# ARCHITE



tandard

contents

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

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Museum 0974 glossary of abbreviations of Government Departments and Societies and Committees Architectural Association, 34/6, Bedford Square, W.C.1.

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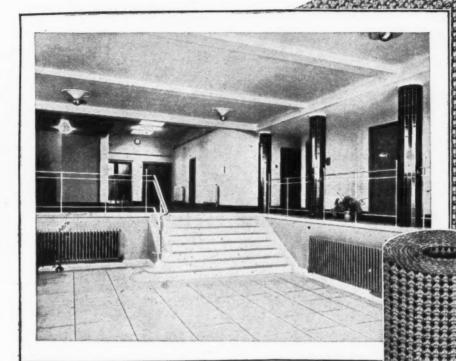
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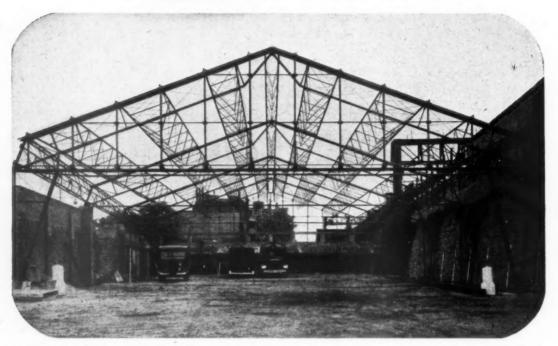
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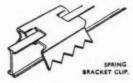
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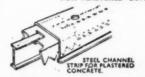
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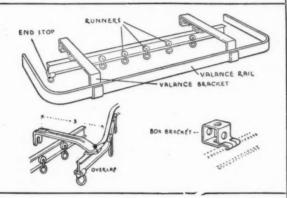




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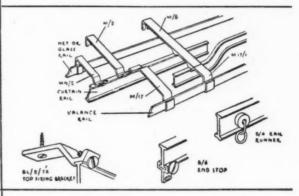


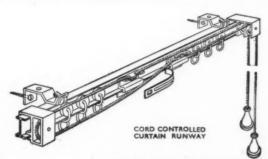
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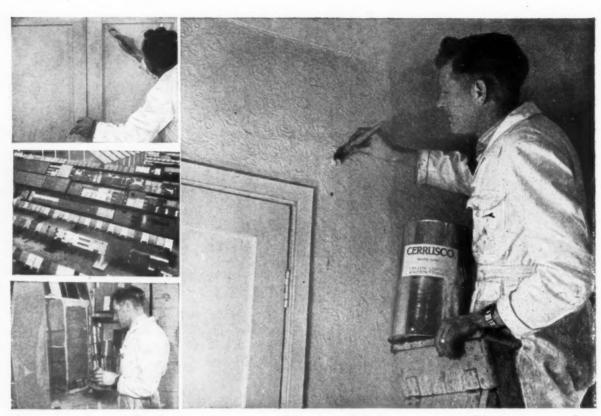
Architect's Journal: the following information Sheets are available and will be sent on request to manufacturers. SHEET 44 D.J. ('RUFFLETTE' RECESSED RUNWAY). SHEET 44 D.J. ('RUFFLETTE' B/L and M Type Runways).

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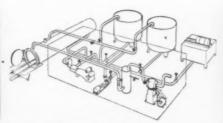
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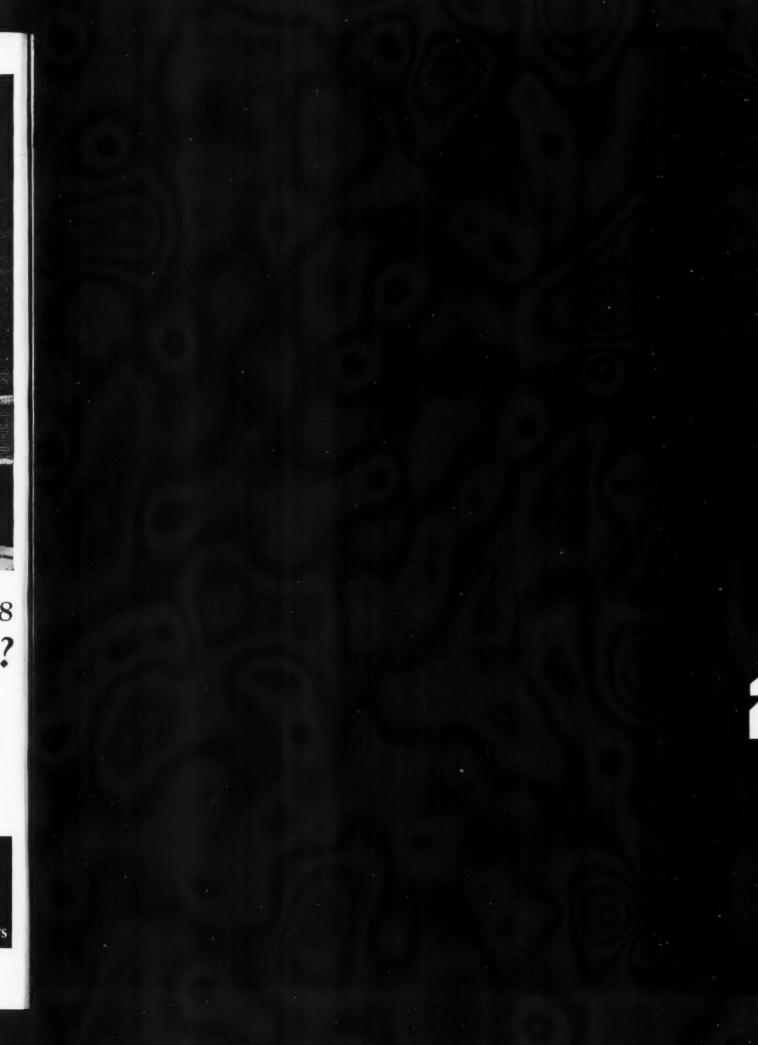
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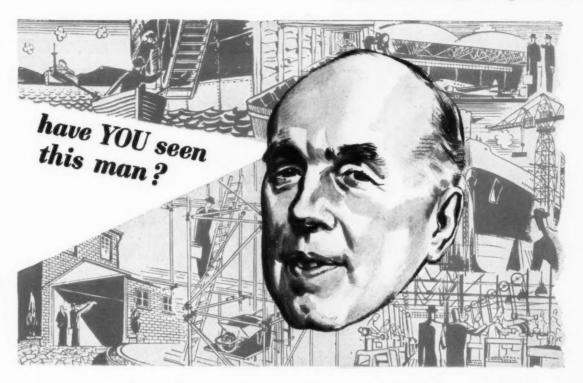
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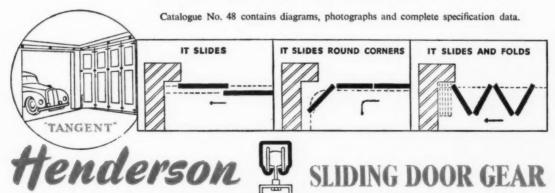
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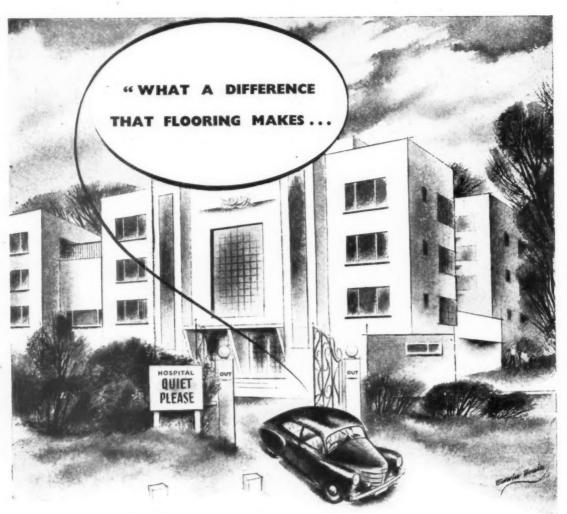
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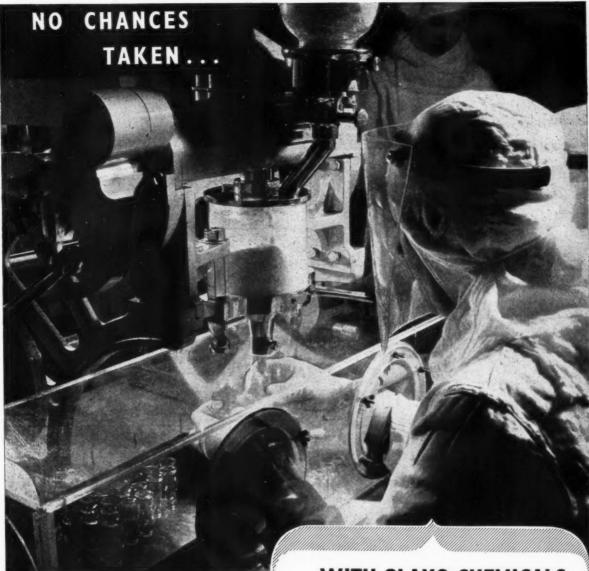
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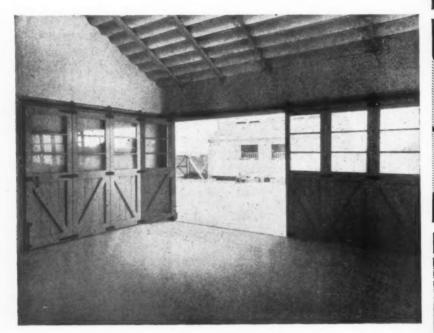
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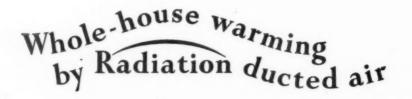
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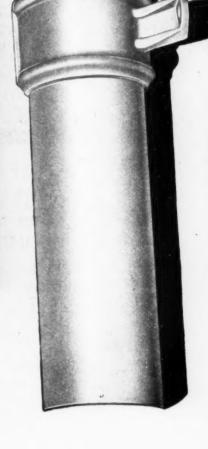
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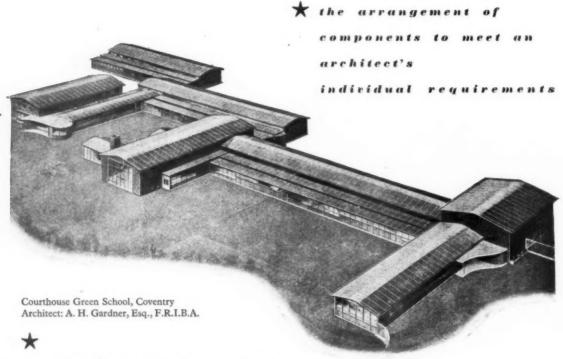


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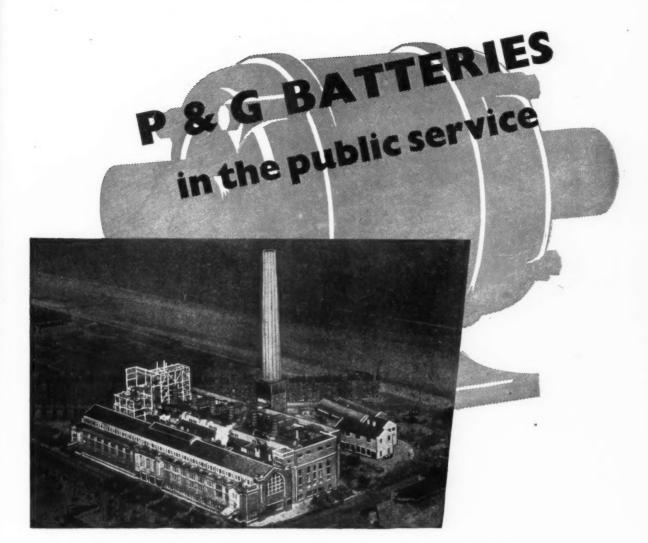
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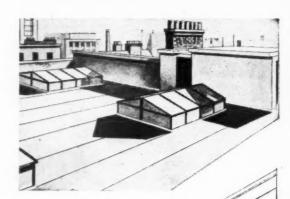
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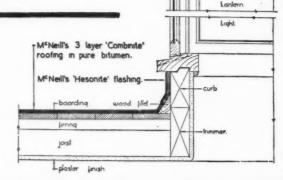


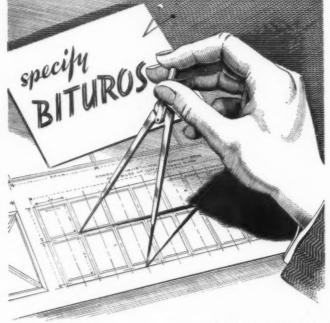
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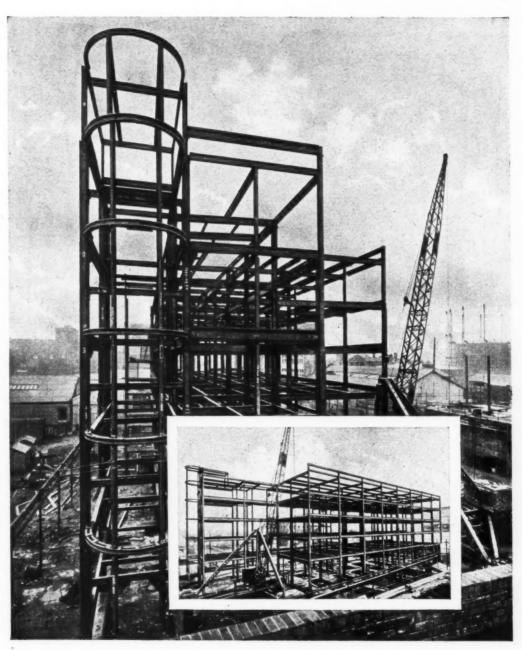
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THE ARCHITECTS' JOURNAL

No 2897 17 August 1950 VOL 112

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OCEAN TERMINAL

In a letter printed elsewhere in this issue, C. B. Dromgoole, architectural assistant to the Southampton Docks Engineer, takes me to task for my critical remarks in the August 3 issue about the new Ocean Terminal, criticisms which were followed up editorially in the next issue.

One of the points I made was to deplore the principle whereby the architect of an important building works under an engineer. Mr. Dromgoole says that in this particular case he had a completely free hand, a fact I am glad he should put on record; although I still regard the principle as wrong and one which the RIBA should take up, especially in relation to the docks, railways and other nationalized undertakings.

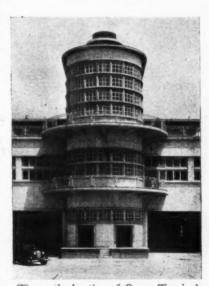
I respect Mr. Dromgoole's frankness in acknowledging full responsibility for the design of a building whose outward appearance has already been so unfavourably commented on-not only in the Journal but elsewhere. As to the JOURNAL's criticisms, I would point out, in view of the emphasis placed on planning complications in his letter, that it was said in so many words that it seemed to be an admirable building functionally.

The issue is primarily one of quality in design-of æsthetics if you like-and this is admittedly an issue on which one can only give a personal opinion. Mr. Dromgoole, however, should realize that one of the penalties of being the author of a building of national importance is that people who dislike the design tend to say so. I think it is healthy that they should. As I have often said before, outspoken criticism of contemporary architecture is needed. but it will not come about if the architects themselves give the impression that they dislike criticism of any kind.

