engineer and Surveyor's Department. Salary in accordance with A.P.T. Grade IV (21,140-£1,310, plus London weighting). Applicants must have had good experience in architectural design and building work under construction, and, other things being equal, preference will be given to applicants who have passed the examination for Associate R.I.B.A. or hold a University Degree or Diploma in architecture accepted by that Institute. The Council is unable to assist the successful candidate with housing accommodation. Applications are to be submitted by 22nd May, 1961, on forms to be obtained from and returned to the Borough Engineer and Surveyor, 88 Lampton Road, Hounslow.

D. MATHIESON,

D. MATHIESON, Town Clerk.

Town Hall, Hounslow, Middlesex. 87292

WEST SUFFOLK COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the post of ASSISTANT ARCHITECT within Grade A.P.T. IV-V
(21,140-21,480 per annum).
Applicants must be qualified Architects and
preferably have experience in Local Authority
work

work.

The department offers varied and interesting experience on Educational, Police and Health programmes.

N.J.C. Service Conditions; post pensionable; medical examination.

A five-day week is in operation; housing accommodation may be made available.

Application forms obtainable from the County Architect, 13 Westgate Street, Bury St. Edmunds. to be returned as soon as possible.

87299

Architect, 13 Westgate Street, Bury St. Edmunds. to be returned as soon as possible. S7299

METROPOLITAN BOROUGH OF BERMONDSEY

Applications are invited from persons under 51 years of age for the following temporary appointments.

SENIOR ASSISTANT ARCHITECT required for about two years to design a Public Baths and later to lead a small group in the preparation of working drawings and specifications. Applicants must be qualified by examination as Associates of the R.I.B.A. Salary up to £1,555 per annum according to qualifications and experience.

ASSISTANT IN ARCHITECT'S SECTION. Applicants must have passed Intermediate examination of R.I.B.A. or R.I.C.S. and have experience in surveying old housing properties and preparing conversion and improvement schemes. Salary at a point in A.F.T. III or IV (£960—£1,510) plus London weighting according to experience.

Applications for both appointments should be addressed to Borough Engineer and Surveyor, Municipal Offices. Sp. Road, S.E.16.

\$\frac{1}{2}\$ ARCHITECTURAL ASSISTANT

ARCHITECTURAL ASSISTANT BRITISH TRANSPORT DOCKS invit RRITISH TRANSPORT DOCKS invite applications for an Architectural Assistant at SOUTHAMPTON DOCKS. Candidates should be experienced in design and construction of industrial and office buildings by contract or direct labour and must be A.R.I.B.A. Ability to handle contracts direct with contractor. Commencing salary £1,175 per annum. Contributory Superannuation Scheme and certain rail travel facilities.

ties.

Applications, giving age, experience, qualifications and present position, to be forwarded to
Staff and Establishment Officer. British Transport Docks (A), Melbury House, Melbury Terrace,
London, N.W.1., to arrive not later than Thursday,
11th May, 1961.

DRAUGHTSMAN OR WOMAN in Department of Geography, Queen Mary College (University of London), Mile End Road, E.I. Skilled draughtsmanship and experience in dealing with maps essential. Salary placing on Senior Technician scale £690 × £25 — £315 p.a. according to ability, with London Weighting up to £45. Supplement for certain qualifications. Four weeks annual leave. Pension Scheme. Handwritten letters only to Registrar (GST) stating age. education, details of past and present work, and names of two persons to whom reference can be made.

CITY OF LEICESTER
CITY ARCHITECT'S DEPARTMENT
Applications are invited from Architects for the
following:
CHIEF ASSISTANT, Scale C, £1,560—£1,825,
GROUP LEADERS, Scale A, £1,340—£1,565,
SENIOR ASSISTANTS, A.P.T. IV/V, £1,140—
£1,430

ASSISTANTS, A.P.T. III/IV, £960—£1,310. ARCHITECTURAL ASSISTANT, A.P.T. II, £815

ARCHITECTURAL ASSISTANT, A.P.T. II, £815—1960.
Housing accommodation provided in appropriate cases. Five-day week in operation. Modern office accommodation.

The Department, organised on a group basis to encourage team-work, is being expanded to deal with an increased building programme and to carry out research into building methods and costs. The current building programme includes: Schools, Colleges of Further Education, Central Swimming Baths, Hostels, Youth Centres, Community Centres, Specialist Centres for Handicapped Persons, Housing and Central Area Re-Development Schemes including Markets, Bus Stations, etc.
Leicester, as a member of the Consortium of

Leicester, as a member of the Consortium of Local Authorities (CLASP) is engaged on research and development work on buildings of advanced design.

design.

Applications from qualified persons by May 15th stating post applied for, grade and salary required with names of two referees to: J. H. Lloyd Owen, B.Arch., F R.I.B.A., City Architect, 10 Loseby Lane, Leicester.

AIR MINISTRY requires QUANTITY SUR-VEYING ASSISTANTS, Grade III, at R.A.F. and Ministry of Aviation stations throughout the United Kingdom. The work includes abstracting and billing, site measurement and preparation of

and filling, sie measurement and preparation of estimates. Salary, which is dependent upon age, qualifi-cations and experience, ranges from £726 (age 25) to £961 m.ximum in Grade III. There are pension prospects and also opportunities of ad-vancement to numerous posts in the higher grades,

rechnical Grade II: 4961—£1,098 123 posts
Technical Grade I; £1,098—£1,348 42 posts
Technical Grade I; £1,098—£1,348 42 posts
Technical Grade B: £1,348—£1,522 6 posts
Technical Grade B: £1,348—£1,522 6 posts
Technical Grade A: £1,439—£1,697 6 posts
Vacancies occurring in the higher grades are, as a rule, filled by promotion of existing staff.
Overseas tours for which special allowances
ranging at present up to £1,800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher qualifications. Five-day week with 18 days paid leave a year initially.

Applicants who must be natural born British subjects, must hold O.N.C. (Building or Builders Quantities) or equivalent and have had good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. Schedule an advantage. Forms from Manager (P.E.), Ministry Allows and Cartini expenses reimbursed. Only applicants selected for interviewed in Air Ministry. London, and certain expenses reimbursed. Only applicants selected for interview will be advised.

METROPOLITAN BOROUGH OF HACKNEY

METROPOLITAN BOROUGH OF HACKNEY ENGINEER AND SURVEYOR'S DEPARTMENT Applications are invited for the following ermanent appointments in the Architectural

permanent appointments in the Architectural Section:

(a) ASSISTANT ARCHITECT

(i)—A.P.T. IV (£1,140—£1,310 p.a.).

(ii)—A.P.T. III (IV (£660—£1,310 p.a.).

(b) ARCHITECTURAL ASSISTANT

(ii)—A.P.T. III (£665—£650 p.a.).

(c) JUNIOR ARCHITECTURAL ASSISTANT—

Candidates for (a) must have passed the Final Examination of the R.I.B.A., for (b) (exxept (fi) must have passed the Intermediate Examination of the R.I.B.A. or its equivalent; and for (c) should be students of the R.I.B.A. or Probationers. London Weighting allowance payable in addition (£45 p.a. for A.P.T. III posts and above). Commencing salaries according to training, qualifications and experience. Modern staff canteen: alternate Salurdays; post-entry training facilities; possible 100% advances for house-purchase. Anolication forms from Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 12th May, 1961.

COUNTY BOROUGH OF GREAT YARMOUTH
SCHOOLS ARCHITECT'S DEPARTMENT
Applications are invited from Associate Members of the R.I.B.A. for the appointment of
MINOR WORKS ARCHITECT at a salary within
APTIV 21.140 to 21.310 per annum. A car
allowance of 21.35 per annum is also payable.
The successful applicant will be required to
take charge of the Minor Works Section.
Assistance with removal expenses may be made
in suitable cases.
Full details of present and past appointments,
age, qualifications and experience, together with
the names of two referees, should reach the
Schools Architect. 22 Euston Road. Great Yarmouth, by 24th May, 1951.