BASIN IN ABEYANCE

Readers who don't know Paddington very well may be surprised that the photograph at the top of page 153 was taken in that borough. It shows part of the Grand Union Canal basin, including a strip of land on the left of the picture which is the subject of an argument between the borough council and the LCC. On this tiny peninsula of land there are some fine trees, a large derelict house and a few artists' studios. All these would be swept away if the council had its way and built the block of 30 or 40 flats for which it has already prepared plans. The LCC agrees that the derelict buildings should be removed, but maintains that the area should be preserved as an open space. The council contends that by building its flats on stilts it would retain the view for the public. At the moment the matter is being considered by the MOTCP.

I suspect that the cost of footing and stilts on the waterlogged site would increase flat rents. But that is not my main objection to the proposed building. In 1948, when the canals had been nationalized, the JOURNAL recommended that the towpath in this basin, together with other towpaths, should be opened to the public and made attractive for them. Reference was made at the time to the fine vista provided by the site now under discussion. ASTRAGAL still hopes that this pleasant little corner of Paddington will be put



The south elevation of Ocean Terminal, Southampton. On page 156 C. B. Dromgoole replies to Astragal's criticism of the building published on August 3. Terminal was described and illustrated in last week's Journal. (See also first note on this page).

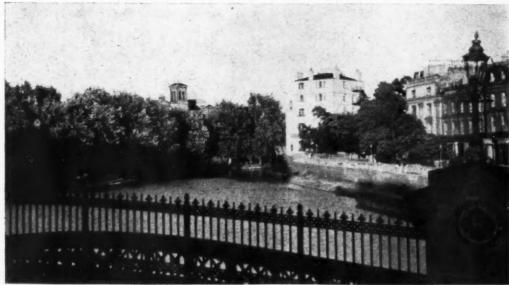


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Paddington pool: the borough council proposes to build flats on the tree-covered site on the left but the LCC are opposing the scheme. (See note on page 151).

to good use for recreational purposes. The construction of flats overshadowing the basin would destroy the chances of such development.

#### FOR PROGRESS

The South Bank seems to be humming with activity whenever I pass that way, and a lot of fascinatingly complicated buildings are taking shape in spite of strikes and other difficulties. To set against the gloomy stories of delays which have lately been put about, I can report two cheering facts: the Royal Engineers finish their Bailey bridge this week, two months ahead of schedule, releasing an important part of the site for building operations, and the LCC is expected to complete the river wall at the end of September instead of the end of the year.

#### A CRESCENT MOAN

Members of the Georgian Group who went with that organization to Bath earlier this year told me of their disappointment at finding allotments in front of the Royal Crescent in place of the beautifully mown lawns of pre-war years. I thought at the time that this was probably a bad oversight on the part of the council and that the vegetation would at least be removed in time for the Crescent to be seen in a more dignified setting by '51 Festival visitors. However, I have now received a cutting from *The Bath and Wilts Herald* which makes it clear that the Allotments Com-

mittee is putting up a fight in defence of its cabbage patch. In the words of its chairman: "There is a tendency for war-time allotments to be taken over, but we are fighting very hard. We encourage the growing of food, and this helps the non-gardening public."

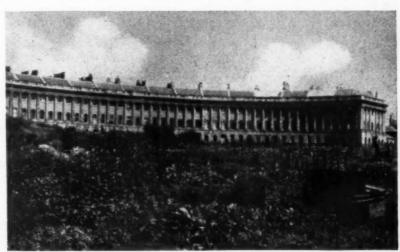
I refer the reader to my illustration at the foot of this page. Is he suitably hepped? I hope so. And I hope that something will be done to remove this eyesore before the trend of world affairs gives the Committee a chance to defend its action on grounds of patriotism. I have no doubt that it would do this at the earliest opportunity. The Committee's members

certainly don't let grass grow under their feet. But they should.

#### ARCHI. BIOGS.

"Erratic, lazy, hedonistic; a financial bungler who died in debt; vague, tolerant, and kindly; he had precisely the right temperament for genius." I have known several people, not altogether unconnected with the architectural profession, for whom that might serve as an epitaph. There was, for instance, old . . . .

But the temptation to libel must—alas!—be resisted. Instead, I must explain that the quotation is from Reginald Turnor's summing up of the character of James Wyatt, in the first of



The Bath Allotments Committee is trying to preserve this cabbage patch in front of the Royal Crescent. (See note on this page).



#### London Housing on View

In order that visitors to London from abroad and from the provinces should have the opportunity of studying the housing schemes built for the Metropolitan Borough Councils, the Housing Centre asked the Councils to submit drawings and photographs of recent work, and these are now on exhibition at the Housing Centre's headquarters at 13, Suffolk Street. Included in the exhibition are the flats at Shepherds Bush, shown above, designed by F. Douglas Barton, Borough Engineer and Surveyor of Hammersmith. Each block comprises two two-bedroom and six three-bedroom flats. Accommodation and equip-

ment are well up to present-day standards, but in other respects the design does not appear to be a good advertisement to visitors from abroad of the British housing effort. The elevation, with its emphasized ground floor and heavy over-hanging eaves, stems from an earlier era. In addition, with regard to the planning of the flats, the grouping of many of the bedrooms round the main staircase, and the placing of some of the living rooms to face north and east is not generally considered good practice. Such criticisms lend force to the argument that in these spheres of building an architect should always be in charge of the design.

a new series of "architectural biographies" published by Art and Technics under the general editorship of Hugh Casson.\* Mr. Turnor writes novels as well as books about architecture, and his account of Wyatt the man is as perceptive and sensible as one would expect. If he doesn't altogether convince you that Wyatt the architect actually had the genius for which his temperament so suited him, it won't be for want of enthusiasm. Nor for want of good illustrations, of which there are more than fifty, ranging from the extravagant Gothick glooms of Fonthill to the chaste neo - classic luminosities of Heveningham Hall.

An admirable idea, this series. The firm of Benn, you may remember, started something rather similar about twenty-five years ago, but with critical rather than biographical texts. The volumes that appeared were very well done (with photographs by Yerbury), but the series never ran to many titles. Let us hope that the present one, in which we are already promised C.F.A. Voysey by John Brandon-Jones, Le Corbusier by Antony Hippisley Coxe, Henry Holland by Dorothy Stroud, and Thomas Archer by Marcus Whiffen, has better luck!

#### THE DANGERS OF BEING A BUILDER

Whenever anyone suggests that builders make too much money, the usual reply is to point to the bankruptcy figures in which builders generally come out top, the argument being, of course, that competition is fierce enough to grind the weakest to the wall. I wonder, sometimes, if a high bankruptcy figure really means very much. A correspondent in The Times suggests that the high figure for builders is probably the result of too many craftsmen starting up as independents and then finding that their commercial ability is very much less than their craftsmanship. Architects, on the other hand, seem relatively immune, perhaps because when the red light glows too brightly there is generally a salaried job somewhere which is good enough to keep the wolf not more than half way up the stairs.

ASTRAGAL

#### \* James Wyatt, by Reginald Turnor. Art and Technics. 8s. 6d.

#### Technical Editor

#### THE BILL OF QUANTITIES

TN his letter, published overleaf, Owen Davis, of Davis, Belfield and Everest, the quantity surveyors, takes the JOURNAL to task for criticism of the present-day bill of quantities, but calls attention himself to certain deficiencies in the scheme of things as it exists. The JOURNAL takes the line that the whole subject is one which needs ventilation and would pose the question whether the present rather cumbrous mechanism is the best for its purpose. It would certainly not press for elaboration of the existing bill. With all established routines there is a very considerable vested interest in "things as they are" and the tendency is only to tinker with them to meet the various changes in the pattern of the industry concerned, until there comes a time when it is obvious to everybody that a more radical overhaul is necessary. In putting forward the case of an inquiry—and it appears from Mr. Davis' letter that such an inquiry is afoot—the JOURNAL would call attention to the following factors:-

First, that the bill of quantities as we know it today had its origin at a time when labour and material costs were stable, and this condition no longer exists.

Second, that the bill of quantities tends to contain a very large proportion of Prime Cost items, to such an extent that the basic purpose of obtaining a competitive tender is often invalidated. The tender is, in effect, competitive only for a modest proportion of the whole.

Third, that as things work out in practice the bill of quantities tends more and more to become a priced schedule, and a final complete measurement has all too frequently to be taken a second time.

Fourth, that the builder has perforce to separate the labour and material costs for his costing and bonusing: the bill of quantities may be a useful basis for this, but the question is still whether it is the most suitable instrument in its present form.

Fifth, and last, other countries have the same problems and solve them in completely different ways. Is anything useful to be learnt from their methods? One cannot be absolutely certain that our bill of quantities is, in fact, the best of all possible methods of dealing with this problem.

#### ATMOSPHERIC POLLUTION

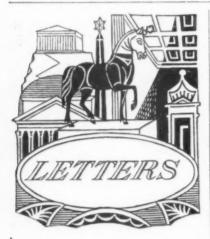
The publication of a report by the Public Analyst in Southwark brings the subject of atmospheric pollution once again to the fore. The measuring of atmospheric pollution in Southwark was started only in March this year, but the first three months' figures show some startling results, especially those relating to the Bankside area which includes the Festival of Britain site.

The figures for March, April and May on this site are, respectively, 43.2, 122.7 and 41.5 tons of deposit per square mile.

The reasons for the exceptionally high April figure, which is equal to the average figure for a similar site in six months in London), are being investigated (a contributory cause was the heavy rainfall that month) and it would be wrong to draw hasty conclusions from such a figure. But the figures for March and May are also very high (roughly twice the monthly average for a similar site) and do indicate that the growth of

atmospheric pollution has not yet been checked.

An item in this week's Information Centre (26.73, page 175) discusses the problem and ways and means of alleviating it. With regard to pollution from industrial sources, the solution depends largely on the national economy and what expenditure can be allocated for grit arresting equipment. large proportion of pollution is due to combustible matter emitted from domestic sources and the responsibility lies with architects to insist on the use of appliances and heating methods which combine high efficiency with a minimum emission of combustible material.



C. B. Dromgoole, L.R.I.B.A.

O. A. Davis, F.R.I.C.S.

#### Dock Terminal: The Architect Replies

Sir,-As the author responsible for the design of the new Terminal building at Southampton Docks, I am confident that informed members of the architectural and engineering professions will hesitate to accept as of any consequence the misinformed and improperly expressed opinion given by Astragal in your issue of August 3, the whole tone and substance of which, to say the least, is most deplorable in a journal with any pretensions at all of a professional character.

It is necessary that I should say at once that the planning of this building, as well, I may say, as the design of the steelwork, I may say, as the design of the steelwork, has been my sole responsibility without any question whatsoever, and it is ludicrous to suggest that the scheme suffers from the restraint exercised by the Docks Engineer or anybody else, as this is utterly fallacious and contrary to fact, and at no time since its genesis has criticism or suggestion been offered by him to warrant the assertion. I feel it a great privilege to have been feel it a great privilege to have been

allowed to take so prominent a part in so important a project offering so much scope for personal inclination, and no architect could have enjoyed, or indeed desired, greater freedom for expression in the medium of his own particular selection or choice while engaged in the discharge of any scharge coming within the sphere of scheme coming within the sphere of an executive engineer's authority.

It seems to have escaped notice that the

original design was submitted to the Royal Fine Art Commission for their consideration of the æsthetic qualities of the scheme, and commended by that body, before its acceptance by the Directorate of the former Southern Railway prior to its nationalization in January, 1948; and it is surely not without note that there has been no important deviation of any kind since its conception, either in the plan or elevational treatment, in the subsequent detailed development of the building, the essential purpose of which, needless to say, is strictly utilitarian, and no excuse is offered for the absence of the usual cliché so much in evidence in contemporary work of today.

It is, of course, unnecessary to add that many difficulties were encountered in seeking the solution to a problem of considerable complexity, quite apart from the severe restrictions imposed on the design by the traffic arrangements and the intricate handling of passengers and their baggage, as well as that presented by the sight-seeing public who visit these docks in large numbers, to who visit these docks in large numbers, to whom due consideration had to be made. The subsequent usage of the building in the admittedly short space of time since its opening by the Prime Minister, has undoubtedly proved its efficiency and justified the departure from the more orthodox facilities hitherto employed for a similar purpose, in any of the docks situated in this country. country.

In view of the erroneous and damaging impression already created in those architec-tural and engineering circles covered by your circulation, I must request that an equivalent degree of publicity should be given to this letter as that accorded to the editorial in question.

May I say, in conclusion, that the major part of nearly 30 years' experience has been spent in private practice, a period of which was in association with a former V-PRIBA?

C. BUCHANAN DROMGOOLE.

Southampton.

[Astragal comments on this letter on page 151.]

#### The Bill of Quantities

SIR,—I was surprised by the editorial comment under the heading of "The Quantity Surveyor" in the JOURNAL for July 27.

The Editors are "prompted to ask whether the present system of competitive tendering is the best method of selecting a builder, and whether it is, in fact, the only way of obtaining an efficient and economic building."

The question is fair enough, although it has been posed—and answered—many times before, but one feels entitled to ask what

before, but one feels entitled to ask what really prompted the question, as the fact that the bill of quantities does not fulfil the three-fold purpose of estimating, costing and bonusing hardly seems to justify the aban-donment of a system which, with local variations, is adopted throughout the world.

One would have thought that the JOURNAL would hesitate to bring up a question which has been dealt with in the Simon Report, has been dealt with in the simon Report, the Working Party Report, and the Productivity Team Report—among others—unless it has some really constructive suggestions to offer for a brave new world.

I would suggest that it is definitely untrue to say that "the majority of medium and the standard heilding forms normally menare.

to say that "the majority of medium and large-sized building firms normally prepare a second, though considerably modified, bill of quantities for the purpose of costing and bonusing their own work from day to day." If one must generalize, I would say that most firms check their costs against certificate valuations and measure up the work actually completed by a gang for bonusing, instead of preparing the modified bill in advance.

The modification of the bill, with various objects in mind, is a matter which is receiving serious consideration at the present time, but it would be very unwise to take it for granted that the bill could be modified to serve the purposes of costing and bonusing as well as estimating so that any saving of time would result in doing so. For the time being it must remain very much a matter of opinion, as, quite apart from the slightly academic question of the possibility of such a procedure, one has to consider the immediate effect. The Productivity Team Report has stressed the loss of efficiency through an inadequate initial plan and failure to adhere to the plan later, which means that the bill of quantities cannot fulfil its function properly—hence the measurement and valuation and the elaborate "final account," which is apparently unknown in America. unknown in America.

This wastage would be enormously increased if the bill were to be made much larger, more complicated and more rigid, as envisaged by the JOURNAL, and I suggest that it will be soon enough to discuss such possibilities when the inefficiency referred to has been removed.

Simplification, not elaboration, should be the immediate aim. One gathers that American surveyors working more or less singlehanded, produce in one or two days, the rough (perhaps very rough) equivalent of what quantity surveyors here, aided by large what quality surveyors here, aided by large staffs, take several months to produce. This is indeed a challenge and although it is generally accepted that our method is the better of the two, there are obviously very good grounds for thinking that it has become unwieldy.

I think the JOURNAL would perform a real service in issuing this challenge but the plea for simplification should be made to builders rather than to surveyors, as it is the builders who must say what is the minimum information they can accept for ten-dering purposes. Machinery already exists for adapting the standard method of neasurement and although I speak for myself alone and not for the RICS, I have no doubt that any proposals for simplification will receive their consideration.

O. A. DAVIS, Davis, Belfield and Everest, Quantity Surveyors.

London.



#### LCC

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#### Schools' Architect Appointed

Sydney Howard has been appointed Schools' Architect in the department of the Architect to the LCC. Mr. Howard was previously architect in charge of housing under the LCC Director of Housing and Valuer.

#### Additions to County Hall

As soon as conditions permit, the LCC propose to make additions to County Hall, Westminster. The main building of the County Hall, which was commenced in 1912 and completed in 1932, was originally planned to accommodate some 2,850 office staff; at present it holds some 3,500 officers, and 500 of these are housed in rough solly. and 500 of these are housed in rooms only temporarily repaired after war damage. The existing portions of the north and south blocks, which were completed in 1939 and accommodate about 1,400, are also very fully occupied. A further 450 central office fully occupied. A further 450 central office staff are accommodated in outside offices in Westminster and St. Marylebone. It is intended that the north and south blocks shall be completed and that the wardamaged accommodation shall be permanently repaired. The permanent repairs, which would take several years, cannot be put in hand till other accommodation is provided. The completion of the north and south blocks would not only provide this accommodation for the displaced officers, but would house the central staff now at but would house the central staff now at outside offices.

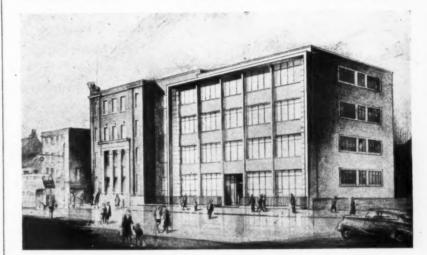
Expenditure involved is tentatively esti-mated at £1,280,000 for the completion of the north and south blocks and £737,500 (mostly recoverable from the WDC) for reinstatement of war-damaged accommodation. Commencement and progress of the work will depend on the general economic situation and the Council's programme of capital expenditure in other directions, and will be subject to the consent of the MOH. will be subject to the consent of the MOH. Subject to these considerations, it may be possible to commence the first section of the work, namely, the completion of the north block, in 1952. It is estimated that the building work as a whole and the expenditure would be spread over ten years. Meanwhile, it is proposed to go ahead with preliminary work costing £6,000 in the current financial year; most of this sum is for preparation of the working drawings. Designs for the new blocks will probably be prepared in the office of the Architect to the Council.

NORTHERN IRELAND BUNGALOW IN



This house in Belfast, designed by H. W. Scatchard, was completed early in 1948 when materials were in short supply and skilled labour was not easily obtainable. In view of the existing conditions, the architect decided to adopt an essentially traditional shape which could be well constructed with available materials and labour resources. The main outer walls are II-in. cavity construction, weatherpointed and finished with a white rendering. The roof is of old English hand-made clay pan tiles. Windows are timber casements, and all eaves have been left exposed.

#### COLLEGE OF COMMERCE LIVERPOOL



course of construction in Tithe Barn Street, Liverpool, a site in the centre of the city

This College of Commerce, which is in was designed by the City Architect and Director of Housing, Dr. Ronald Bradbury.

#### BIF

#### 1951 Exhibition

The 1951 BIF will be held in London, at Earls Court and Olympia, and in Birmingham, at Castle Bromwich from April 30 to May 11.

#### RIBA

#### Golfing Society's Results

The annual match between the RIBA Golfing Society and the RICS Golfing Society was played at New Zealand Golf Club, Byfleet, Surrey, recently. The architects won by 10½ games to 4½.

#### LIVERPOOL

#### Architect Honoured by Belgium

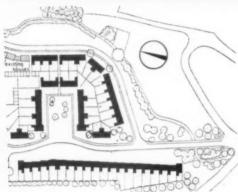
Herbert J. Rowse, designer of the Liverpool Philharmonic Hall and of the Mersey Tunnel buildings, has been honoured by Belgium.

In recognition of his services as the only British member of an international jury appointed to judge an architectural competition in connection with the erection of a national library as a memorial to the late King Albert I of Belgium, Mr. Rowse has been presented with a medal commemorating the honour of Officier de l'Ordre de

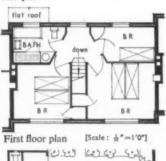
It was conferred by the Prince Regent of

#### MOH MEDAL AWARDED FOR WELSH HOUSING





Site plan





Typical house: ground floor plan

S. Colwyn Foulkes has been awarded the MOH bronze medal for the best urban housing scheme in Wales, at Llanrwst, Denbigh. By arranging the houses in rows, instead of in the conventional pairs, the architect has ensured that it is easy to retain warmth in them, in site of their exposed position, and that better kitchen equipment can be provided as a result of the consequent economy in structural work. The architect considers this system of grouping in a series of terraces to be the most satisfactory way of laying out an estate on a hilly site and that it allows foundation costs to be kept at a low level. Two doors are provided in each covered porch; one for the coalman, children with dirty boots and so on, and the other for visitors. General contractor: F. Tyldersley. Sub-contractors; page 176.

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Belgium, and the presentation was made by the Belgian Consul, Mr. Harding Hunt. The adjudication took place shortly before

The adjudication took place shortly before the war, and the building is now in course of erection. It will be known as the Fonds Bibliotheque Albert 1.

#### ASHRIDGE

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#### Lectures on Industrial Design

A lecture course on industrial design will be held at Ashridge from Friday, October 20, to Monday, October 23. An introductory address will be given by Leslie Hardern, chairman of the Design and Industries Association; H. S. Goodhart-Rendel, president of the Design and Industries Association, will talk about design up to the time of the 1851 Exhibition; Wyndham Goodden, chief officer of the Scottish Committee of the CID, will discuss problems of taste in an industrial society; and Professor Nikolaus Pevsner, Ph.D., Slade Professor of Fine Art, University of Cambridge, will lecture on trends of design from 1851 to the formation of the Design and Industries Association. There will also be a discussion on "Public or Private Patronage for Design." An inclusive fee of £3 10s. is payable on



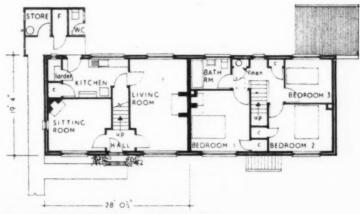


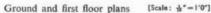
The Reilly Medal and Prize has now been established at the Liverpool School of Architecture, the University of Liverpool, made famous by Sir Charles Reilly, who was Roscoe Professor of Architecture there for 26 years. The medal is in bronze, and is the work of H. Wilson Parker, sculptor. It will be awarded annually with a prize of £35 to the Fifth (Final) year student whose thesis design is considered the best.

RURAL HOUSES IN ESSEX



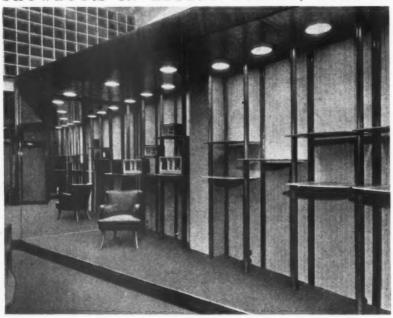
The pair of agricultural cottages at Great Waltham illustrated here were designed by Stanley Bragg. Each has a through living room, small parlour, central staircase and a small outhouse including a coal store, w.c. and copper. The walls are 11-in. cavity fletton brickwork rendered white, with  $4\frac{1}{2}$ -in. brick partitions. There is a 6-in. concrete ground floor and a timber joist and boarded first floor. Contract price: £2,556. The general contractor, W. Dobie. Sub-contractors: page 176.



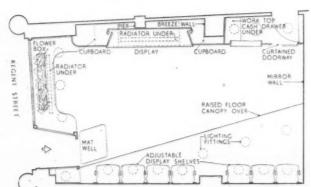




#### SHOWROOM IN REGENT STREET, LONDON



The showroom for Radio Rentals Ltd., in Regent Street, London, was converted to its present use by Laszlo Hoenig. The wall facing the door is of breeze blocks faced with mirror, and glass blocks. Mahogany veneer is used throughout. The ceiling is painted blue. Above, the adjustable display shelves. Below, two views of the south wall. Sub-contractors: page 176.





Floor plan [Scale: 12" = 1'0"]





enrolment. Enquiries and applications should be sent to the secretary, Ashridge, Berkhamsted, Herts. Several local education authorities have agreed to subsidise students who cannot afford the full fee. Enquiries about subsidies should be made to county education officers.

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#### MOH

# Report on Five Years' Housing Progress

Birmingham, with 13,119 new and rebuilt houses, heads the list of the 1,470 housing authorities in England and Wales in a report of housing activity from April, 1945, to June 30 last, issued by the MOH last week. Bristol comes next with 10,464, followed by Liverpool (9,553), Manchester (9,380), Plymouth (7,231), and Sheffield (6,880). All are county boroughs.

Plymouth (7,251), and Sheffield (0,860). An are county boroughs.

Woolwich, with a total of 2,906, led the Metropolitan boroughs; Hornchurch, Essex, led the urban districts with 2,655; and Chesterfield the rural districts with 1,717.

Canterbury produced more new permanent houses in proportion to population than any other country borough; 868 new houses were built there—one for every 30 inhabitants. Of the boroughs, Beccles produced one new permanent house for every 21.7 of the constitution.

population.

The LCC and the Metropolitan boroughs combined built 57,931 houses, permanent and temporary, or one to every 58 persons. The LCC's total was 34,949 and the Metropolitan boroughs' 22,982.

#### MOTCP

#### Grants to Bombed Cities

Details of how the £4,000,000 allocated for the reconstruction of the central areas of blitzed cities in 1951 will be distributed have now been decided by the Minister of Town and Country Planning and have been communicated to the cities concerned

have now been decided by the Minister of Town and Country Planning and have been communicated to the cities concerned. The following list shows how the sum will be divided between the different cities: South Shields, £60,000; Hull, £300,000; Sheffield, £350,000; Great Yarmouth, £80,000; Lowestoft, £40,000; Norwich, £120,000; Portsmouth, £450,000; Southampton, £250,000; Bristol, £250,000; Exeter, £350,000; Plymouth, £550,000; Swansea, £250,000; Birmingham, £100,000; Coventry, £550,000; Liverpool, £100,000; Manchester, £100,000; Dover, £75,000; Canterbury, £140,000.

This allocation is for expenditure on building and civil engineering works, whether by private developers or by local authorities, and does not include expenditure on the acquisition and clearing of land or on roads and services.

The Minister of Town and Country Planning has made it clear, states the announcement, that he intends to review the progress of the schemes undertaken in the course of next year, amending the allocations wherever it seems likely that a local authority will not use its whole allotment.

#### Trawsfynydd Inquiry Decision

Hugh Dalton, Minister of Town and Country Planning, announces that the Government have decided to agree to the War Office proposal to extend the training area at Trawsfynydd for use as a practical training area. The existing training area of 8,020 acres has been used as an artillery range since 1908. The War Office

#### A HANDBAG SHOP IN NEW BOND STREET, LONDON

The Susan handbag shop was designed by Werner Heumann for the purpose of selling jewellery, gloves, umbrellas and leather goods. The showroom is separated from the combined office and store by a partition wall. A cupboard has been built into the resulting recess. Glass shelves above the cupboard are used for display purposes. Other display units are The window on the south movable. side faces a passage and is used for display purposes. The ceiling is painted pale blue, the walls pale pink and grey. Carpets and curtains are grey also. Chairs are upholstered with a red woellen material. Woodwork is either zebrano or sycamore. Spot bulbs set in the ceiling form the main source of light. Indirect fluorescent lights and adjustable spot bulbs are also used. On the right is a view of the entrance : below, two views of display stands. The general contractors were Messrs. Hickman, Ltd. (Storefitters). A list of subcontractors appears on page 176.

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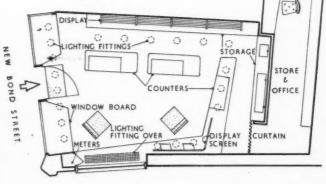


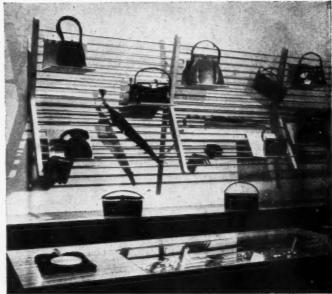
Plan of shop
[Scale: ½"=1'0"] Z

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proposal to increase this to 18,000 acres has been modified as a result of objections, and the proposal now is to add 5,120 acres to the existing range. The War Office will avoid all unnecessary interference with agriculture, and do not intend that any farmer should be displaced. They will discuss arrangements for roads, tracks, with the local agricultural interests and for siting and construction of buildings with the local authorities.

#### Colliery Tipping Forbidden at Nottingham

Hugh Dalton, Minister of Town and Country Planning, has decided not to allow the National Coal Board to tip colliery waste on two sites within the Nottingham City boundary. This decision follows the holding of a local enquiry after the Coal Board had appealed against a decision of the Nottingham City Council. The proposed sites are near the Bilborough Housing Estate and also near an area Housing Estate and also near an area reserved for light industry, both of which would suffer from the proximity of tips.

#### MOH

#### Housing Progress in June

The MOH announces that the number of The MOH announces that the number of permanent houses completed in Great Britain during June, was 18,107, compared with 17,030 in May and 14,862 in April. This brings the number of permanent houses completed during the year to date to 97,809. The total number of houses completed under the post-war programme is now 878,302 (721,156 permanent and 157,146 temporary).

#### RIBA

#### Recent Announcements

The RIBA announce the following appointments:—RIBA announce the following appointments:—RIBA Representatives on the Architects' Registration Council of the United Kingdom, J. T. Castle and T. E. North in place of Martin S. Briggs and Lieut.-Colonel V. H. Seymer; Building and Civil Engineering Regional Joint Production Committee for Region No. 12: RIBA Representation, H. Edgar Bunce in place of Cecil Burney International Union of Archite Cecil Burns; International Union of Archi-

Cecil Burns; International Union of Architects—Assembly Paris, October, 1950, Delegates of British National Committee, Anthony Chitty and the Hon, Godfrey Samuel; National House-Builders' Registration Council: RIBA Representation, C. H. James re-appointed. (The other two representatives are A. W. Kenyon and K. J. R. Peacock.)

The RIBA Council has approved the recommendation of the jury entrusted with the award of the RIBA Architecture Bronze Medal in the area of the Nottingham, Derby and Lincoln Architectural Society for the period of three years ending December 31, 1949, that the award shall be made to F. Hamer Crossley, architect for the Littleover County Infants School at Derby.

Derby.

The Council has approved recommendations made by the Institute's representatives that the time limit for the completion of the consideration of comments on outstanding draft Codes of Practice be extended to June 30, 1951.

#### PAIR OF HOUSES AT HENLEY-IN-

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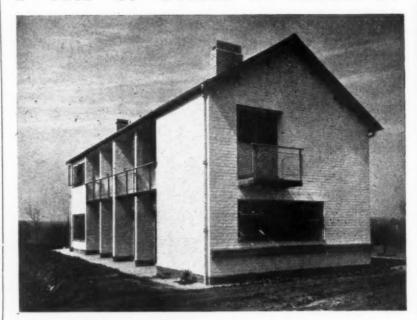
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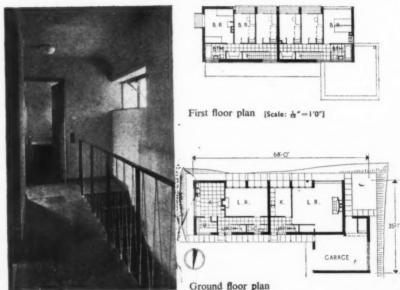
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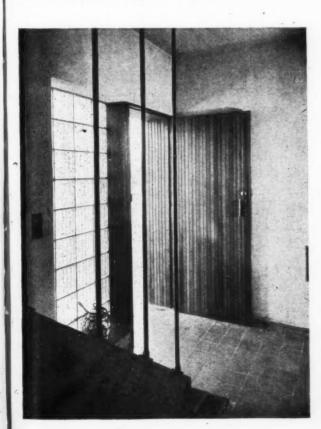






#### ARDEN, WARWICKSHIRE

Two three-bedroom houses at Henley-in-Arden, designed by Erno Goldfinger, are illustrated here and on the opposite page. The site is on the crest of a hill with a good view all round, especially to the south. Both houses have a floor area of 1,000 square feet but the plans are different. The east house has a dining-kitchen, which faces east, a sitting room on the ground floor and three bedrooms and a bathroom on the first floor. The west house has a general working kitchen and a large living-dining room on the ground floor, and three bedrooms and a bathroom on the first floor. Living rooms and bedrooms are on the south side; passages, stairs and bathrooms are on the north side. Construction :- the 11-in. cavity walls are of brick. Partition walls are of hollow tiles and also of 4½-in. brick. Floors are of teak. Roofs are covered with cedar shingles. Brickwork has been treated with a light coloured cement wash. Living rooms are fitted with fireplaces. Other rooms are heated by electric convection heaters. Views show: above left, the exterior from the south-east; centre left, a landing; below left, a living room; below, an entrance; below right, a kitchen; right, a general view from the south-east. The general contractors were W. Sapcote & Sons, of Birmingham. A list of sub-contractors appears on page 176.