G. PARROW
Chief Education Officer.

22 Euston Road. Great Yarmouth.

BOROUGH OF BACUP
ARCHITECTURAL ASSISTANT
Applications are invited for the above appointment in the Borough Engineer's Department.
Salary A.P.T. III (£950-£1,140). Preference will be given to candidates who have passed Parts I and 2 of the R.I.B.A. Examination or equivalent. The post offers special experience in the spheres of Central Area. Re-Development and Industrial and Residential Development.
Housing accommodation will be provided, if necessary.
Application forms obtainable from me. Closing date, 27th May, 1961.

Municipal Offices, Bacup.

CITY OF SHEFFIELD
CITY ARCHITECT'S DEPARTMENT
Enthusiastic and imaginative architects possessing drive and determination are invited to apply for the following posts on the permanent staff of the City Architect, Mr. J. L. Womersley.
(a) SENIOR ASSISTANT ARCHITECTS
Grade A.P.T. IV (£1,140-£1,510).
(b) ASSISTANT ARCHITECTS
Grade A.P.T. III-IV (£950-£1,510).
Opportunities are available for work on large scale schemes of redevelopment and new development and on challenging schemes of urban re-newal.

newal.

Assistants are urgently required for the Education and General Section which is responsible
for an expanding and interesting programme of large and important civic buildings, including the Town Hall Extensions, colleges, schools, libraries, art galleries, old people's and children's
homes, fire and police stations, health centres
and clinics.

ilbraries, art galleries, old people's and children's homes fire and police stations, health centres and police stations, health centres and police stations, health centres definition of the control of

JOHN HEYS. Town Clerk.

LANCASHIRE COUNTY COUNCIL
DEPUTY ASSISTANT PLANNING OFFICER
required in the Development Section at Headquarters; salary J.N.C. Grade 'C' (£1,560—
£1,825).

quarters; salary J.N.C. Grade C (£1,560—21,825).

This officer will, through the Assistant County Planning Officer, assist in the execution of policy relating to Development Plan preparation, submission and modification and appropriate coordination with outstationed offices.

Experience is required in the reception of overspill population and experience of urban regionstruction schemes would be an advantage. Applicants must have a sound knowledge of general planning and development legislation and experience of development control procedure, consultation and administration.

Candidates should have an appropriate University degree and/or one or more of the following qualifications—A.R.I.C.S., A.M.I.C.E., A.M.I. Mun.E., A.M.T.P.I.

Applications stating age, qualifications, present appointment, experience and two referees to the County Planning Officer (S), East Cliff County Offices, Preston, by the 11th May, 1961, in envelopes marked D.A.P.O.'

HALLSHAM RURAL DISTRICT COUNCIL

HAILSHAM RURAL DISTRICT COUNCIL
SECOND ARCHITECTURAL ASSISTANT
AMENDED ADVERTISEMENT
Assistants who have passed Parfs I and II of
the R.I.B.A. Final or its equivalent are invited
to apply for this appointment, involving the
design of new buildings and an interesting range
of architectural work.
The salary will be within Grade A.P.T. III
(2560-£1,140) commencing at a point commensurate with the applicant's qualifications and
experience.
The appointment is superannuable and architectural

experience.

The appointment is superannuable and subject to the National Scheme of Conditons of Service. A car allowance will be paid and a five-day week is in operation.

Applications by letter giving information which will assist in the selection of the most suitable person, together with the names and addresses of two referees, should reach the undersigned not later than 19th May, 1961.

A CARR

Clerk to the Council.

Cortlandt. Hailsham, Sussex.

EAST SUSSEX COUNTY COUNCIL COUNTY PLANNING DEPARTMENT PLANNING ASSISTANT required in Area Planning Office at Crowborough. Scale A.P.T. III (2960 to 61.140 per annum). Particulars and application forms obtainable from County Planning Officer. County Hall, Lewes, Sussex, to be returned by the 17th May. 1961.

HAILSHAM RURAL DISTRICT COUNCIL
ARCHITECTURAL ASSISTANT
Grade II (2815—2960)
Applications are invited for this post from assistants who have passed the R.I.B.A. Intermediate examination, The Council's building programme includes new housing conversions and improvements to older houses together with close collaboration with the Engineers on road and sewer work.
The appointment is superannuable and subject to the National Scheme of Conditions of Service and a car allowance will be paid.
Commencing salary will not necessarily be at the bottom of the scale. Prospects of upgrading if the person appointed completes his studies to become a full member of the R.I.B.A.
Details of training, experience and previous appointments should be sent to the undersigned, together with the names and addresses of two referees, not later than 19th May, 1961.

A. CARR.
Certlandt,
Hailsham,

Cortlandt, Hailsham, Sussex.

Sussex. 7324

CITY OF LEICESTER EDUCATION

COMMITTEE

LEICESTER COLLEGE OF ART

Principal: E. E. PULEE, A.R.C.A. F.S.A.E.

SCHOOL OF ARCHITECTURE

Applications are invited from holders of a Degree or Diploma of a recognised School of Architecture, or from Associate Members of the R.I.B.A. for a POST-GRADUATE RESEARCH

FELLOWSHIP IN ARCHITECTURE tenable at the School of Architecture, Leicester College of Art, for advanced work in Architecture. The holder of the Fellowship, which is for a period of up to three years, will be paid on the Burnham Scale, Grade B.

Further details may be obtained from the Registrar, Leicester College of Art, The Newarke, Leicester.

STATES OF GUERNSEY

Leicester. 7322

STATES OF GUERNSEY
STATES ENGINEER'S DEPARTMENT
Applications are invited from suitably qualified
persons for the following appointments in the
States Engineer's Department, which has in hand
a varied and interesting programme of work.

(1) QUANTITY SURVEYOR. Salary scale
£1,180-£1,450 (subject to review).
Applicants for this post should be qualified
Quantity Surveyors and fully conversant
with the preparation of bills of quantities,
specifications, pricing and the settlement
of accounts. This is a new appointment and
the successful applicant will be required to
organise the work of this section of the
department.

the successful applicant will be required to organise the work of this section of the department.

(2) ARCHITECTURAL ASSISTANTS. Salary scale £780-£1,100 (subject to review). Applicants for these posts should have bassed the Intermediate Examination of the R.I.B.A.

All appointments are to the Established Staff and subject to the States of Guernsey Conditions of Service, one month's notice on either side and the passing of a medical examination. Commencing salary in each case will be according to qualifications and experience. Particulars of pension and the transfer of pension rights under the Local Government Superannuation Acts are obtainable on application, Houses will be made available in appropriate cases and removal expenses refunded.

Applications, stating age, qualifications, present and previous appointments, experience and the names of two referees, should be sent to the States Supervisor, States Office, Guernsey, C.I., not later than the 22nd May, 1961.

BOROUGH OF WIMBLEDON.

BOROUGH OF WINBLEDON
ARCHITECTURAL DRAUGHTSMAN, Grade
A.P.T.II, 2815 to \$960 plus London Weighting.
Form of Application from Borough Engineer and
Surveyor, Town Hall, Wimbledon, S.W.19, Returnable by 15th May, 1961. Canvassing disqualifies,

COUNTY BOROUGH OF WEST BROMWICH
BOROUGH SURVEYOR'S DEPARTMENT
Applications are invited for the following
appointments:—SENIOR ASSISTANT ARCHITECT, Salary
A.P.T. IV (£1,140 to £1,310 per annum),
ARCHITECTURAL ASSISTANTS. Salary A.P.T.
I (£645 to £815 per annum)
N.J.C. Conditions of Service, and a five-day
week.

week.
Applications, naming two referees, to the undersigned by 15th May, 1961.
W. H. GREENWOOD, Borough Surveyor.

Town Hall,

West Bromwich.

CITY OF PETERBOROUGH

Applications are invited from qualified Architects with Local Government experience for the appointment of a SENIOR ASSISTANT ARCHITECT in Grade IV. A.P. & T. (£1.146 to £1.310 by three increments), together with fixed car allowance of £108 per annum. Housing accommodation, if desired, will be provided.

Forms of application from City Engineer, Town Hall, Peterborough, Closing date for applications: 19th May, 1961.

C. PETER CLARKE,

Town Clerk.

Town Hall, Peterborough. April, 1961.