On the recommendations of the Com-petitions Committee the Council has On the recommendations petitions. Committee the Council has approved the draft of a model form of between a promoter and the agreement between a promoter and the successful competitor in an architectural competition. The form will be printed and will then be available on the same basis as the model forms of agreement between a client and an architect for general purposes, for housing and for flats.

#### School's Exemption from Final Exam

The RIBA Council, on the recommendation of the Board of Architectural Education, have recognised the five years' full-time Diploma Course at the School of Architecture, School of Technology, Art and Commerce, Oxford, for the purpose of exemption from the RIBA Final Examination under the usual conditions. tion under the usual conditions.

#### SCOTLAND

Developments in Fife

A broad reconsideration of the plans for A broad reconsideration of the plans for developing Fife County, following a revised estimate of the number of miners needed in the county over the next 25 years, was discussed at a meeting held in St. Andrew's House recently between Hector McNeil, M.P., Secretary of State for Scotland, and representatives of the planning authorities of Fife County, the Scottish Council (Development and Industry), the National Coal Board, and the Government Departments concerned. It was decided that detailed discussions should begin in the next few weeks.

the next few weeks.

The Secretary of State said that in their revised programme the Coal Board had considerably reduced their estimated manpower requirements and had changed the pace of their operations in the different areas. This would have several im-portant consequences. There would be a portant consequences. There would be a heavy run down of mining in Central Fife which would bring about a movement of population from that area into the expanding mining areas. During the next 25 years East and West Fife would be in a position to absorb all the surplus miners that might be discharged from Central Fife; they would need these men urgently and Central Fife would be the present and and Central Fife would be the nearest and the most natural area from which to take them. In view of recruiting difficulties the mining industry would wish to retain all the miners that it could. The Coal Board also agreed that the new mining force needed in East and West Fife should, as far as possible, be housed in those two areas.

In these circumstances a considerable drift of population from Central Fife to the ex-panding areas would have to be envisaged. This movement might be facilitated by the fact that many members of miners' families in Central Fife were already em-

ployed in the expanding areas.

In view of the extensive exhaustion of pits in Central Fife it would hardly be necessary to carry on with the idea of a necessary to carry on with the idea of a new town at Lochgelly. In East Fife 700 fewer new miners than

was expected would be required, and therefore, the proposed community development expansions in East Fife would probably have to be modified. It was clear, however, that the rapid development of the Rothes Mine which would need over 2,000 new miners by 1960 would not after the new miners by 1960 would not alter the necessity for the rapid development of a new town there, although it might be smaller than osiginally expected.

Exhibition: William and Mary and Their Time. At V and A Museum. (Sponsor, Arts Council.) Weekdays, 10 a.m. to 6 p.m.; Time. Sundays, 2.30 p.m. to 6 p.m.
UNTIL AUGUST 20

Metropolitan Boroughs' Housing Schemes. Layouts; plans and photographs of recently completed housing schemes built for some of the Metropolitan Borough Councils. At 13, Suffolk Street, S.W.1. Daily 10 a.m.-5.30 p.m.; Saturdays, 10 a.m.-12 noon. UNTIL SEPT. 15

International Congress for Housing and Town Planning. At City University, Am-sterdam. Enquiries to Singel, 453, Amsterdam. C.

AUGUST 27-SEPT. 2

Town and Country Planning Summer School. At University of Nottingham. (Sponsors, TPI, 18, Ashley Place, S.W.1.) SEPT. 6-13

This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession.

#### ERNEST WATKINS

#### The Architect and Current Affairs

The new regulations governing exemptions from liability for development charge, promised by the Minister of Town and Country Planning in June, have now been made, and approved by Parliament (Town and Country Planning (Development Charge Exemption) Regulation, 1950 (SI 1950 No. 1233) and a corresponding Order has been made for Scotland. These Regulations replace those made in 1948 (SI 1948 No. 1188), and their general effect is to reduce the number of cases in which a charge is

payable.
To particularize. The following developments are free from development charge:
Buildings existing on July 1, 1948 (included war destroyed and damaged buildings). A

rebuilding or enlargement which does not add more than one-tenth (in the case of a dwelling-house, one-tenth or 7,500 cubic feet, whichever is the greater). Note: dwelling-house, one-tenth or 7,500 cubic feet, whichever is the greater). Note: separate buildings within the curtilage of another building, and to be used in connection with that building, are treated as en-

largements of the existing building.
Buildings erected since July 1, 1948. Similar additions or enlargements may be made to the existing building. On a rebuilding, the additional cubic content may be incor-porated on the occasion of the first rebuild-The exemption does not cover subse-

ing. The exemption does not cover subsequent enlargements.
Conversions into flats. Up to three adjacent buildings existing on July 1, 1948, may be converted into any number of separate dwelling-houses. This allows for lateral conversions of existing buildings into flats; hitherto only vertical conversions have been free from development charge. (A corresponding provision frees changes to buildings made under Part II of the Housing Act, 1949.)

Changes of use.

A dwelling-house may now be used as a shop, provided the part used as a shop does not have an aggregate floor space of more than 200 sq. ft. and its use is combined with the use of the rest of the building as a dwelling-house.

Changes of use from one use class to another are also freed, namely:

another are also freed, namely:
From an existing dwelling-house to a use within use classes XII, XIV, XV, XVI, and XVII. Between Classes I and II and to and from a fried fish shop, a tripe shop, a catsmeat shop or a shop for the sale of pet animals and birds. From a use in Class IV to a use in Class III. Interchange between Classes V, VI, VII, VIII and IX, or between Classes XIV, XV, XVI, and XVII.
The general effect of these new provisions to allow freer changes in shop trades to

The general effect of these new provisions is to allow freer changes in shop trades, to allow a dwelling-house to be used as a school, nursing home, boarding house, consulting room, etc., and to allow changes in the industries carried on in factory buildings, without requiring the payment of a dayslopment charge. development charge.

The remaining paragraphs of the Regulations either repeat the provisions of the 1948 Regulations, with small modifications, or are concerned with the operations of local or statutory authorities. In any case, may I repeat my warning that the Regulations therealize the operations of the constitution of the

case, may I repeat my warning that the Regulations themselves should be consulted before any project gets very far.

The relaxations do give greater freedom in dealing with existing buildings. They trim and tidy the fringes of this problem of the development charge and certainly will save the small property owner from a great many frustrations and revilings of the Ministry. But they make very little difference to the central problem: the development charge on a new building.

One final point. It has already been suggested that these changes will affect the distribution of the £300 million compensation fund on the ground that, if a man now may make these small increases in his

tion fund on the ground that, if a man now may make these small increases in his property, his loss of development right will become too small to rank for a payment from the fund when the day of payment comes. I think it is far too early to be dogmatic over this. The scheme under which the fund is to be distributed has to be worked out by the Treasury, and there is no obligation on the Treasury even to start working it out before the various start working it out before the various claims put in are assessed in value. But I think that it will be hard for the Treasury to argue—with any belief in the justice of their cause, that is—that a concession of the kind made in these Regulations, and in Regulations which can be revoked or amended at any time, is the equivalent of the amended at any time, is the equivalent of the real freedom to develop that existed before July, 1948. There is one ultimate safeguard: the final Treasury scheme must be affirmatively approved by both Houses of Parliament. I hope that, when the time comes, members will see that the 1950 Regulations are not used as a means of excluding a vast number of small claims in order that the share of the bigger claimants may be large enough in cash to keep them. may be large enough, in cash, to keep them

The Architects' Journal for August 17, 1950

#### FACTORY

at INCHICORE, DUBLIN designed by MICHAEL SCOTT

The site of the new factory for the now nationalized Irish transport system known as Coras Iompair Eireann is in a corner of the main Irish railway works at Inchicore, a suburb of Dublin. The works were used exclusively for the railways, but as the transport authority now controls road as well as rail traffic, it was decided to build the factory in the railway works on a self-contained site with a separate entrance. The factory has been designed primarily for the production of bus and lorry chassis and relative parts.

View from the south-east.



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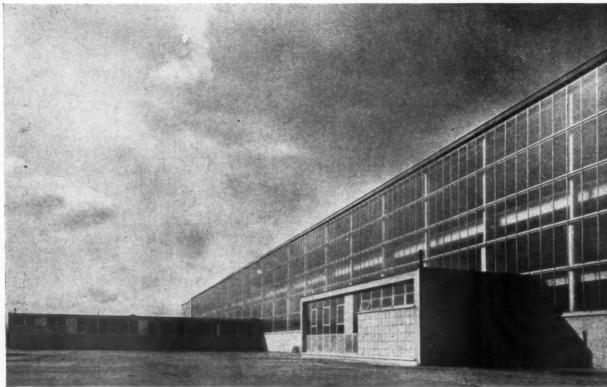
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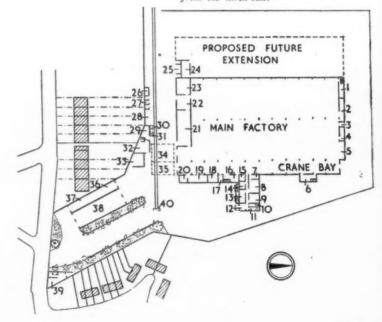


Main factory with office wing on the left, from the north-east.

#### FACTORY

at INCHICORE, DUBLIN designed by MICHAEL SCOTT

PLAN.-As well as accommodation for the manufacturing processes and testing there are offices for administration, planning and production. A separate building has been erected on an adjacent site for the manufacture of precision tools for the factory, and the boiler house, compressor house, petrol, oil and water storage are placed along the irregular south boundary. For the main factory it was considered that an area of 330 ft. by 150 ft. with only one central row of columns at 30 ft. centres would permit the desired flexibility in the layout of plant. There is also a possibility that other products, such as power units for diesel electric locomotives, may be assembled later and these require a large unobstructed floor area. The crane bay was placed on the east side so that it would run the full length of the main factory, be conveniently situated for the entrance and leave the west side free for future extension. Sections for specialised processes are placed at the north and south ends of the factory where they have direct connection with the main production area. The testing building



KEY 1 Toilet 2 Store 3 Emergency exit

4 Millwrights and Main-tenance 5 Test Benches

6 10, 16 Gents' Toilet 7 Print Store

8 Materials and Produc-

9 Planning Department II Ladies' Toilet

12 Lobby

13 Typists

14 Manager

15 Foreman 17 First Aid

18 Conference Room

19 Cloakroom 20 Drying Room

21 Heat Treatment

22 Shot Blast 23 Plating and Polishing

24 Switch Room

25 Transformers

26 Fuel Oil Tanks

27 Swarf Bins

Site plan

28 Swarf House 29 Oil Store

30 Fuel Oil Tank

31 Petrol Tank

32 Boiler House

33 Compressors

34 Unpacking Bay 35 Crane Bay Extension

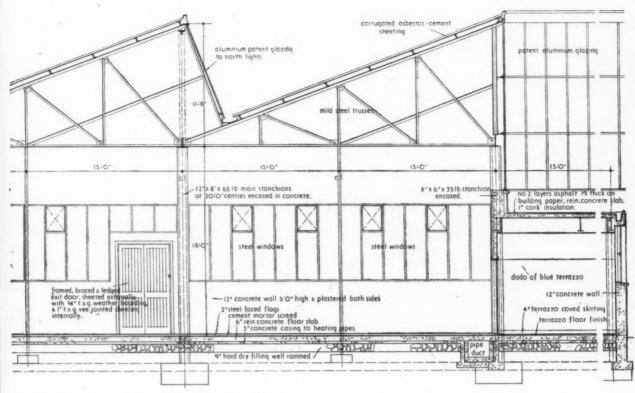
36 Washing

37 Painting

38 Chassis Testing

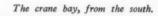
39 Gate Lodge

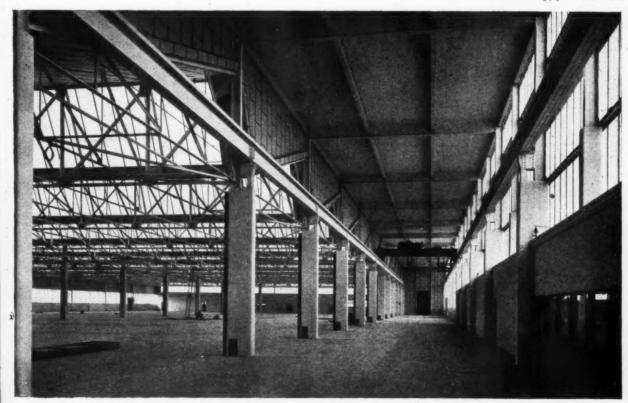
40 Railway Siding



Part elevation and section through factory

[Scale: 1/2 = 1'0"]





plan

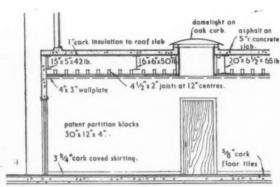
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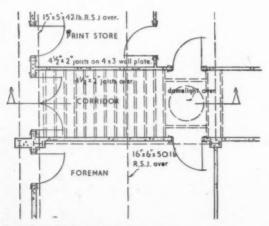
Main factory with office block on the right, looking north-west.

#### FACTORY

at INCHICORE, DUBLIN designed by MICHAEL SCOTT



Section A-A



Part plan of office corridor [Scale: 1'=1'0']

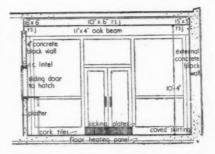
is placed near the entrance as the chassis are driven from there on to the public road.

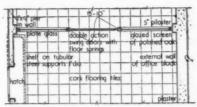
CONSTRUCTION.—The building is steel framed with steel roof trusses over the main factory area and the walls are of 9-in, concrete blocks. The internal walls are of 6-in. concrete blocks and the office partitions are of 3-in. blocks. Floors generally are of concrete. It was stipulated by the Dublin Corporation that all structural steel stanchions were to be encased in concrete as protection against fire.

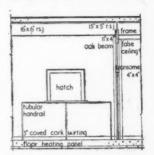
FINISHES.—The roofs over the main factory area are of corrugated asbestos, with plaster board backed with aluminium foil as insulation. Flat roofs are asphalted, with ceilings under flat concrete roof slabs lined with cork and plastered. The east side of the crane bay is finished with vertical patent glazing on a steel framewok. External walls of offices, cloakrooms and lavatories have continuous steel windows extending from the plinth to the roof beam. The lower portions of the windows have panels faced with aluminium externally. The walls of the offices are plastered and in the lavatories floors and walls are finished in terrazzo. Floors in the offices are finished with linoleum. The entrance

porch of the office block has a timber canopy with striated plywood soffit and is supported on tubular metal columns. All exposed steelwork is painted white for maximum light reflection, Lavatory doors are painted blue, emergency exits doors are red, office doors yellow and ordinary exit doors green. Externally doors are painted the two shades of green used on road and rail vehicles. It was originally intended to use steel faced flags for floors, but import difficulties made it impossible and the concrete floors have a screed treated with a hardening preparation in the main factory.