STEVENAGE DEVELOPMENT CORPORATION
Applications are invited for the post of ASSISTANT LANDSCAPE ARCHITECT in the Chief
Architect's Department on New Towns' Salary
Grades APT.II 2815/2960 or APT.III 2960/21.140
according to experience and qualifications but
candidates should have passed the Intermediate
examination of the Institute of Landscape
Architects.

Architects.

The work entailed is of an interesting nature and includes the treatment of Radburn type housing development amongst other projects. Housing accommodation will be available in due coarse in an appropriate case.

Applications, giving full details and names of two referees, to be sent to the Chief Administrative Officer, Daneshill House, Dapestrete, Stevenage, Herts., not later than Friday, 19th May. 1961.

of two referees, to be sent to the Chief Administrative Officer, Daneshill House, Danestrete, Stevenage, Herts., not later than Friday, 19th May, 1961.

Total Invernment of the County Architect's Department as follows:

(a) 1 FIRST ASSISTANT ARCHITECT—Salary Scale £1,135—£1,200 per annum.

(b) 2 SECOND ASSISTANT ARCHITECTS—Salary Scale £50—£1,150 per annum.

(c) 1 THIRD ASSISTANT ARCHITECTS—Salary Scale £50—£1,150 per annum.

Applicants for appointments (a) and (b) must be fully qualified. Appropriate placing on salary scale swill be given in accordance with qualifications and experience. Housing accommodation may be made available if required. Applicants for applications, together with the names and addresses of three referees to the County Clerk, County Buildings, Ardross Street, Inverness, by 12th May, 1961.

GLAMORGAN COUNTY COUNCIL Invite applications for:

(a) ASSISTANT PLANNING OFFICER for Eastern Area Office at Pontypriid.

(b) PLANNING ASSISTANT at County Hall, Cardiff,
Salary for (a) and (b) £1,40—£1,310 p.a. A lodging allowance will be paid in certain circumstances, and a car allowance will be payable in the case of appointment (a).

Applicants are required to have passed the final examination of the Town Planning Institute or other approved Professional Body or to be University Graduates, and in each case to have had five years' experience, including the period spent on theoretical training.

Applications stating age, qualifications and exverience to the County Surveyor and Planning Officer. County Hall, Cardiff, and the County Learning Officer. County Hall, Cardiff, and the County Learning Officer. County Hall, Cardiff, and ceverience to the County Surveyor and Planning Officer. County Hall, Cardiff, and the County Learning.

RICHARD JOHN, Clerk of the County Council

COUNTY BOROUGH OF BARROW-INFURNESS
BOROUGH ENGINEER & SURVEYOR'S
DEPARTMENT
TECHNICAL STAFF
Applications are invited for the following
osts:—

Applications are invited for the following posts:—

(a) PRINCIPAL ASSISTANT ARCHITECTS (2) Grade V. £1,310—£1,480.

(b) TOWN PLANNING ASSISTANT (REDEVELOPMENT) Grade IV-V. £1,40—£1,480.

(c) HEATING ENGINEER Grade V. £1,310—£1,480.

(d) QUANTITY SURVEYOR Grade V. £1,310—£1,480.

In each case commencing salary within the limits indicated.

Housing accommodation available. Five-day week.

Housing accommodate week.

Full details of posts and forms of application available from Borough Engineer and Surveyor.

Closing date—26th May, 1961.

LAWRENCE ALLEN, Town Clerk.

Town Hall, Barrow-in-Furness.

Architectural Appointments Vacant

per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

RONALD WARD AND PARTNERS invite applications from ARCHITECTS. Senior and Junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability, Non-contributory Pension and Life Insurence schemes. Five-day week. Pleasant offices. Apply 29, Chesham Place, Belgrave Square, London, S.W.I. Tel.: BELgravia 3361.

TC2960

2950-21.500.

TARTS with imagination and designing ability required to assist with large and important new developments in the central London Ares.

Telephone or write: Trehearne & Norman, Preston & Partners, 83, Kingsway, W.C.2.

HOLborn 4071.

YORKE, ROSENBERG AND MARDALI. Some vacancies for experience STAFF, starting salary according to qualifications and experience, in the range £950-£1,200. Ring AMBassador 4521 for appointment. TC6200

UNIVERSITY OF HONG KONG
ASSISTANT LECTURESHIP IN
APPlications are invited for the above-mentioned post. Applicants should have a degree from a University recognised by the Royal Institute of British Architects and should be A.R.I.B.A.
The successful applicant will be required to teach basic architectural techniques in the First Year, including draughtsmanship, perspective skiagraphy, lettering and colour theory, and some evidence of an ability to do this should be submitted with applications. The ability to offer courses in some specialised aspect of architecture will be an additional consideration.
Annual salary (superannuable) is: £1,375 × £50 -£1,525 for a man or £1,040 × £40 -£1,160 for a woman. There is also an expatriation allowance of £225 a year if applicable. Salaries are under review. The equivalent of income tax in the Colony is comparatively low.
First Class sea passages are provided for expatriate staff and their families on first appointment and leaves. Accommodation at reasonable rental is provided for those receiving expatriation allowance.
Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 36 Gordon Square, London, M.O.L.
Applications close, in Hong Kong and London, 220d

Applications close, in Hong Kong and London, on 22nd June. 1961 7266

CITY OF GLASGOW

ASSISTANT ARCHITECTS

The Architectural and Planning Department has a number of vacancies for qualified assistant architects.

The Department has in hand a large, varied and interesting programme of work, including Comprehensive Redevelopment, Multi-storey Flats, Schools and Civic Buildings. The work will provide scope for personal initiative in the preparation of designs and details of schemes upon which construction work will follow.

The salary scale for these assistantships is up to £1,550 with placing according to experience.

A five-day week is in operation.

Advances up to 100 per cent, of valuation will be made available, where needed, for the purchase of suitable houses in or near Glasgow, by successful applicants.

Form of application may be obtained from the Principal Administrative Officer, 20 Trongate, Glasgow, C.1.

City Architect and Director of Planvisor

C.1. A. G. JURY.
City Architect and Director of Planning.
S7266

COUNTY BOROUGH OF ROTHERHAM SENIOR ASSISTANT ARCHITECT Applications are invited for the appointment of Senior Assistant Architect, A.P.T. V (£1,310—

21.480).

The department has a varied and interesting programme of architectural work, including schools and central redevelopment area, and candidates are required to be Associate Members of the R.I.B.A. with good general experience in design and construction. The commencing salary in the grade will be according to capabilities and

experience.
Housing accommodation will be available if

Housing accommodation recessary.

Applications to be endorsed "Senior Assistant Architect," stating age, qualifications and details of experience, together with names of two referees, should be received by me not later than Wednesday, 10th May, 1961.

Canvassing will disqualify.

JOHN S. WALL,

Town Clerk.

Municipal Offices, Rotherham. April, 1961.

April. 1961.

BEESTON AND STAPLEFORD URBAN DISTRICT COUNCIL

ASSISTANT ARCHITECT, Grade A.P.T. III/IV (2560—£1,140—£1,310)

Applications 'rom suitably qualified persons, accompanied by the names of two referees, should be forwarded to the Housing Architect. Town Hall, Beeston, Nottingham, within 14 days. Commencing salary according to qualifications and experience.

Housing accommodation will be made available, if necessary.