SERVICES.—The factory is provided with hot and cold water, compressed air and gas, and electricity for light and power. The water supply is from the corporation main to a 5,000-gall. storage tank raised 33 ft. above the ground on reinforced-concrete piers. Water for the fire-fighting ring main is taken from the nearby canal. Main pipes are carried in ducts with access panels at various points and vertical pipes are carried in chases. Rain-water pipes are brought down inside the continuous glazing at the ends of partitions. The panel controls for the heating are in recesses at the foot of each stanchion and the concrete casing to these stanchions also conceals compressed-air pipes. The elimination Ltd., Dublin, For list of sub-contractors see page 176.









Plans and sections of doors and screen in entrance lobby [Scale: \frac{1}{2}"=1'0" Detail: \frac{1}{2}"=1'0"

flexibility. The lighting is by alternate 500-watt tungsten and 250-watt mercury discharge lamps in dispensive fittings to give a blended light. General lighting only is installed with no upward lighting for ceiling. The intensity at the working plane is 15 to 20 foot candles. The offices have tubular fluorescent lighting.

The general contractors were G. & T. Crampton,

Interior of main factory.



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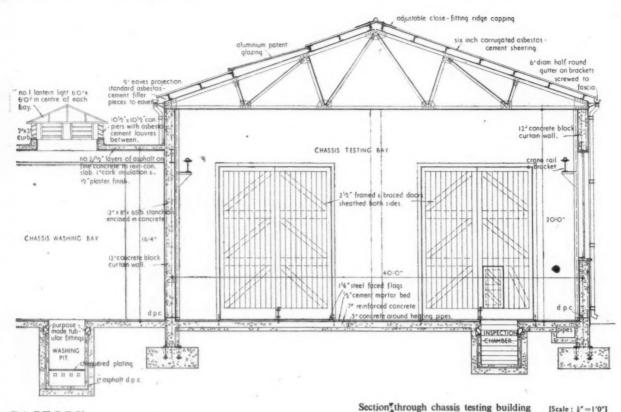
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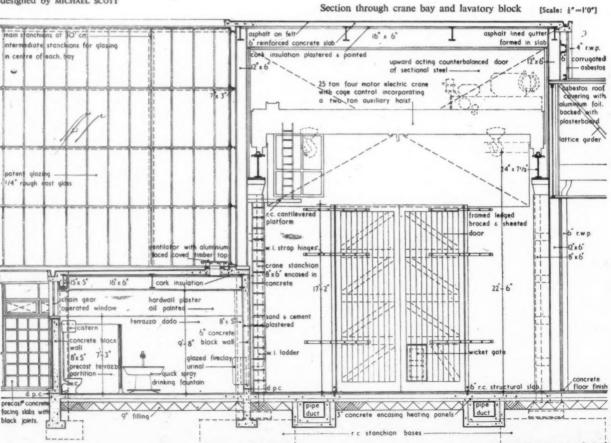


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[Scale: \"=1'0"]

#### FACTORY

at INCHICORE, DUBLIN designed by MICHAEL SCOTT



INFORMATION CENTRE QUESTIONS AND ANSWERS . CURRENT TECHNIQUE THE INDUSTRY · PRICES ·

INFORMATION SHEETS TECHNICAL ARTICLES

### TECHNICAL SECTION

Concluding the short series of articles on heating\*, Dr. Weston, of BRS, discusses the advantages of combining both continuous and intermittent systems.

### MIXED HEATING SYSTEMS

By J. C. Weston.

Although most heating arrangements are 'mixed' in the sense that they provide part of their heat in the form of radiation and part by convection, circumstances can arise in which it is necessary to have two quite separate heating installations in a building. While in some cases, one of these may primarily provide heat by convection and the other by radiation, as for example with a combination of hot water radiators and an open fire, this is not generally the case and there are other reasons for accepting the additional complexity of a dual system. Such an installation will usually be more expensive than a simple one and only where there is some other posi-tive advantage would the mixed system be

#### SPEED OF RESPONSE

Probably the most important example of a "split" system occurs when one heating system which is capable of rapid heating up is combined with one which cannot respond rapidly to changes of demand but has some other desirable features. For example, with an embedded panel heating system, where the heating coils are in intimate contact with a concrete floor or ceiling, the room temperature cannot usually change rapidly, since a large mass of material in which the heating pipes are embedded must be warmed to a fairly high temperature. Similarly, where warm air is circulated through ducts forming part of the floor or ceiling construction, the system will respond relatively slowly to changes in demand. This does not, of course, apply where the panels are suspended on a framing with insulation of low thermal capacity behind them, and to a lesser extent where there is a layer of insulation between the pipes and the concrete. A heating system which cannot respond rapidly is quite suitable for heating a building which is occupied more or less continuously and does not therefore have rapid changes in heat demand. Panel heating, however, has such definite advantages, in providing a uniform degree of heating throughout the whole room and in eliminating the obstruction due to heating apparatus within the room, that it may be considered for a building with only internity. considered for a building with only intermittent occupancy; for example, a school, museum or theatre. In such circumstances the panel heating would be designed to pro-vide background heating to, say, between

50 deg. F. and 55 deg. F., and for "topping up" the temperature to 65 deg. F. When the building is occupied, a system capable of more rapid response is required, such as a forced warm air heating. In this way, so far as possible, the desirable features of both installations are combined. The system which cannot heat up rapidly could be used alone but, if this were done, the average temperature would be much higher than necessary, with a consequent wastage of heat.

Fig. 1 illustrates the basic principles involved in the combination of a heating system which is slow to respond, say embedded panel heat-ing, with one which is more rapid, say convectors, in a building to be occupied only for a relatively short time each day. The dotted line indicates the possible situation if, instead of using the convector heating, the flow temperature to the panel heating were increased in an attempt to raise the room temperature to 65 deg. F. The rate of heating and cooling depends, of course, not only on the heating installation, but on the ther-mal capacity of the building, and if the building is of very heavy construction it will cool so slowly that the heating may be more or less continuous and the complica-tion of a dual system unjustifiable. In each case, the heating system, construction and intended use of the building must be jointly considered.

### FLOOR HEATING

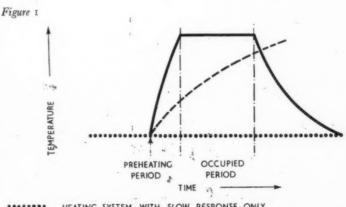
Another instance where a mixed system may be used arises where floor heating is used in a single storey building. Although in some cases it is possible to heat such a building adequately by floor heating alone, it can happen that, because of the fact that the floor temperature cannot be raised beyond about 75 deg. F. without discomfort to the occupants, the output is inadequate in cold weather. In America somewhat higher floor temperatures, up to 85 deg. F., are used but experience in this country is that such temperatures produce the unpleasant sensations associated with "hot feet." The advantages of floor heating in providing a uniform tem-

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Plan of classroom requiring supplementary heating

perature distribution and reasonable tem-peratures at and near the floor are so great, particularly in such places as infant class-rooms where children may be sitting on the floor or health centres and hospitals where people may walk bare footed, that notwith-standing the limitation of output, floor heating may be used and supplemented by aning may be used and supplemented by another heating system such as radiators or convectors. In buildings occupied only intermittently, such as schools, the consideration of rate of heating up discussed previously also applies. The school classroom illustrated above is an example of an installation where supplementary heating would be necessary. To produce an air temperature of 60 deg. F., as is required in classrooms, with the usual 3 air changes per hour, the output from a heated floor havclassrooms, with the usual 3 air changes per hour, the output from a heated floor having a surface temperature of 75 deg. F. would not be adequate unless the air changes were reduced to about 1½ per hour. Nevertheless where the higher ventilation rate is necessary, and in such special cases as "open air" schools, supplementary heating may be required; each case must, of course, be considered on its merit. The photographs overleaf show a single storey school in which floor



HEATING SYSTEM WITH SLOW RESPONSE ONLY HEATING SYSTEM WITH SLOW RESPONSE, BUT FLOW TEMPERATURE INCREASED AT BEGINNING OF PREHEATING PERIOD. HEATING SYSTEM WITH SLOW RESPONSE. TOGETHER WITH A MORE RAPIDLY RESPONDING SYSTEM DURING PREHEATING & OCCUPIED PERIODS.

\*See AJ July 27, 1950, p. 93, "Whole House Warming," and AJ Aug. 3, 1950, p. 119, "Intermittent Heating."

heating is combined with low level convectors below the windows. There is, of course, even more necessity in the colder American climate for the supplementary heating. Where a mixed system of this type is used the question arises how the two systems are to be combined, since the water flow temperatures used in floor heating will be quite low, around 100 deg. F., while the supple-mentary heating in radiators or convectors will require water at a much higher tem-perature, say 140-180 deg. F. Separate calorifiers could be used for the two systems catoriners could be used for the two systems but it is often cheaper to combine them. To do this, additional insulation is provided round the heating pipes, so that the flow temperature to the floor heating installation can be increased. Some provision for expansion of the pipes may also be necessary and a "D" section asbestos cement form, loosely fitting the pipework is cometimes used. the pipework, is sometimes used.

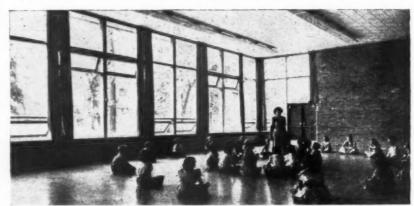
#### THE OPEN FIRE

In these two examples, the reason for the mixing of the heating arrangements has been largely technical but there remain those installations where the combination may be desirable from the point of view of comfort. Without going into too much detail, these are installations where the main heating source provides its heat mainly by convection and the complementary heating takes the and the supplementary heating takes the form of a high temperature radiant source intended to provide a stimulating environ-ment and a "psychological focus" for activity within the rooms. The provision of an open fire in a room heated by radiators is a typi-cal example. While in this country there is a very strong prejudice in favour of the addition of the open fire and some physio-logical evidence that such an environment is more stimulating than a room heated only by convection, it is difficult to avoid accept-ance of the American view, that in such circumstances the open fire is to be regarded more as part of the "interior decoration" than of the heating system. Where the open fire is the main space heating appliance, as is commonly the case, the situation is of course somewhat different. Here it is neces-sary, unless the occupants are to remain huddled over the fire during the winter to by convection, it is difficult to avoid accepthuddled over the fire during the winter, to provide supplementary convection heating to warm the far corners of the rooms. Modern open fires are often designed to provide convected warm air for this purpose and for distribution to other rooms.

Where a dual system of heating is used in a building, its control becomes somewhat more complex than that of a single arrangement. For a simple system, such as hot water radiators, the flow temperature from the boilers would usually be controlled by the outside climate; as the outside temperature falls the flow temperature is increased. In addition, the flow temperature will be reduced to some fairly low value when the building is unoccupied; this may be done manually or automatically by clock control. Individual room thermostats may also be used to control each room separately but this is not usual. Where a mixed system is used, say floor heating plus radiators or convectors, the floor heating plus radiators or convectors, the floor heating which responds relatively slowly to changes in demand, would be controlled by the outside climate in such a way, that the surface temperature of the floor did not exceed 75 deg. F. and so that the actual temperature of the floor so that the actual temperature of the floor surface was such, that the temperature in the rooms was maintained at the desired value. The more rapidly responding radiators or convectors would be controlled by individual room thermostats or by a zoned control depending on the temperature of selected points throughout the building. If the building is only intermittently occupied, manual or automatic shut down of the heat to the radiators would also be used. (This note is published by permission of the note is published by permission of the Director of Building Research.)



The Clyde L. Lyon Elementary School, Glenview, Illinois.



(Clyde L. Lyon Elementary School.) (Photos: " Heating and Classroom interior. Ventilation " [USA] Dec. 1949.

This feature answers any question connected with building confidentially and free of charge. Questions Technical Editor, The to the Architects' Journal, 9, 11 and 13,

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A We are doubtful whether you will get a week propounced amelioration of the supplying the suppl

any very pronounced amelioration of the reflection without the use of curved glass. By sloping the glass inwards from top to by stoping the glass liwards from top to bottom the reflected scene will be changed from the opposite side of the street to some-thing much closer, such as the pavement in front of the shop. In order to get an important degree of improvement it will be necessary to set the base well back in a black recess and, of course, there will be an appreciable reduction of the show space area. We would imagine that the relative value of loss of show space and improvement in lighting conditions will have to be balanced one against the other. For any given angle of the glass it is possible to determine the zone from which the reflections will come by simple

geometry, remembering that the angles of incidence and reflection on either side of the perpendicular to the plane of the glass are

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This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

#### INDUSTRY THE

By Brian Grant

#### SYNTHETIC GLUES

Most of us have heard from time to ime of the developments made in synthetic resin glues in the war years, the most usual example being the glued ply-balsa-ply sandwich forming much of the structure of the Mosquito. There were, of course, many other less publicised developments, such as the bonding of the linings to the clutch plates of Cromwell tanks. Synthetic glues have now reached a stage where it is possible to glue or bond metals to wood or rubber or plastics, or to other metals, the resultant bond showing very great strength; tests to destruction generally producing failure in the material itself, irrespective of the glue line. synthetic resin glues in the war years, line.

This is not to suggest that the natural glues which we have known in the past are not still perfectly satisfactory in their own sphere, but with the newer glues it is posspilete, but with the newer gives it is possible to employ techniques not previously possible, such as the gluing of table legs direct to the top and to produce weather-proof plywood which will stand up to external terms are in the standard products and the standard products are such as the standard products ar

ternal use, if necessary without painting.

Synthetic resin adhesives are plast Synthetic resin adhesives are plastics, usually in liquid or powder form and are made in various types; the choice of an adhesive for any specific duty depending on several considerations: the nature of the materials to be bonded; whether close contact between the surfaces can be assured (if not, the adhesive must be gap-filling); conditions of climate; temperature, etc., under which the joint must eventually serve; scale and speed of output; workshop facilities; and permissibly cost

Synthetic resin adhesives, however, have certain advantages in common. They are all highly resistant to common solvents, especially to water and acids, and are vital com-ponents of glued joints which must serve in moist conditions or under water. Second only to moisture as a cause of delamination in glued joints are moulds, fungi, and micro-organisms which attack and destroy animal, vegetable, and casein glues. Synthetic resin adhesives are highly resistant to bacteriological attack of this kind. Finally, they are able to withstand high temperaand similar phenol-formaldehyde. tures, phenol-formaldehyde, and similar resins being resistant to boiling water, while a urea formaldehyde resin, with the appropriate hardener, will withstand water temperatures as high as 70° C. (150° F.). Messrs. Aero Research, although, of course, they are by no means the only firm interested in resins of this kind, have been producing them for many years and have

producing them for many years, and have recently issued an informative handbook on Adhesives for Industry which will be of considerable interest to architects. It covers resins for all types of wood joint. for the manufacture of plywood and veneering techniques, and also describes the various metal-bonding processes. Aero Research have developed the Redux bonding system for metals and other metals. system for metals and other non-porous materials, and also introduced to this coun-try the Swiss Araldite method for similar work. AJ readers may also like to be re-

minded that this firm publishes monthly technical notes, many of which are of imme-diate interest to the building industry. (Aero Research, Ltd., Duxford, bridge.)