H. D. JEPFRIPS

H. D. JEFFRIES, Clerk of the Council.

Town Hall, Beeston. 7286
INVESTIGATOR OR SENIOR INVESTIGATOR
INVESTIGATOR OR SENIOR INVESTIGATOR
(ARCHITECTURAL)
ROYAL COMMISSION ON ANCIENT AND
HISTORICAL MONUMENTS OF SCOTLAND
Pensionable post for man or woman as (a)
Investigator or (b) Senior Investigator according to age, qualifications and experience. Age on 1st May, 1961, for (a) at least 22 and normally under 35, for (b) at least 32 and normally under 35, for (b) at least 32 and increase (a) Intermediate R.I.B.A. or exemption: (b) degree in architecture or A.R.I.B.A. Ability in architectural drawing and interest in history of a dishurch in the property of the control of the

BOROUGH OF HAMMERSMITH
ARCHITECTURAL APPOINTMENTS
ASSISTANT ARCHITECT (A.P.T. V. £1,555—£1,535 p.a.). Applicants must be A.R.I.B.A. or hold equivalent qualification.
ARCHITECTURAL ASSISTANTS (A.P.T. IV. £1,855—£1,355 p.a.). Intermediate R.I.B.A. essential. Preference will be given to applicants who have passed Part 1 or 2 of the R.I.B.A. Final examination or have satisfactorily completed a course at a school of architecture.
DRAUGHTSMAN OR TRACER (male or female) Starting salary according to age, G.C.E. qualification and experience, between £515 and £615 p.a. at 22 and rising to £820 p.a. if suitably qualified.
The Department is engaged in varied and interesting works, including multi-storey flats in tall blocks, public buildings and depots.
Application forms for these appointments (returnable by 22nd May) from Town Clerk, Town Hall, Hammersmith, W.6.
S7293
BOROUGH OF HESTON AND ISLEWORTH

Hall, Hammersmith, W.6.

BOROUGH OF HESTON AND ISLEWORTH
APPOINTMENT OF
SENIOR ARCHITECTURAL ASSISTANT
Applications are invited for the permanent
appointment of a Senior Architectural Assistant
in the Borough Engineer and Surveyor's Department. Salary in accordance with A.P.T. Grade
IV (21,140-21,310, plus London weighting).
Applicants must have had good experience in
architectural design and building work under
construction, and, other things being equal, preference will be given to applicants who have
passed the examination for Associate R.I.B.A.
or hold a University Degree or Diploma in
architecture accepted by that Institute.
The Council is unable to assist the successful
candidate with housing accommodation.
Applications are to be submitted by 22nd May,
1961, on forms to be obtained from and returned
to the Borough Engineer and Surveyor, 88 Lampton Road, Hounslow.

D. MATHIESON,
Town Clerk

D. MATHIESON

Town Hall, Hounslow, Middlesex.

WEST SUFFOLK COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the post of ASSISTANT ARCHITECT within Grade A.P.T. IV-V
(£1,140-£1,480 per annum).
Applicants must be qualified Architects and
preferably have experience in Local Authority
work

ork. The department offers varied and interesting cperience on Educational, Police and Health

experience on Educational, Police and Health programmes.
N.J.C. Service Conditions; post pensionable; medical examination.
A five-day week is in operation; housing accommodation may be made available.
Application forms obtainable from the County Architect, 13 Westgate Street, Bury St. Edmunds, to be returned as soon as possible.

87299

METROPOLITAN BOROUGH OF BERMONDSEY

Applications are invited from persons under 51 ears of age for the following temporary appoint-

ments.

SENIOR ASSISTANT ARCHITECT required for about two years to design a Public Baths and later to lead a small group in the preparation of working drawings and specifications. Applicants must be qualified by examination as Associates of the R.I.B.A. Salary up to £1,565 per annum according to qualifications and experience.

perience.
ASSISTANT IN ARCHITECT'S SECTION.
Applicants must have passed Intermediate
examination of R.I.B.A. or R.I.C.S. and have
experience in surveying old housing properties
and preparing conversion and improvement
schemes. Salary at a point in A.P.T. III or IV
(£960—£1,310) plus London weighting according to

experience.
Applications for both appointments should be addressed to Borough Engineer and Surveyor, Municipal Offices, Spa Road, S.E.16.
87306

Municipal Offices. Spa Road. S.E.16. S7306

ARCHITECTURAL ASSISTANT
BRITISH TRANSPORT DOCKS invite applications for am Architectural Assistant at SOUTHAMPTON DOCKS. Candidates should be experienced in design and construction of industrial and office buildings by contract or direct labour and must be A.R.I.B.A. Ability to handle contracts direct with contractor. Commencing salary £1,175 per annum. Contributory Superannuation Scheme and certain rail travel facilities.

Applications, giving age, experience, qualifications and present position, to be forwarded to Staff and Establishment Officer. British Transport Docks (A), Melbury House, Melbury Terrace, London, N.W.I., to arrive not later than Thursday, 1279

DRAIGHTSMAN OF WOMAN.

DRAUGHTSMAN OR WOMAN in Department of Geography, Queen Mary College (University of London), Mile End Road, E.I. Skilled draughtsmanship and experience in dealing with mans essential. Salary placing on Senior Technician scale £690 × £25 — £815 p.a. according to ability, with London Weighting up to £45. Supplement for certain qualifications. Four weeks annual leave. Pension Scheme. Handwritten letters only to Registrar (GST) stating age, education, details of past and present work, and names of two persons to whom reference can be made.

CITY OF LEICESTER
CITY ARCHITECT'S DEPARTMENT
plications are invited from Architects for the

Applications are investment from Architects of the following: CHIEF ASSISTANT, Scale C, £1,560-£1,825. GROUP LEADERS, Scale A, £1,340-£1,565. SENIOR ASSISTANTS, A.P.T. IV/V, £1,140-

ASSISTANTS, A.P.T. III/IV, £960-£1,310. ARCHITECTURAL ASSISTANT, A.P.T. II, £815

— £950. Housing accommodation provided in appropriate ases. Five-day week in operation. Modern office

cases. Five-day week in operation. Modern office accommodation.

The Department, organised on a group basis to encourage team-work is being expanded to deal with an increased building programme and to carry out research into building methods and costs. The current building programme includes: Schools, Colleges of Further Education, Central Swimming Baths, Hostels, Youth Centres, Community Centres, Specialist Centres for Handicapped Persons, Housing and Central Area Re-Development Schemes including Markets, Bus Stations, etc.

Stations, etc.
Leicester, as a member of the Consortium of
Local Authorities (CLASP) is engaged on research
and development work on buildings of advanced

and development work of design.

Applications from qualified persons by May 15th stating post applied for, grade and salary required with names of two referees to: J. H. Lloyd Owen, B.Arch., F R.I.B.A., City Architect. 10 Loseby Lane, Leicester.

AIR MINISTRY requires QUANTITY SUR-VEYING ASSISTANTS, Grade III, at R.A.F. and Ministry of Aviation stations throughout the United Kingdom. The work includes abstracting and billing, site measurement and preparation of

stimates.
Salary, which is dependent upon age.
salary, and experience, ranges from £7 Salary, which is dependent upon age, quantitations and experience, ranges from £725 (age 5) to £961 maximum in Grade III. There are ension prospects and also opportunities of adancement to numerous posts in the higher grades,

Variement to numerous posts in the figure grades, viz:

Technical Grade II: £961—£1,098 123 posts
Technical Grade I: £1,098—£1,348 42 posts
Technical Grade B: £1,348—£1,552 6 posts
Technical Grade A: £1,439—£1,697 6 posts
Vacancies occurring in the higher grades are, as a rule, filled by promotion of existing staff.

Overseas tours for which special allowances ranging at present up to £1,800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher qualifications. Fiveday week with 18 days paid leave a year initially.

initially.

Applicants who must be natural born British subjects, must hold O.N.C. (Building or Builders Quantities) or equivalent and have had good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. Schedule an advantage. Forms from Manager (P.E.2), Ministry of Labour. Professional and Executive Register. Atlantic House, Farringdon Street. London, E.C.4. Candidates selected will be interviewed in Air Ministry. London, and certain expenses reimbursed. Only applicants selected for interview will be advised.