### LATHING FOR PLASTERWORK

LATHING FOR PLASTERWORK

The Expanded Metal Company have just published a useful handbook on thin metal lathing. They manufacture two types, BB and Expamet, of the two BB is preferred for general plasterwork. Expamet lathing is the older material and is recommended for special plasterwork where a heavy weight of lathing is advisable. The Company also manufactures Ribmet which Company also manufactures Ribmet which is a combination of V-shaped steel ribs and BB lathing. It is used where the supports or bearers are too far apart for plain sheet lathing, and it is the only material of its kind in which the lathing is continuous across the ribs. All lathings comply with the requirements of B.S.1369:1947.

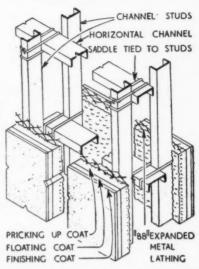
Unless otherwise specified, expanded metal lathing is supplied coated with black asphal-tum paint. This is sufficient protection under normal conditions, and to ensure that the lathing is completely coated the Company has installed an up-to-date painting plant in which the lathing is painted and stove dried by a continuous mechanical process. Expanded metal lathing can also be galvanized after manufacture; or it can be produced from galvanized blank sheet. In the latter case the edges of the strands are not coated.

The use of BB lathing is not confined to plasterwork. It is employed extensively for many other purposes, e.g., as a key for composition floor finishes; to prevent creep of asphalt linings on sloping roofs, in gutters, etc.; and as a background for insulating materials.

The handbook is well illustrated, and contains diagrams of various methods of using expanded metal as a base for plaster casings to steelwork, partitions and internal linings of all kinds and for external cladding. It finishes with several pages of data on the appropriate plaster mixes and types suitable

for different kinds of work.

The illustration shows a double partition which will give a sound reduction of 50-55 decibels. To be effective, however, the edges of the partition should be insulated from the surrounding walls, floor, and ceilings by means of felt, cork or other shock absorbing materials. Moreover, the effectiveness of



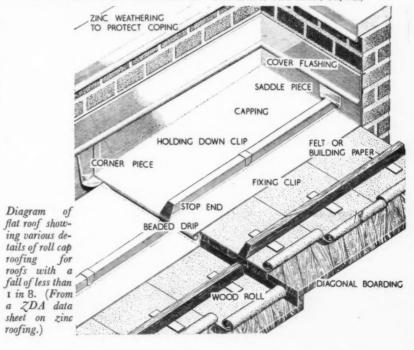
Double partition, using expanded metal lathing.

the double partition will be reduced to some extent if the floors and the flanking walls are continuous.

(The Expanded Metal Co. Ltd., Burwood House, Caxton Street, Westminster, London, S.W.1.)

#### ZINC IN BUILDING

The Zinc Development Association has just issued six data sheets on zinc roofing, gutters, rainwater pipes and dormer win-dows, which show in line drawings and photographs the general methods in use for constructing zinc roofs, with instructions for making the various types of welted and other joints. The main facts are presented in a clear form which should certainly be useful to architects who need information about essential details, but it should be noted that these sheets are not intended to replace or serve as a substitute for ZDA's standard publications, which are used mainly by plumbers and zinc workers. (Zinc Development Association, Ltd., Lincoln House, Turl Street, Oxford.)



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### INFORMATION CENTRE

#### REFERENCE BACK

3.8.50.—1st item LEGISLATION We regret that the classification number was omitted. This should read:

2.107 planning: general LEGISLATION

#### 9.13 design: general TROPICAL CONDITIONS

Building in the Tropics. Research into Housing in Tropical Countries, especially in the Commonwealth. G. A. Atkinson. (JRIBA, June 1950, pp. 313-320, illustrated.)

Valuable paper dealing with general approach to subject, with special emphasis on provision of comfort conditions in hot

This paper, arranged by the Architectural Science Board, and read by Mr. Atkinson is an excellent example of the value of an architectural approach being combined with scientific knowledge. Mr. Atkinson as Colonial Liaison Officer at the Building Research Station is an architect but is able to make use of the work of his scientific colleagues. Even to those who have nothing to do with tropical building the paper should be of interest both for its clear discussion of principles and as an example of how a problem can be tackled.

Technically the most interesting part of the paper is that which discusses the provision of comfort conditions in hot countries. difference between hot dry climates and hot humid conditions is very well explained and the structural implications pointed out include the relative importance of thermal capacity, heat reflection and air movement. Daylighting conditions in the tropics are also briefly discussed and the basic factors explained.

There is a brief discussion on materials and some information on what is being done about research by organizations in the Commonwealth.

#### 19.100 construction: details COMPOSITE CONCRETE AND GLASS

Composite Reinforced Concrete and Glass Construction. H. Wingrave Newell. (Concrete and Constr. Engineering, June, 1950, pp. 218-220.)

Glass lenses, square or round, inserted in a reinforced concrete grid, acting together. Illustrations and worked example.

The glass lenses are inserted at the time of casting the concrete, taking a share of the bending, as proved by tests. Shallow lenses are used in British practice, with the reinforced concrete ribs projecting below the underside of the glass, which is thus only taking compression. In continental practice the lenses and the ribs are of the same depth, the moulds are cheaper and

there is better bond between the com-ponents, but the slabs are heavier. Young's modulus for glass in compression is about modulus for glass in compression is about 10 million lb. per sq. in., that is, about one third that of steel and five times that of concrete, and the compressive stress in the lenses is usually very small compared with their compressive strength of more than 24,000 lb. per sq. in. The advantage of providing daylight through load-carrying slabs of composite construction is obvious. (See illustration entitled "Gare de Versailles, Paris," taken from the article on "Translucent Concrete" in "The Reinforced Concrete Review," Vol. II, No. 1, Jan., 1950.) Jan., 1950.)

#### 21.34 construction: miscellaneous MECHANICAL AIDS

Machines for the Modern Builder. Ministry of Works Advisory Leaflet. (HMSO 1950. 6d.)

Excellent description of simple machines suitable for medium sized firms. Costs of working. Changes in technique required.

The Ministry of Works has done valuable work in analysing the real costs of various building works and then, having found which items are most promising for improvement by the introduction of mechanical aids has either developed or encouraged the development of appropriate machines. Much of this development work is first done at the Thatched Barn Field Test Unit (now transferred to the Department of Scientific and Industrial Research).

This 16 page Bulletin describes excavators suitable for small foundation trenching, improved ways of moving concrete from mixer to laying position by mechanical wheel-barrow, small skip or lightweight concreting boom, and it also deals briefly with methods

of raising bricks and other materials.

Most of the plant illustrated and discussed has been mentioned before in the technical press but is still not nearly as well known as it should be and this publication is especially useful in giving cost analyses for various jobs of work done by hand and by machine.

Architects should have an interest in the subject for two reasons. First because in some case the costs of these and other mechanical aids bring with them a need to review design and technique. New methods will sometimes mean changes in design approach if their value is to be fully exploited. The other reason for architects to be interested is that in many cases by discussion and encouragement they may well be able to convert the backward or timid medium sized builder to the use of such machines to the general good of all concerned in obtaining a more efficient and less costly job.

### 23.131 heating and ventilation

### AMERICAN TEXTBOOK ON HEATING, VENTILATING AND AIR CON-DITIONING

Heating, Ventilating and Air-Conditioning Fundamentals. William H. Severns and Julian R. Fellows. (New York: Messrs. John Wiley & Sons, Inc. 1949. \$6.50. London: Messrs. Chapman & Hall, Ltd. (2nd Edition) 1949. 52s.).

New American textbook covering the theory and practice of heating, ventilation and air-conditioning.

This new book is remarkable for its completeness. It covers all aspects of modern American practice: much of the information given is equally applicable to installations in this Country.

A book of this complexity is rather for the engineer than for the architect; but among such a store of information there is much which can help the latter, and it can be recommended for a place on the shelves of the larger architectural libraries.

### TECHNICAL SECTION

26.73 services equipment : miscellaneous ATMOSPHERIC POLLUTION

Atmospheric Pollution. BCURA Quarterly Gazette, No. 9, 1950. (The British Coal Gazette, No. 9, 1950. Utilization Research Association.)

Article on atmospheric pollution and experimental work towards its reduction.

The amount of insoluble matter deposited per year on one square mile in the Trossachs equals six tons; in London, it averages 240 tons; and in some other industrial areas, up to 460 tons are recorded. Over short periods, the maximum is many times the Hence a movement on the part of average. local authorities to enforce new standards of air cleanliness.

Measurement and analysis of deposits is being carried out by the DSIR but it is a difficult subject. More than half the pollution is due to the combustible matter emitted from domestic sources and the reduction of this is the subject of research by BCURA. Power stations have their own particular problem in that, though good combustion produces little or no emission of combustible matter, high gas velocities lead to greater ash emission. Pre-war, this country lead the way in the removal from flue-gas streams of solid particles, but some of the plant requires replacement.

The article discusses the advantages and disadvantages of different types of grit arres-tors, including cyclones, electrostatic pre-cipitators, and gas washing (which has the advantage of removing sulphur dioxide) and points out that raising chimneys cannot be considered a satisfactory solution since it only has the effect of distributing the grit particles over a wide area.

A particular problem exists in connection with pulverized-fuel ash. Some of the ash is in the form of bubbles (cenospheres) which are much lighter than solid ash of equivalent size, and are more readily entrained with the flue gases. Complaints about grit emission from such plants have been frequent, but it has been proved at Leicester that the problem can be largely solved. A large quantity of dry dust arises from this solution but some has been used for artificial stone production, and in Germany similar dust has been used as a

To remove 60 per cent. of particles is easy; 90 per cent. may be practicable; 99 per cent. would be difficult and expensive; but against this cost must be balanced the value of the damage caused by atmospheric pollution and its effect on the health of the urban



Gare de Versailles, Paris. See 19.100.

### Buildings Illustrated

Housing at Llanrwst, Denbigh, North Wales. (Page 158.) Architect: S. Colwyn Foulkes, MARCH., F.R.I.B.A. Quantity Surveyor: N. F. Shanks. General Contractor: F. Tyldesley. Sub-contractors: Bricks, Penmaenmawr & Welsh Granite Co.; excavation, M. A. Boswell; grates, Bratt Colbran Ltd.; boilers, Burco Ltd.; sanitary fittings, James Payne & Co.; door furniture, Laidlaw & Thomson Ltd.; window furniture, W. G. Kaleyards Ltd.

Rural houses in Essex. (Page 159.) Architect: Stanley Bragg, A.R.I.B.A. General Contractor: W. Dobie. Sub-contractors: Tiles, Roberts, Adlard & Co. Ltd.; sanitary fittings, E. C. Hunt; casements, Crittall Manufacturing Co. Ltd.; joinery, John Sadd & Sons Ltd.

Shop for Radio Rentals Ltd., 231, Regent Street, London, W.1. (Page 160.) Designer: Laszlo Hoenig. General contractors: Laszlo Hoenig Constructions Ltd. Subcontractors: Glass bricks and mirrors, James Clark and Eaton Ltd.; heating, Hurseal Radiators, Easy chairs designed by Dennis Lennon, A.R.I.B.A.

Shop for Susan Handbags Ltd., at 68, Bond Street, London, W.1. (Page 161.) Architect: Werner Heumann, N.R.D. General contractor, electric installation and light fittings: Hickman Ltd. Sub-contractors: Metal work and furniture fittings, Brent Metal Works Ltd.; furniture and upholstery, Oscar Woollens Ltd.; carpet, Liberty's.

Two houses at Blackford Hill, Claverdon, Henley-in-Arden, Warwickshire. (Pages 162-163.) Architect: Erno Goldfinger, D.P.L.O., L.R.I.B.A. General contractor: W. Sapcote & Sons. Sub-contractors: Foundations, damp-courses, reinforced concrete, partitions, woodblock flooring, plumbing, W. Sapcote & Sons; asphalt, garage roof, Val-de-Travers; bricks, Burbury Brick Co.;

tiles, roofing felt, Wormells; glass, Pearce & Cultor; boilers, Ideal; electric wiring, electric light fixtures, bells, Baxter & Impey; casements, window furniture, Hoskins & Sewell Ltd.

Factory at Inchicore, Dublin, Ireland. (Pages 165-170.) Architect: Michael Scott, F.R.I.A.I. Consulting Engineers: Ove N. Arup & Partners. Quantity Surveyor: Francis D. Shortall. General Contractor: G. & T. Crampton Ltd. Sub-contractors: Asphalt, South of Ireland Asphalt Co. Ltd.; bricks, brick chimney constructed by J. Ramey & Co.; artificial stone, "Cretesolite" partition blocks, Cretestone Ltd.; structural steel, Irvine Chapman & Co. Ltd., Universal Steel Door & Engineering Co. Ltd., erected by Dublin Erection Co. Ltd.; special corrugated asbestos roofings, Asbestos Cement Ltd.; roof insulation, aluminium foil backed plasterboard, Gypsum Industries Ltd.; glass, Pilkington Bros. Ltd.; patent glazing, window furniture, Williams & Williams Ltd., Reliance Works; linoleum flooring, Pim Brothers Ltd.; central heating, ventilation (extract from drying room), tubular clothes driers, hot and cold water services, McCann Ltd.; gas supply, Alliance & Dublin Consumers Gas Company; electric wiring, Coras Iompair Eireann; counterbalanced door, Eclair Doors Ltd.; cranes, Vaughan Crane Co. Ltd.; floor hardening, Evode Chemicals Ltd.; window panels, Carthorn Ltd.; sanitary fitting suppliers, Davis King & Co.; fencing, Federated Engineers (Ireland) Ltd.; rainwater pipes, Vitreflex.

### Announcements

Messrs, Shires & Co. (London), Ltd., are now in full production at their new works, Greenbottom Works, Guiseley, Yorks, to which all future communications should be addressed. (Tel.: Guiseley 1041-5.)

Messrs, Lubetkin & Skinner, formerly of 115, Mount Street, W.1, have taken Mr. D. C. Bailey into partnership and will in future practise as Messrs, Skinner, Bailey and Lubetkin at 188, Piccadilly, W.1. (Tel.: Grosvenor 6795/6.)

The Board of the Institute of Physics announces that the Institute's Certificate in Laboratory Arts will not be awarded after 1951, in view of the establishment of the Intermediate Certificate for Laboratory Technicians by the City and Guilds of London Institute, which it welcomes.

Baron Silkin of Dulwich, formerly Lewis Silkin, M.P., Minister of Town and Country Planning, has become a member of the LMBA. He recently accepted the chairmanship of Messrs. Myton Ltd., which joined the LMBA in 1947 when it was affiliated with the National Federation of Registered House Builders.

### Corrections

SCHE F.F. R

In our list of sub-contractors for a Hostel in Bryanston Square on page 100 of our issue for July 27, we stated that Twisteel Reinforcement Ltd. were contractors for the structural steelwork. In fact they designed the reinforced concrete barrel vault and supplied the steel reinforcement for it.

In a description of two houses at Hertford, published on page 116 of our issue for August 3, we omitted to state that the roofs were Broderick insulated copper roofing (1 in. insulating board covered with 31 g. copper) supported on prefabricated trussed rafter timber roof framing.