METROPOLITAN BOROUGH OF HACKNEY ENGINEER AND SURVEYOR'S DEPARTMENT Applications are invited for the following permanent appointments in the Architectural Section:

(a) ASSISTANT ARCHITECT
(ii)—A.P.T. IV (£1,140—£1,310 D.a.).
(b) ARCHITECTURAL ASSISTANT
(ii)—A.P.T. III (£664—£696 D.a.).
(iii)—A.P.T. III (£665—£1,310 D.a.).
(c) JUNIOR ARCHITECTURAL ASSISTANT—A.P.T. II (£645—£815 D.a.).
(c) JUNIOR ARCHITECTURAL ASSISTANT—A.P.T. I (£645—£815 D.a.).
Candidates for (a) must have passed the Final Examination of the R.I.B.A.; for (b) (except (ii)) must have passed the Intermediate Examination of the R.I.B.A. for (b) except (ii) must have passed the Intermediate Examination of the R.I.B.A. or its equivalent; and for (c) should be students of the R.I.B.A. or Probationers. London Weighting allowance payable in addition (£45 D.a. for A.P.T. III) posts and above). Commencing salaries according to training qualifications and experience. Modern staff canteer: siternate Saturdays: Dost-entry training facilities; possible 100% advances for hown Clerk. Town Hall, Hackney, E.S. returnable by 9 a.m.. 17521

COUNTY BOROUGH OF GREAT YARMOUTH SCHOOLS ARCHITECT'S DEPARTMENT Applications are invited from Associate Members of the R.I.B.A. for the appointment of MINOR WORKS ARCHITECT at a salary within APT.IV 21.140 to 21.310 per annum. A car allowance of £135 per annum is also payable. The successful applicant will be required to take charge of the Minor Works Section. Assistance with removal expenses may be made in suitable cases.

Full details of present and past appointments, age, qualifications and experience, together with the names of two referees, should reach the Schools Architect. Estion Road, Great Yarmouth, by 24th May, 1951.

G. FARROW Chief Education Officer.

22 Euston Road Great Yarmout

BOROUGH OF BACUP
ARCHITECTURAL ASSISTANT
Applications are invited for the above appointment in the Borough Engineer's Department.
Salary A.P.T. III (2560-21,140). Preference will be given to candidates who have passed Parts I and 2 of the R.I.B.A. Examination or equivalent.
The post offers special experience in the spheres of Central Area Re-Development and Industrial and Residential Development.
Housing accommodation will be provided, if necessary.

Application forms obtainable from me. Closing date, 27th May, 1961.

Municipal Offices, Bacup.

CITY OF SHEFFIELD
CITY ARCHITECT'S DEPARTMENT
Enthusiastic and imaginative architects possessing drive and determination are invited to apply for the following posts on the permanent staff of the City Architect, Mr. J. L. Womersley.

(a) SENIOR ASSISTANT ARCHITECTS
Grade A.P.T. III-IV (£1,140-£1,310).

(b) ASSISTANT ARCHITECTS
Grade A.P.T. III-IV (£960-£1,310).

Opportunities are available for work on large scale schemes of redevelopment and new development and on challenging schemes of urban renewal.

newal.

Assistants are urgently required for the Education and General Section which is responsible
for an expanding and interesting programme
of large and important civic buildings, including the Town Hall Extensions, colleges, schools,
libraries, art galleries, old people's and children's
homes, fire and police stations, health centres
and clinics.

libraries, art galleries, old people's and children's homes, fire and police stations, health centres and clinics.

COMMENCING SALARIES WITHIN THE ABOVE GRADES ACCORDING TO QUALIFICATIONS AND EXPERIENCE.

Applications for posts (b) will be welcomed from students completing their training this year and from young qualified architets seeking appointments offering considerable scope.

Applications stating post applied for, age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two persons to whom reference may be made should reach me by Monday, 15th May, 1961.

JOHN HEYS.

JOHN HEYS, Town Clerk.

Town Hall, Sheffield, 1

LANCASHIRE COUNTY COUNCIL DEPUTY ASSISTANT PLANNING OFFICER required in the Development Section at Head-quarters; salary J.N.C. Grade 'C' (£1,560—£1,525).

quarters: salary J.N.C. Grade 'C' (£1,560-£1,825).

This officer will, through the Assistant County Planning Officer, assist in the execution of policy relating to Development Plan preparation, submission and modification and appropriate coordination with outstationed offices.

Experience is required in the reception of overspill population and experience of urban reconstruction schemes would be an advantage. Applicants must have a sound knowledge of general planning and development legislation and experience of development control procedure, consultation and administration.

Candidates should have an appropriate University degree and/or one or more of the following qualifications—A.R.I.C.S., A.M.I.C.E., A.M.I. Mun.E., A.M.T.P.I.

Applications stating age, qualifications, present appointment, experience and two referees to the County Planning Officer (S), East Cliff County Offices, Preston, by the 11th May, 1961, in envelopes marked 'D.A.P.O.'

Table Planning Officer (S), East Cliff County P

HAILSHAM RURAL DISTRICT COUNCIL SECOND ARCHITECTURAL ASSISTANT ASS

surate with the applicant's qualifications and experience.

The appointment is superannuable and subject to the National Scheme of Conditions of Service. A car allowance will be paid and a five-day week is in operation.

Applications by letter giving information which will assist in the selection of the most suitable person, together with the names and addresses of two referees, should reach the undersigned not later than 19th May, 1961.

A CARR.

Clerk to the Council.

Cortlandt, Hailsham, Sussex.

EAST SUSSEX COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT
PLANNING ASSISTANT required in Area
Planning Office at Crowborough, Scale A.P.T. III
(2950 to £1,140 per annum).
Particulars and application forms obtainable
from County Planning Officer, County Hall,
Lewes, Sussex, to be returned by the 17th May,
1961.
S7309

HAILSHAM RURAL DISTRICT COUNCIL
ARCHITECTURAL ASSISTANT
Grade II (2815-2960)
Applications are invited for this post from assistants who have passed the R.I.B.A. Intermediate examination. The Council's building programme includes new housing, conversions and improvements to older houses together with close collaboration with the Engineers on road and sewer work.
The appointment is superannuable and subject to the National Scheme of Conditions of Service and a car allowance will be paid.
Commencing salary will not necessarily be at the bottom of the scale. Prospects of upgrading if the person appointed completes his studies to become a full member of the R.I.B.A.
Details of training, experience and previous appointments should be sent to the undersigned, together with the names and addresses of two referees, not later than 19th May, 1961.

A. CARR.
Cortlandt,
Hailsham.

Cortlandt, Hailsham, Sussex.

Sussex. 7324

CITY OF LEICESTER EDUCATION

COMMITTEE

LEIGESTER COLLEGE OF ART

Principal: E. E. PULLER, A.R.C.A., F.S.A.E.

SCHOOL OF ARCHITECTURE

Applications are invited from holders of a
Degree or Diploma of a recognised School of
Architecture, or from Associate Members of the
R.I.B.A. for a POST-GRADUATE RESEARCH
FELLOWSHIP IN ARCHITECTURE tenable at
the School of Architecture, Leicester College of
Art, for advanced work in Architecture. The
holder of the Fellowship, which is for a period
of up to three years, will be paid on the Burnham Scale, Grade B.

Further details may be obtained from the
Registrar, Leicester College of Art, The Newarke,
Leicester.

Leicester. 7322

STATES OF GUERNSEY
STATES ENGINEER'S DEPARTMENT
Applications are invited from suitably qualified persons for the following appointments in the States Engineer's Department, which has in hand a varied and interesting programme of work.

(1) QUANTITY SURVEYOR. Salary scale £1,190-£1,450 (subject to review). Applicants for this post should be qualified Quantity Surveyors and fully conversant with the preparation of bills of quantities, specifications, pricing and the settlement of accounts. This is a new appointment and the successful applicant will be required to organise the work of this section of the department.

organise the work of this section of the department.

(2) ARCHITECTURAL ASSISTANTS. Salary scale £780-£1,100 (subject to review). Applicants for these posts should have bassed the Intermediate Examination of the R.I.B.A. All appointments are to the Established Staff and subject to the States of Guernsey Conditions of Service, one month's notice on either side and the passing of a medical examination. Commencing salary in each case will be according to qualifications and experience. Particulars of pension and the transfer of pension rights under the Local Government Superannuation Acts are obtainable on application, Houses will be made available in appropriate cases and removal expenses refunded.

Applications, stating age, qualifications, present and previous appointments, experience and the names of two referees, should be sent to the States Supervisor, States Office, Guernsey, C.I. not later than the 22nd May, 1961.

BOROUGH OF WIMBLEDON

BOROUGH OF WIMBLEDON
ARCHITECTURAL DRAUGHTSMAN, Grade
A.P.T.II, 2815 to £960 plus London Weighting.
Form of Application from Borough Engineer and
Surveyor, Town Hall, Wimbledon, S.W.19. Returnable by 15th May, 1961. Canvassing disqualifies.