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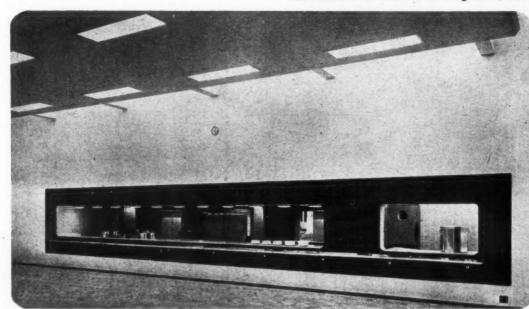
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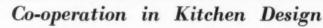
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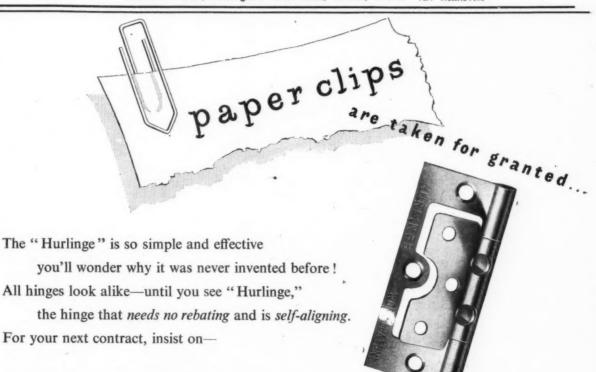
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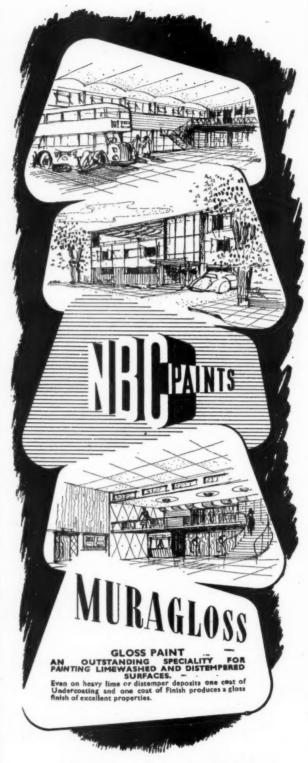
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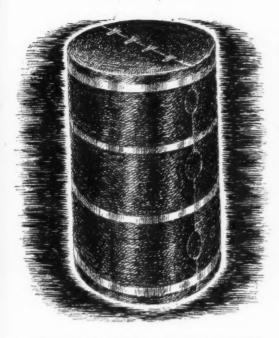
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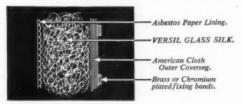


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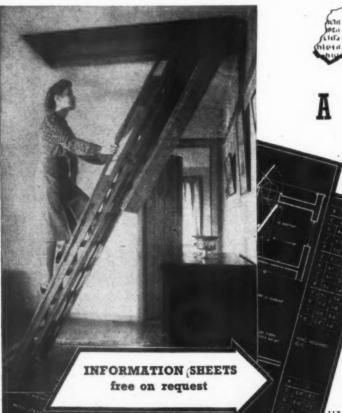
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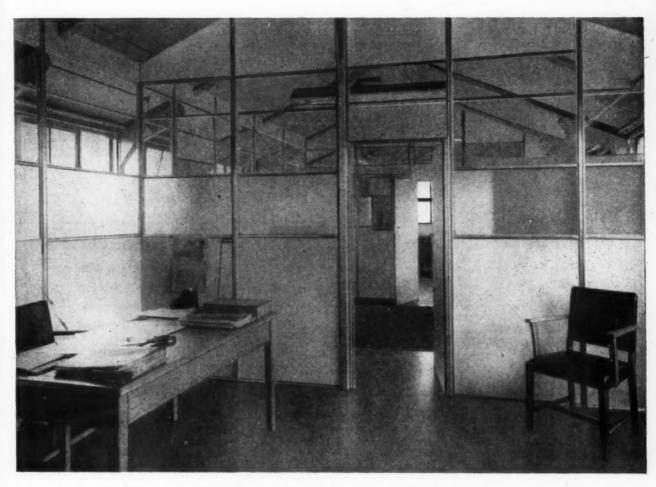
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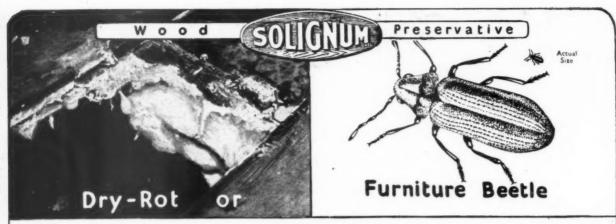
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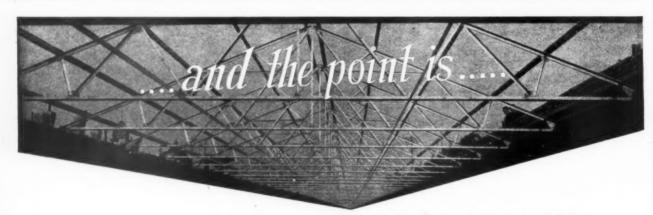


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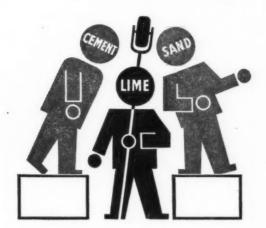
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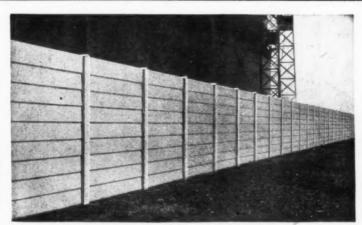
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LICENSEES in England and Northern ireland who will be pleased to deal with local enquiries:—

THE BRITISH "FRAM" CON° STRUCTION CO. (1911), LTD. Fram Works, Whitchurch, Glam.

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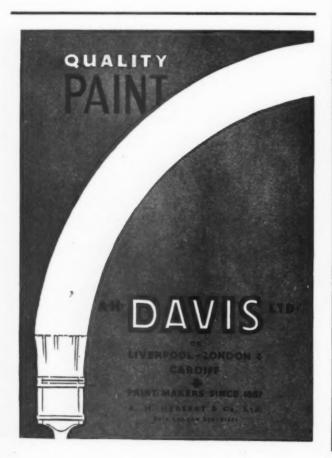
WETTERN BROTHERS (MAN-CHESTER) LTD., 559a, Wilbraham Road, Manchester, 21.

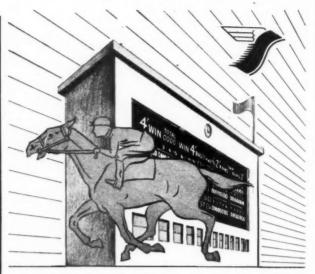
WETTERN BROTHERS LTD. .64, Potternewton Crescent, Leeds, 8.

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Setright Registers Ltd. would appreciate the opportunity of forwarding details of their Totalisator equipment to persons engaged in the erecting and reconstructing of Horse and Greyhound Racecourses.



Claremont Works, Claremont Road, Walthamstow, London, E.17
Telephone: Larkswood 2189 Telegrams: Sefaregist, Walt, London



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We are Insulation Contractors. In addition to insulating boilers and heating systems to recognised specifications, we also specialise in dealing with the problems of the rubber industry.

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BIRMINGHAM AND BLACKBURN CONSTRUCTION CO. LTD. Armoury Close, Bordesley Green, Birmingham 9.

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Durtnells of Brasted, Kent, are Builders who, for well over 300 years, have been co-operating with architects and their clients to ensure the competent erection of homes fit for Englishmen to live in.

Unspoiled by the evils of the "machine age," the workmanship put into a Durtnell-built home is remarkable for its thoroughness. And yet it is interesting to discover that this pride in craftsmanship finds little reflection in the ultimate bill for good work well done.

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If you intend to Specify Sash Windows, avoid future Cord troubles by ordering . . .

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ENDLESS CORD STRONG · DURABLE Ask for details and prices Also ideal for Colour Poles, Aerial Poles, Inside Clothes Airer Rails, etc.

Made in all lengths
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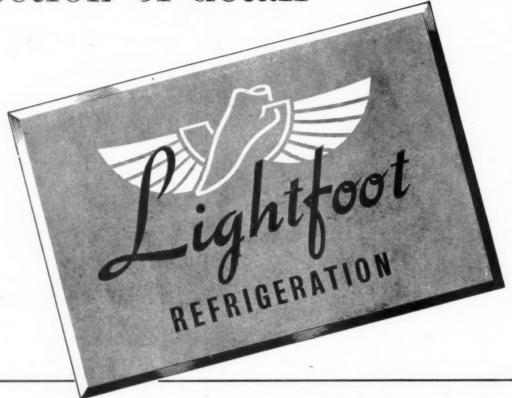


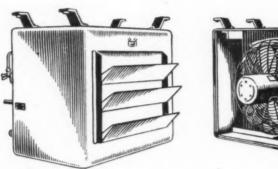
Two gallon Foam non-spill extinguisher for petrol and oil fires. Two gailon capacity Soda-Acid, conical extinguisher for general purpose use. Two gallon water (Gas expelled) extinguisher for general use.

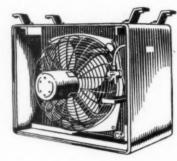
**Fire Armour** 

9 GEORGE STREET, BAKER STREET, LONDON W.I.
Telephone No.: WEL 3313
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### Lightfoot Refrigerated Air-Conditioning Coolers (for fixing to ceilings)

These units are suitable for dining rooms, lounges, bars (and beer and wine cellars), ball-rooms, canteens, messes, hospital wards, operating theatres, offices, rooms in official residences, law courts, and lecture halls. They are also suitable for private heuses. They are silent, have slow-running fans, and maintain temperatures down to 40°F. (4.4°C.). Electric heaters are included for some climates.



Used in hospital wards in all climates.

THE LIGHTFOOT REFRIGERATION COMPANY LTD., Abbeydale Road, Wembley, Middlesex

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ap Th an Sp Co ho me An CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Adv. Manager, "The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's

paper.
Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address care of "The given above.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

Public and Official Announcements 25s. per inch; each additional line. 2s. The Incorporate Association of Argentyfeets and Surveyors (including assistants) requiring posts, and invites applications from public architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: Employment Register, Wern Park, Whytelays. Tel.: Uplands 0935. 991

NORTH THAMES GAS BOARD.

Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary 2650 per annum.

Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9°57.

LONDON COUNTY COUNCIL.

Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £590 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Bigagement will be subject to the Local Government Superannuation Acts, and successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division.

Forms of application may be obtai

required and quote reference A.A.1). Canvassing disqualifies. (816)

APPOINTMENT OF:

(a) ARCHITECTURAL ASSISTANT.

(b) JUNIOR ENGINEERING ASSISTANT.

Applications are invited for these permanent appointments on the staff of the Corporation. Salary for appointment (a) in accordance with Grade A.P.T., III of the National Scheme (£450—£15—£489), and for appointment (b) in accordance with Grade A.P.T., III of the National Scheme (£420—£15—£465). Appropriate London Weighting is payable in both cases.

Candidates for appointment (a) should have passed the Intermediate Examination of the R.I.B.A. and have had previous Local Government Experience.

Candidates for appointment (b) should have had training in municipal engineering and should be taking the examinations for a recognised engineering qualification.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination, of forms to be obtained from the

successful candidates will be required to pass a medical examination.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him not later than Thursday, 24th August, 1950.

J. S. SYRETT, Town Clerk. Town Clerk's Offices, South Road, Southall, Middlesex. July, 1950.

Southall, Middlesex.

July, 1950.

RHYMNEY URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECT.

Applications are invited for the permanent appointment of an Architect to the above Council. The salary will be Grade V (£520—£570 per annum) of the A.P.T. scales.

Applicants will be expected to prepare plans, specifications, bills of quantities, etc., for the Council's housing schemes, and supervise the housing contracts. They should preferably be members of the Royal Institute of British Architects.

The appointment is subject to the passing of a medical examination and to the provisions of the Local Government Superannuation Act.

Applications, stating age, qualifications, experience, etc., with the names of three persons to whom reference may be made, should reach the undersigned not later than Monday, the 4th day of September, 1960.

(Signed) R. T. LEWIS,

Clerk and Chief Financial Officer.

Council Offices,

Rhymney, Mon.

Council Offices, Rhymney, Mon. 24th July, 1950.

CARSHALTON URBAN DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of
Architectural Assistant in the Engineer and Sur-

Applications are invited for the appointment of Architectural Assistant in the Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T. VI of the National Scale (£595—£560) plus London "Weighting."
Applicants must hold the Final Examination Certificate of the R.I.B.A. and be Registered Architects. They must be competent in design and construction and have had sound experience in the architectural work of a Local Authority. The appointment will be subject to (1) the provisions of the National Scheme of Conditions of Service, (2) the passing of a medical examination for superannuation purposes, and (3) one month's notice on either side.

The Council cannot provide the successful applicant with housing accommodation.
Applications on forms obtainable from the undersigned must be returned, together with the names of three referees, not later than 28th August, 1950.
Canvassing in any form will be a dis-

Canvassing in any form will be a disqualification.

J. W. WRIGHT, Clerk of the Council.

pualification.

J. W. WRIGHT.

Clerk of the Council.

District Council Offices,
The Grove, Carshalton.

CHESHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

NORTH CHESHIRE AREA PLANNING

APPOINTMENT OF PLANNING STAFF.

Applications are invited for the following appointments on the permanent establishment of the North Cheshire Area Planning Department which is situated at 47/51, Station Buildings.

Altrincham.

The posts are subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to act under the direction of the Area Planning Officer in the preparation of a Development Plan for the County and the Control of Development under the Town and Country Planning Act, 1947.

(a) PLANNING ASSISTANT—Salary A.P.T.

III—IV (2450—£525).

Applicants for this position should have obtained the intermediate examination (or equivalent) of one of the recognised professional institutes, and preference will be given to candidates who have had training in architecture and some experience in town planning.

(b) JUNIOR PLANNING ASSISTANT—Salary A.P.T. I.—II (2390—2465).

Applicants for this position should have had training in a planning, architectural, surveying or engineering office.

Forms of application, together with details of the duties and conditions attaching to the appointments may be obtained from me on receipt of a stamped and addressed foolscap envelope.

The last date for the receipt of completed applications is Saturday, the 26th August, 1950.

KENNETH O. MAZE.

require.
The last date for the receipt of completed applications is Saturday the 26th August, 1950.
KENNETH O. MALE,
County Planning Officer.

Bridgegate House, Lower Bridge Street, Chester.

BOROUGH OF WEDNESBURY.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the appointment of
an Architectural Assistant in the Borough Engineer and Surveyor's Department at a salary in
accordance with A.P.T., Grade VI (£595 to £660

an Arthuran and Surveyor's Department of the accordance with A.P.T., Grade VI (£595 to £500 per annum).

Applicants must be Associate Members of the Royal Institute of British Architects and be experienced in the design, erection and maintenance of houses, flats and public buildings.

The appointment is subject to the provisions of the Local Government Superannuation Act. 1937, and the successful candidate will be required to pass a medical examination.

Applications stating age, qualifications and experience, and enclosing copies of two recent testimonials, are to be received by the Borough Engineer and Surveyor, Mr. C. G. Morrish, not later than 31st August, 1950.

G. F. THOMPSON,

Town Hall, Wednesbury, Staffs. 5th August, 1950.

Wednesbury, Staffs.

5th August, 1950.

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANT'S and LEADING ARCHITECTURAL ASSISTANT'S with recognised training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £500-£625 per annum. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancles.

Apply in writing, stating age nationality, full details of experience, and locality preferred, to Chief Architect. W.G.10/BC. Ministry of Works, Abell House, London, S.W.I., quoting reference W.G. 10/BC.

KENT COUNTY COUNCIL.

RUILDINGS DEPARTMENT.

Applications are invited for an appointment in the Buildings Department of an ARCHITECTURAL ASSISTANT at a salary within the range A.P.T., Grade II—III (2420—2495).

Candidates must have passed the Intermediate Examination of the Royal Institute of British Architects and have had some experience in the preparation of working drawings and development of detail drawings.

The commencing grade and salary will be dependent upon the experience of the successful candidate.

The post is superannuable and the successful candidate will be required to pass a medical examination.

examination.