COUNTY BOROUGH OF WEST BROMWICH
BOROUGH SURVEYOR'S DEPARTMENT
Applications are invited for the following
appointments:—
SENIOR ASSISTANT ARCHITECT. Salary
A.P.T. IV (£1,140 to £1,310 per annum).
ARCHITECTURAL ASSISTANTS. Salary A.P.T.
I (£645 to £815 per annum).
N.J.C. Conditions of Service, and a five-day
week.

M.A. Countries week.

Applications, naming two referees, to the undersigned by 15th May. 1961.

W. H. GREENWOOD, Borough Surveyor.

West Bromwich.

CITY OF PETERBOROUGH

Applications are invited from qualified Architects with Local Government experience for the appointment of a SENIOR ASSISTANT ARCHITECT in Grade IV. A.P. & T. (£1.40 to £1.310 by three increments), together with fixed car allowance of £108 per annum. Housing accommodation, if desired, will be provided.

Forms of application from City Engineer, Town Hall, Peterborough. Closing date for applications: 19th May, 1961.

C. PETER CLARKE, Town Clerk.

Town Hall, Peterborough. April, 1961.

STEVENAGE DEVELOPMENT CORPORATION
Applications are invited for the post of ASSISTANT LANDSCAPE ARCHITECT in the Chief
Architect's Department on New Towns' Salary
Grades APT.II £815/£960 or APT.III £960/£1,140
according to experience and qualifications but
candidates should have passed the Intermediate
examination of the Institute of Landscape
Architects.

examination of the Institute of Education Architects.

The work entailed is of an interesting nature and includes the treatment of Radburn type housing development amongst other projects.

Housing accommodation will be available in the control of the commodation of the control of the contro

of two referees, to be sent to the Chief Administrative Officer, Daneshill House, Danestrete, Stevenage, Herts., not later than Friday, 19th May, 1961.

INVERNESS COUNTY COUNCIL invite applications for appointments in the County Architect's Department as follows:

(a) 1 FIRST ASSISTANT ARCHITECT—Salary Scale £1,135-£1,200 per annum.

(b) 2 SECOND ASSISTANT ARCHITECT—Salary Scale £50-£1,150 per annum.

(c) 1 THIRD ASSISTANT ARCHITECT—Salary Scale £640-£445 per annum.

Applicants for appointments (a) and (b) must be fully qualified. Appropriate placing on salary scale swill be given in accordance with qualifications and experience. Housing accommodation may be made available if required. Applicants for appointment (c) must be qualified to intermediate stage. Applications, together with the names and addresses of three referees to the County Clerk, County Buildings, Ardross Street, Inverness, by 12th May. 1961.

GLAMORGAN COUNTY COUNCIL

Invite applications for:

GLAMORGAN COUNTY COUNCIL

Invite applications for:

GLAMORGAN COUNTY COUNCIL

(a) ASSISTANT PLANNING OFFICER for Eastern Area Office at Pontypridd.

(b) PLANNING ASSISTANT at County Hall, Cardiff.

Salary for (a) and (b) £1,140-£1,310 p.a. A lodging allowance will be paid in certain circumstances, and a car allowance will be payable in the case of appointment (a).

Applicants are required to have passed the final examination of the Town Planning Institute or other approved Professional Body or to be University Graduates, and in each case to have had five years' experience, including the period spent on theoretical training.

Applicants are required to have passed the final examination of the Town Planning Institute or other approved Professional Body or to be University Graduates, and in each case to have had five years' experience, including the period spent on theoretical training.

Applicants are required to have passed the final examination of the Town Planning Institute or other approved Professional Body or to be University Graduates, and in each ca

RICHARD JOHN. Clerk of the County Council

COUNTY BOROUGH OF BARROW-INPURNESS
BOROUGH ENGINEER & SURVEYOR'S
DEPARTMENT
TECHNICAL STAFF
Applications are invited for the following

Applications are invited for the following posts::

(a) PRINCIPAL ASSISTANT ARCHITECTS (2) Grade V. £1,310—£1,480.

(b) TOWN PLANNING ASSISTANT (REDEVELOPMENT) Grade IV-V. £1,140—£1,480.

(c) HEATING ENGINEER Grade V. £1,310—£1,480.

(d) QUANTITY SURVEYOR Grade V. £1,310—£1,480.

In each case commencing salary within the limits indicated.

Housing accommodation available. Five-day week.

Housing accommodates

Week.
Full details of posts and forms of application
available from Borough Engineer and Surveyor.
Closing date—26th May, 1961.
LAWRENCE ALLEN.
Town Clerk.

Town Hall, Barrow-in-Furness.

Architectural Appointments Vacant

per line; minimum 12s. Box Number, including forwarding replies, 2s. extra.

R ONALD WARD AND PARTNERS invite applications from ARCHITECTS, Senior and Junior. Long-term prospects. Scope for initiative and responsibility in interesting commercial, industrial and civic projects in British Isles, West Africa and Australia. Salaries commensurate with ability, Non-contributory Pension and Life Insurance schemes, Five-day week. Pleasant offices. Apply 29, Chesham Place, Belgrava Scott. Senior Scott, Scott Scot

\$2950-\$1,500. ARCHITECTURAL ASSISTANTS with imagination and designing ability required to assist with large and important new developments in the central London Area. Telephone or write: Trehearne & Norman, Preston & Partners, 83, Kingsway, W.C.2.

HOLDOT 4071.

HOLborn 4071.

YORKE, ROSENBERG AND MARDALL have some vacancies for experienced STAFF, starting salary according to qualifications and experience, in the range £950-£1,200, Ring AMBassador 4521 for appointment.

EXPERIENCED and confident ARCHITECTS required to fill positions of responsibility in a growing and varied practice with industrial and commercial work throughout the southern half of the country. Applicants must have initiative as well as architectural ability to carry through contracts up to £100,000, working directly with Principals but with minimum supervision. Apply in writing to Thomas Mitchell & Partners, 20, Bedford Square, London, W.C.1.

SENIOR ASSISTANTS required. Please appl to F. G. Frizzell, A.R.I.B.A., 80, Portlan Place, W.I. LANgham 1732. TC494

to E. G. Frizzell, A.K.I.E.A., 60, Editable Place, W.I. LANgham 1732.

RCHITECTURAL ASSISTANTS of all grades, particularly Intermediate standard, required on varied and interesting projects. High salaries will be paid in accordance with skill or experience of applicant. Lewis Solomon, Kaye & Partners. City 3811.

PLAYNE & LACEY require experienced and enth-sistatic SENIOR ARCHITECTURAL ASSISTANT for work on University project. Salary range 21,200 to 21,500. Write 19, Queen Anne's Gate, Westminster, S.W.I., or ring WHI 2552 for interview.

A RCHITECTURAL ASSISTANTS required in busy Bloomsbury office with varied practice. Good saiary and prospects for suitable applicants. Five-day week Write giving particulars of age, qualifications, experience, etc., to Box 918, c/o 7, Copiic Street, W.C.1. T15647

Box 918, c/o 7, Copic Street, W.C.1. TCS

PPORTUNITY for Intermediate or new
qualified ASSISTANT with initiative a
all-round ability, to join youthful expanding pr
tice in Croydon. Apply to Donald Rowswell
Partners, 11/11a, George Street, Croydon, or te
phone CROydon 4086,

phone CROydon 4080. TC5723

SENIOR ASSISTANTS required for work on large Hospital programme, excellent opportunities for the right men, salary £1,000-£1,400. Luocheon Vouchers and fiveday week. Write giving full particulars to W. H. Watkins, Gray and Fartners, 57, Catherine Place, S.W.I. TC6635

A RCHITECTURAL ASSISTANTS required for interesting work, including schools and hospitals, in Croydon office. Commencing salaries offered: 2900-21,150 for Associates, 2500-2850 for students, according to age and experience. Five-day week and annual bonus. Write to George Lowe & Partner, 79, George Street, Croydon.

A ROHITECTURAL ASSISTANTS required with practical experience. Varied practice including contemporary work. Ed.100 (plus L.V.s). according to qualifications and experience. Please write, giving full particulars, to Sir Giles Scott, Son & Partner, 9. Gray's Inn Square, W.C.I.

Clouders, to Str Giles Scott, Son & Partner, 9. Gray's Inn Square, W.C.1.

RNO GOLDFINGER requires several qualified ASSISTANTS with at least 2 years' experience to take part in a growing programme of interesting work which includes large office buildings, central developments. Local Authority housing, schools and private houses. Good salaries and scope for men with sound knowledge of construction. "Phone HYDe Park 5657. TC5084

A RCHITECTS' ASSISTANTS required, both Intermediate R.I.B.A. and Finals standard, with experience in this country. Good salary offered. Bernard Gold & Partners. 4/6, Savile Row. W.1. Regent 7551.

ordered. Bernard Gold & Partners, 4/6, Savile Row.

W.1. Regent 7551.

INTERMEDIATE to Final ASSISTANTS required immediately. Salary according to ability and experience, Theo. H. Birks, 38.

Portland Place, London, W.1. LAN, 7235. TC9739.

ARCHITECTS' ASSISTANTS required, Final and Intermediate standard, to work on large and interesting projects. Salary 2850 to £1,000. Applicants must be good draughtsmen, with sound knowledge of detailing. Please write giving full particulars of experience, age. etc., for F. L. R.I. B.A. 15, Dix's Field, Exeter. TC6945.

CHALLEN AND FLOYD require an ASSIS.

CHALLEN AND FLOYD require an ASSIS-with a minimum of five years' experience. Work will be interesting, varied and responsible. Salary according to age and experience. Luncheon vouchers provided. Apply to 7, Cromwell Road, London, S.W.7, KENsington 8534/8549, TC6491

PLAYNE & LACEY require experienced and enthusiastic ARCHITECTURAL ASSISTANTS. Salary range £900-£1,050. Write 19, Oneen Amer's Gate. Westminster, S.W.1. or ring WHI 2552 for interview.

RCHITECTURAL ASSISTANT at Inter-mediate Standard required for West End Branch of Provincial Architects. Interesting and varied work. Five-day week. Luncheon Vouchers. Write full particulars of are, experience and salary required to Box TC6925.

QUALIFIED ARCHITECTURAL ASSISTANT required immediately in Home Counties office. Considerable scope for work on industrial, commercial and housing schemes. Five-day week. Write full particulars of age, experience and salary required to Box TC6926.

A RCHITECTURAL ASSISTANT required.

R.I.B.A. Intermediate standard, with some office experience. Varied and interesting work. Five-day week. L. Vs. Good salary for keen and competent person. William Crabtree. F.R.I.R.A., 8, Robert Adam Street, W.1 (WELbeck 9909). TC5776

A SSISTANT ARCHITECTS required, recently qualified or Intermediate standard, to join design teams working on a variety of interesting projects throughout the country. Work involves design and site supervision. Good salary. Apply, with brief particulars, to D. Greenwood, B. Arch., A. B. I. B. A., Staff Architect, John Collier Tailoring Organisation, Architects Department, Cardigan Cresceut, Leeds, 4.

WELL-KNOWN firm of City Architects with wide practice covering the whole country and Branch Offices in three of the Provinces, require JUNIOR ASSISTANTS, Five-day week. Good salaries. Luncheon vouchers. Box 86835.

Good salaries. Luncheon vouchers. Box 86835.

EXPERIENCED ASSISTANTS required for good class work of all types. Applicants should be capable of managing contracts from sketch plan to completion. Salary by arrangement. Telephone WELbeck 8863 for appointment.

ASSISTANT required in old established office. General practice. Apply stating experience, salary etc. Apply: Manning & Steel, F.R.I.B.A., Architects & Surveyors. 3 George Street West, Luton, Beds. S6676 ENIOR ARCHITECTURAL ASSISTANTS. Large Office has a limited number of vacancies for Senior Architectural Assistants, salary range 4900—£1,500, to undertake work of a varied and interesting character.

Reply with particulars of experience to Box TC6876.

Reply with particulars of experience to Box TC6875.

A SSISTANTS of various grades required in Architects Office. Salary according to experience. Write Nicholas & Dixon-Spain & Partners, 19, Hanover Square, W.1.

A ROHITECTS. Experienced ASSISTANTS required for work on interesting major schemes, able to take initiative and responsibility. Bonus, Pension and Life Assurance Schemes. Salary according to experience and ability. Full particulars to Hadfield, Cawkwell & Davidson, 17, Broomgrove Road, Sheffield 10.

O BERT MATTHEW & JOHNSON-MARSHALL have vacancies in their London office for ARCHITECTS at all levels of experience for a variety of interesting jobs. Apply to Robert Matthew & Johnson-Marshall. 24, Park Square East, N.W.1.

TIG547

SIR JOHN BURNET, TAIT & PARTNERS have vacancies for ARCHITECTURAL ASSISTANTS of all grades. Salaries from £1,200 p.a. Lunchoon vouchers, superannuation and medical schemes, non-contributory. Apply 19 Bedford Square, W.C.1.

DASIL SPENCE & PARTNERS require quali-

Square, W.C.1.

Basil spence & Partners require qualified and experienced Architects to full positions of responsibility on a major building programme. Write to 1, Fitzroy Square, W.I., stating experience and salary required. TC9824

21.000 (£2,000 p.a. will be paid to experience and salary required. TC9824

London. The work will be primarily on the drawing board on new and interesting projects of magnitude. A high standard of design and detailing ability is required. Please apply in writing to Box TC9360.

detailing addity is writing to Box TC9360.

SENIOR ASSISTANTS required immediately.
Salary by arrangement. Theo. H. Birks, 38, Portland Place. London, W.L. LAN 7250. TC1486

POOTH, LEDEBOER AND PINCKHEARD require ASSISTANTS in the salary range £750—£1,250. Apply 17-20, Mason's Yard, Duke Street, St. James's, S.W.1. Tel.: TRAfalgar TC3119

NORTH & PARTNERS, Chartered Architects, have vacancies for two ARCHITECTURAL ASSISTANTS, for interesting works in various parts of the country. Opportunities for advancement in accordance with ability. Please state salary required and general experience. Broadway, Maidenhead.

GBORGE, TREW & DUNN.

Interesting projects include new hospitals, university buildings and multi-storey flats.

Qualified ARCHITECTS are invited to apply to J. Eastbourne Terrace, W.2. Tel. PAD 6611. TC6403

A RCHITECTURAL ASSISTANT required for North Devon Office. Box TC6673.

ROFF MARSH, F.R.I.B.A., M.T.P.I., requires ouglified and experienced ARCHITECT, also ASSISTANT of Intermediate standard. Interesting large projects including shops, flats, offices and schools; working in an office in pleasant surroundings. Write, stating age, experience and salary required to 125/7, London Road, Chelmsford, Pssex.

ENIOR AND JUNIOR ASSISTANTS. Only those who prefer a small office and an interesting variety of work on both old and new buildings should apply to: L. H. Bond & R. W. Read. 44, Castlegate, Grantham.

R. W. Read. 44. Cashekate, Grandad.

C. H. ELSOM & PARTNERS require two
SENIOR ARCHITECTS with good technical experience and design ability for large scale
projects. Pension scheme and luncheon vouchers,
10 Lower Grosvenor Place, S.W.I. VICtoria 4304.
TC6733

EXPERIENCED ASSISTANTS required for responsible positions in West End office. Salaries £1,000—£1,500. Apply Box TC6371.

LEICESTER. SENIOR ARCHITECTS AND ASSISTANTS required for general practice. Appropriate salary paid. Apply by telephone or in writing for an interview to Herbert, Son & Sawday, 18, Friar Lane, Leicester. Tel. 56476.

Bawday, 18, Friar Lane, Leicester. Tel. 56476.

TC5307

BRYAN & NORMAN WESTWOOD & PARTNERS require ASSISTANT ARCHITECTS. Salaries up to £1,200. Apply to 21, Suffolk Street, 8.W.I. TRAfalgar 1106. TC6736

RING KNIGHTSBRIDGE 3483 for congenial surroundings in a medium sized office in South Kensington. R. Mountford Pigott & Partners require JUNIOR and SENIOR ASSISTANTS with office experience to work on various modern schemes including multi-storey flats for private and L.C.C. development, Banks, Hoepitals and a variety of interesting work.

6813

E850-21,600. ARCHITECTURAL ASSISTANTS required. Long term prospects. Non-contributory pension and life assurance schemes. Five-day week. Telephone or write: Ronald Ward & Partners, 29, Chesham Place, Belgrave Square, S.W.I. Belgravia 3361.

S.W.I. Belgravia 3361. Teace, Belgrave Squate.

S.OTT. BROWNBIGG & TURNER, Architects, require SENIOR and JUNIOR.

RROHITECTURAL ASSISTANTS in their London, Guildford and Woking offices. Write with details to M. London Road, Guildford. 6998.

SIE WILLIAM HALCROW AND PARTNERS require ABCHITECTS and ASSISTANTS to join design group in London developing a large overseas industrial project. Please write with particulars of qualifications and experience to:—

with particulars of qualifications and experience to:

Sir William Halcrow & Partners,
47, Park Lane,
London, W.1.

London, W.1.

ASSISTANTS with a minimum of three years' office experience in this country. Write, giving brief particulars of architectural education and experience, and salary required. to: 13, David Mews, Baker Street, W.1.

RCHITECTURAL ASSISTANTS of all grades required in a busy provincial practice. Good salaries to right applicants. Pension Scheme. Accommodation. Apply with full details to:

d Sainteneme. Accommodation.

ills to:
Ruddle & Wilkinson, F/L/A.R.I.B.A.,
Long Causeway Chambers,
Peterborough.
Thermodation.
Linkering Peterborough.

TC6984

REDERICK GIBBERD—ARCHITECTURAL
ASSISTANTS. Final and Intermediate.
Interesting work, excellent experience for anyone wishing to succeed in architecture. Salary according to ability. Five-day week. Pleasant and well organised office. Write giving full details: 8, Percy Street, W.1.

MALL office needs ASSISTANT. £600—£750.
Philip Jebb, 140 Sloane Street, S.W.1. SLO
5385.

CLIFFORD CULPIN & PARTNERS offer two
weeks' holiday this summer at time to suit
applicants. One SENIOR and one LESS SENIOR
post offered to really keen men with a sense of
design wanting opportunities for responsibility.
Very varied work including civic design. 39,
Doughty Street, London, W.C.1. CHAncery 5395.

HEMEL HEMPSTEAD—Clifford Culpin & Partners, now established locally, want two more MEN who could avoid commuting and work in bright surroundings on exciting programme which includes the Town Hall, Town Centre Pavilion and Health Centre. Interview at 18, Marlowes, any Saturday morning by appointment. Two weeks' holiday this summer. Apply 39, Doughty Street, London, W.C.1. CHAncery 5395.

CLIFFORD CULPIN & PARTNERS offer opportunity for MAN about Intermediate standard to gain experience of site supervision working under a Senior. Two weeks' holiday this summer. 39, Doughty Street, London, W.C.1. CHAncery 5395.

CHAncery 5395.

PDWARD D. MILLS & PARTNEBS require additional qualified STAFF for a variety of new work including housing, schools, industrial and churches. Enthusiasm and initiative important. Five-day week, Write giving full details to 9/11, Richmond Buildings, Dean Street, London, W.1.

OSCAR GARRY AND PARTNERS require that two years' office experience, to work in a team on large interesting projects. Salaries from 2900 denending upon ability and experience. Abroly 66, Gloucester Place, W.1, or 'phone WELbeck' 2507.

MELbeck 2507. TC7055

ARCHITECTURAL ASSISTANTS OF ALL
GRADES required to work in design/construction groups on comprehensive Town Centre
planning, also flats, factories, interior designs,
and shops and offices. Salaries up to £1,500 p.a.
according to age and experience. Holiday in
accordance with service, minimum two weeks.
Luncheon vouchers. Five-day week, overtime
paid extra.

Luncheon vouchers. Five-day week, Overline paid extra.

J. Seymour Harris & Partners, 3/4, Greenfield Crescent.

Brawsers Surveyor's Department. East London, renuires competent DRAUGHTS-MEN. Good salaries, congenial office, interesting and varied programme. Box 6954

INGSTON-UPON-THAMES.—SENIOR and JUNIOR ASSISTANTS required, male or female, for interesting and varied work. Salary range up to £1,150 per annum offered to autiable applicants. Fleesant and congenial office conditions. Flee day week. Applications in writing, with essential particulars, will be treated in confidence. Donaldson & Co., Architects, 75, London Road, Kingston-upon-Thames.

with essential particulars, will be treated in condence. Donaldson & Co., Architects, 75, London
Road, Kingston-upon-Thames.

COMPLETE CONTROL & million contract in
Home Counties. Hyde Park Corner office.
Qualified and experienced architect. Up to £1,400
salary. Appointments BEL 6595.

TC6953

UNIOR ARCHITECTURAL ASSISTANT required by a world-wide organisation with
Head Office in London. Applicants must be probationers approaching Intermediate standard or
students of the R.I.B.A., and have had at least
two years' experience in the preparation of working drawings and details. Apply in writing giving
full information to Staff Manager, Cable and
Wireless Limited. Mercury House, Theobalds
Road. London, W.C.I.

DOWELL AND MOYA need several enthusiastic ASSISTANTS to work on new major
general hospitals. These large schemes offer
many interesting opportunities. For Assistants
of Intermediate standard, good general experience can be gained of buildings requiring a high
standard of detailing and finish. For qualified
Assistants and those of Final standard, there is
the challenge of resolving complex and developing
requirements into a humane architectural
solution. If you are interested, please write to
56, Great Smith Street, London, S.W.I., or telephone ABBey 3156.

PEARD, BENNETT, WILKINS AND PARTNERS need one or two more above average
looking for those recently qualified or of Final
standard who will join in work on major projects and take responsibility at an early date.
Write to 101 Baker Street, W.I., or phone HUN
1711, ref. KAM, for an appointment to see our
office and work and to discuss Joining u. We
have Associateship and Pension Schemes besides
other benefits and will give advancement, both
financial and professional, to the right people.

ST104

financial and professional, to S7104

21.250 PER ANNUM MINIMUM SALISBURY, WILTS. We are looking for a young qualified ARCHITECT who is anxious to accept responsibility. The work will be on notable projects and mainly negotiated Contracts involving close co-ordination between Architect and Builder. There are excellent prospects for the right man. Apply to: Wallace Smith and Ball, A/A.R.I.B.A., 84, Crane Street, Salisbury. Tel. No. Salisbury 6798.

TOMIC contracting combine requires urgently A two top-grade industrious and intelligent ARCHITECTURAL ASSISTANTS for short-term all-out effort on working drawings. Work in London office is of most challenging and complex nature. Those interested please write stating age, experience, and salary required to: N.C.C., 52 Canaby St., London, W.I., quoting ref. RY. S7093

A RCHITECTURAL ASSISTANTS. Well-known contractors in West End require Architectural Assistants. Intermediate or Finals standard. Permanent position, superannuation and bonus. Good prospects. Write in confidence stating age, experience and salary required to Box 87094.

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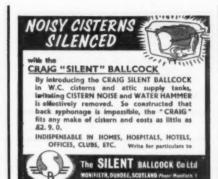
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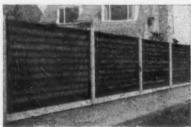
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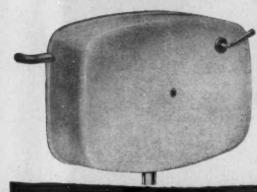
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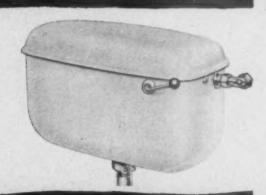


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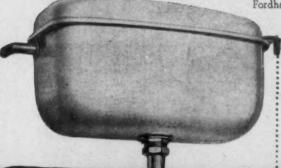
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