Applications, on forms obtainable from the County Architect. Springfield, Maidstone, should be delivered to him within two weeks of the appearance of this advertisement.

W. L. PLATTS,
County Hall Clerk of the County Council.

County Hall, Maidstone. 31st July, 1950.

WREX HAM RURAL DISTRICT COUNCIL.
APPOINTMENT OF (a) ARCHITECTURAL
ASSISTANT; (b) QUANTITY SURVEYING
ASSISTANT; (b) QUANTITY SURVEYING
ASSISTANT, On the following
appointments in the Engineer and Surveyor's
Department of the Council, namely:—
(a) Architectural Assistant at a salary in
accordance with Grade VI of the A.P.T., Division
(£959—£560). Applicants must be Associates of
the Royal Institute of British Architects, or
Registered Architects, and must be competent to
undertake housing and general architectural
work.

undertake housing and general architectural work.

(b) Quantity Surveying Assistant at a salary in accordance with Grade VI of the A.P.T., Division (£955—£660). Applicants must be Associates of the Royal Institute of Chartered Surveyors (Quantities Division) and have had experience in the preparation of Bills of Quantities for housing and road works and the measuring of works in progress and on completion.

The appointments will be determined by one month's notice in writing on either side and will be subject to the provisions of the Local Government Act, 1937, and the National Joint Council's Scheme of Conditions of Service. The successful applicants will be required to pass a medical examination.

Applications stating age, qualifications, ex-

examination.

Applications stating age, qualifications, experience, present appointment and salary, together with copies of two recent testimonials, must be delivered to the undersigned not later than Monday, 28th August, 1950, in envelopes suitably endorsed.

Canvassing, either directly or indirectly, will be a disqualification, and relationship to any Member or Senior Officer of the Council must be disclosed.

TREVOR L. WILLIAMS, Clerk and Solicitor.

Imperial Buildings, Regent Street, Wrexham. 1st August, 1950.

Regent Street, Wrexnam.

1st August, 1950.

AYCLIFFE DEVELOPMENT CORPORATION.
(Established under the New Towns Act. 1946).

APPOINTMENT OF ASSISTANT

THE ABOVE CORPORATION IN ASSISTANT

ARCHITECTS.

The above Corporation invite applications from Architects for appointment on the staff of their Chief Architect, Mr. G. A. Goldstraw, B.A., A.R.I.B.A., at salaries in accordance with Grades A.P.T. v and A.P.T. vII of the National Joint Council for Local Authorities' Administrative, Professional and Technical Services, i.e., £520 rising to £570, and £635 rising to £710 respectively.

Where necessary, housing accommodation will be available.
Applications, stating qualifications, previous experience, present appointment, salary, age, and the Grade applied for, must be forwarded to the undersigned not later than 26th August, 1950.

The applicant should include the names and addresses of three persons to whom personal reference can be made if necessary.

(Signed) A. W. THOMAS.

Newton Aycliffe,
Co. Durham.

Newton Aycliffe, Co. Durham. 2nd August, 1950.

CO. Durham.
2nd August, 1950.

CITY OF NOTTINGHAM.

HOUSING ARCHITECT'S DEPARTMENT.
SENIOR ASSISTANT ARCHITECT.
Applications are invited from Registered Architects with good experience in the design and construction of large housing estates, for the appointment of a Senior Assistant Architect in A.P.T., Grade VI (£595-£660).

The appointment is in accordance with the National Joint Council's Scheme of Conditions of Service, and subject to the Local Government Superannation Act, 1937.

The successful candidate will be required to pass a medical examination.
Applications, giving details of age, training, qualifications, experience and present appointment, together with the names and addresses of two persons to whom reference can be made, should be forwarded to C. A. Pilkington, LR.I.B.A. City Housing Architect The Guildhall, Nottingham, not later than Monday, the 28th August, 1950.

J. E. RICHARDS,

J. E. RICHARDS, Town Clerk.

The Guildhall, Nottingham.

OUNDLE AND THRAPSTON RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECT.

Applications are invited for the above appointment at a salary in accordance with Grade IX of the A.P. & T. Division of the National Scale of Salaries (i.e., £750×£50-£900 per annum).

The appointment is a new one, and the successful applicant will be responsible for the organisation of the newly created Architect's Department. Subject to satisfactory service, prospects of promotion after reaching the maximum in Grade IX are good.

tion of the newly created Architect's Department. Subject to satisfactory service, prospects of promotion after reaching the maximum in Grade IX are good.

Candidates should be Associates of the R.I.B.A. (or equivalent examination), with experience in house design, preparation of working drawings, details, specifications, quantities, supervision of construction and the settlement of Contractors' Final Accounts. Preference will be given to applicants holding a Town Planning qualification. The successful candidate will be required to provide and maintain a car, for which an allowance will be made in accordance with the Scheme of the National Joint Council for a 10-h.p. car.

The appointment will be terminable by three months' notice on either side, and is subject to the provision of the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service, and the successful applicant will be required to pass a medical examination. Applications, stating age, present and previous appointments, with dates, qualifications and experience, accompanied by copies of three recent testimonials, should be sent to the undersigned in an envelope endorsed "Architect," not later than Thursday, the Sist August, 1950.

Canvassing, directly or indirectly, will disqualify the candidate, and any relationship to a Member or Senior Officer of the Council must be stated in the application.

H. H. HASSALL,

Clerk of the Council.

Council Offices, Midland Road,

Thrapston, Kettering.

SALOP COUNTY COUNCIL.

SALOP COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following
ppointments to Established Posts in the Depart-

3. JUNIOR ASSISTANT AND ASSISTANT GRADE THE ADDRESS OF THE ADDRESS

Shrewsbury, August, 1960.

COUNTY COUNCIL OF THE COUNTY OF STIRLING.
Applications are invited for the following

Applications are invited for the following posts:—

(a) SENIOR PLANNING ASSISTANT. Salary scale £685, rising by annual increments to £760. Applicants should possess one or other of the following qualifications:—A.R.I.B.A., A.R.I.C.S., A.M.I.C.B., A.M.I.Mun.E., or A.M.T.P.I., and should have experience in planning work. The successful candidate will be required to assist the Council's Planning Consultant with the preparation of the statutory planning proposals for the County, and in dealing with development applications under the Town and Country Planning (Scotland) Act, 1947.

(Scotland) Act, 1947.

(b) FIRST ASSISTANT. Salary scale £550, rising by annual increments to £610. Applicants should prefecably hold one of the qualifications referred to above and should have had experience in planning work and SSISTANTS. (TWO) Salary.

rising by the state of the stat

County Offices, Viewforth, Stirling. 3rd August, 1950.

COUNTY BOROUGH OF WEST HAM.
BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.
Applications are invited for the following posts on the permanent establishment of the Department of the Borough Architect and Planning Officer in connection with the Reconstruction Programme of the Borough.
The Department is undergoing considerable expansion with a view to the early completion of the Development Plan, the layout of new neighbourhoods, and large scale works comprising Housing, Education, and Public Buildings. The work to be done therefore covers the widest possible range in this badly-blitzed area and calls for imagination and enthusiasm.

TWO SENIOR ASSISTANT ARCHITECTS.
A.P.T., VIII (£685×25-£760).
Applicants should be A.R.I.B.A., having considerable experience in large Housing and Education works and Public Buildings, and being able to take complete charge of Contracts.
FOUR SENIOR ASSISTANT ARCHITECTS.
A.P.T., VII (£685×25-£760).
ONE ASSISTANT ARCHITECT. A.P.T., V/VA (£520×£15×£15×£20-£570) (£550×£20-£610).
Applicants of these posts should be A.R.I.B.A. or Registered Architects, and have had experience in large Housing and Education works and Abould be able to supervise contracts.
FOUR ARCHITECTURAL ASSISTANTS.
A.P.T., I/III (£390×£15-£435) (£420×£15-£465) (£450×£15-£495).
Applicants should have had at least 3 years practical experience in an architect's office, preferably on Housing, Education, or Public Buildings.

SENIOR ASSISTANT, PLANNING.

SENIOR ASSISTANT, PLANNING. A.P.T.,
VIII (£685×£25—£760).

Applicants should be A.R.I.B.A. and A.M.T.P.I.,
and should be experienced in work in a Reconstruction Area, the preparation of a Development Plan, and detailed layouts for Areas of Comprehensive Redevelopment.

SENIOR ASSISTANT, PLANNING. A.P.T.,
VII (£65×£25—£710).

Applicants should be A.M.T.P.I., and preference will be given to those possessing a further qualification. Knowledge of development control and the administration of the Act and Orders is essential. Experience in negotiations with developers, industrialists, etc., will be an advantage.

essential. Experience in negotiations with developers, industrialists, etc., will be an advantage. ASSISTANT, PLANNING. A.P.T., VI (£595×£20×£20×£25-£660). Applicants should be A.M.T.P.I., and preference would be given to those possessing an additional qualification. Should be experienced in work in a Reconstruction Area and assisting on Development Plasis and detailed layouts for areas of comprehensive redevelopment. A.P.T., V/VA. (£520×£15×£15×£20-£570) (£550×£20-£610). Applicants should possess a recognised planning or architectural qualification, and have had office experience, preferably on comprehensive redevelopment.

TWO PLANNING-ASSISTANTS (a) and (b). A.P.T., I/II (£390×£15-£455) (£420×£15-£465) (£450×£15-£465). Applicants for post (a) must have had at least 3 years' experience in the control of development and the general routine of a Planning Department.

ment and the general routine of a Planning Department.

Applicants for post (b) must have had at least 3 years' experience of detailed work in the preparation of layouts and Development Plans.

ADMINISTRATION:
SENIOR ADMINISTRATIVE ASSISTANT.
A.P.T. III (£450×£15-£495).

Applicants should have had considerable experience in a Local Government Architect's office, with knowledge of Committee work, contract procedure. Housing and Education returns, etc.

London allowance in addition to salary scales, viz.

bondon anowance in addition to salary scales, biz.:

16-20 years, £10 p.a.
21-25 years, £20 p.a.
26 years and over, £30 p.a.
Applications are also invited for the following Temporary appointment:—
CLERK OF WORKS. £10 per week, inclusive. Applicants should have had considerable experience in large contracts, and preferably on the erection of flats.
The office is situated within 20 mins on the tube from Central London.
Application forms (returnable by Saturday, 9th September), may be obtained from the Borough Architect and Planning Officer, Thomas E. North, F.R.I.B.A., 70, West Ham Lane, Stratford, £15.

COUNTY COUNCIL OF NORTHUMBERLAND.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the nost of ASSISTANT ARCHITECT, A.P.T., Grade VIII (consolidated salary £685 per annum, rising by annual increments of £25 to £760 per annum), on the permanent staff of the Department.
Applicants should have had considerable experience of carrying out major building projects, and should preferably be Members of the R.I.B.A.
The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act. 1937. The successful candidate will be required to pass a medical examination.
Applications, stating age, qualifications and previous experience, accompanied by recent testimonials, should be forwarded to the County Architect, County Hall, Newcastle-upon-Tyne, rot later than 26th August, 1950.

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AYR COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments in the County Planning Department, County Buildings, Ayr.—

(a) DEPUTY COUNTY PLANNING OFFICER. Salary scale £750×£50 annually to £900 per annum. Applicants must possess one and preferably two of the following qualifications:—

A.M.I.P.I. They must have a wide practical experience in the preparation of planning schemes for populous and rural areas and have a thorough knowledge of the administration of the various Acts and Orders relating to Town and Country Planning. The duties will include responsibility for the preparation of development plans for a defined area of the County.

(b) ONE DISTRICT PLANNING OFFICER. Salary scale £655-£760 per annum (A.P.T., Grades VII and VIII). Applicants must possess one or more of the qualifications specified for appointment (a) and have good practical experience in planning work and in the operation of the responsible for the collection of data and the preparation of development plans for a fefined area of the County.

(c) ONE SENIOR PLANNING ASSISTANT. Salary scale £50-£710 per annum (A.P.T., Grades V(a) and VII). Applicants must possess one of the qualifications specified for appointment (a) and should be experienced in the preparation of development plans for a fefined area of the County.

(d) ONE SENIOR PLANNING ASSISTANT. Salary scale £50-£710 per annum (A.P.T., Grades V(a) and VII). Applicants must possess one of the qualifications specified for appointment (a) and should be experienced in the preparation of development plans or draft planning schemes and in the layout of neighbourhood units, housing schemes, etc.

(d) TWO PLANNING ASSISTANTS. Salary scale £50-£495 per annum (A.P.T., Grades III).

in the layout of neighbourhood units, housing schemes, etc.
(d) TWO PLANNING ASSISTANTS. Salary scale £450-£495 per annum (A.P.T., Grade III). Applicants must have had a fairly extensive experience in town and country planning work, and preference will be given to those who have passed either the Final or Intermediate Examinations of one of the Professional Institutions specified in (a) above.

either the Final or Intermediate Examinations of one of the Professional Institutions specified in (a) above.

(e) TWO PLANNING ASSISTANTS. Salary scale £390-£435 per annum (A.P.T., Grade I). Applicants must have passed the Intermediate Examination of one of the Professional Institutions above mentioned, and preference will be given to those with previous planning experience. They should also be good draughtsmen and be experienced in surveying and levelling.

(f) ONE TECHNICAL ASSISTANT (aged 20 or over). Salary scale £190-£335 per annum (General Division), with placing within the scale according to age. Applicants must possess the Senior Leaving Certificate, which should include Highers in English, Mathematics and Science and one other Higher or Lower. The person appointed will be expected to study with a view to obtaining the Intermediate Examination of the Town Planning Institute. Preference will be given to those with some previous experience as draughtsmen.

All the above posts are on the permanent staff of the Council and will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937.

Forms of application for each appointment may be obtained from the County Clerk, County Buildings, Ayr, with whom applications must be lodged not later than 14 days from the date of publication of this advertisement. Intending applicants should clearly endorse their request for forms with a description of the post in which they are interested. Canvassing disqualifies. 613

BIRMINGHAM REGIONAL HOSPITAL

Applications are invited for the following applications are invited for the following

Applications are invited for the following ppointments on the staff of the Architect to the

appointments on the staff of the Architect to the Board:—

(a) ASSISTANT ARCHITECTS (TWO). Salary scale £50 to £610 per annum. Applicants must have passed Final Examination of the Royal Institute of British Architects or possess a recognised diploma in architecture.

(b) ASSISTANT QUANTITY SURVEYOR. Salary scale £550 to £610 per annum. Applicants should hold recognised qualification. The appointments will be subject to the National Health Service (Superannuation) Regulations, 1950, and will be terminable by one month's notice in writing on either side. Applications, stating qualifications and experience, with the names of three referees, should reach the Secretary, 10, Augustus Road, Birmingham, 15, by 26th August, 1950.

B.B.C. invites applications from Registered Architects for several Architectural posts in Building Department, London. TWO ASSISTANTS, I (Architectural): Applicants must be experienced in building surveys, general planning and preparation of detail drawings for office type buildings. Salary in grade with annual increments of £40 and maximum of £390 per annum. ONE ASSISTANTS, III (Architectural): Applicants must be up to Final R.I.B.A. standard and have had several years' office experience. Salary in grade with annual increments of £30 and maximum of £600 per annum. THREE ASSISTANTS, IV (Architectural): Applicants should have sound knowledge of building construction and at least three years' experience in an office. Preference given to applicants trained in an architectural school. Salary in grade with annual increments of £25 and maximum of £500. The posts are permanent and for admission to the established staff (contributory pension scheme) after a qualifying period of two years. Applications, stating age, qualifications and experience, and for which post application is being made, to reach Engineering Establishment Officer, Broadcasting House, London, W.I., within seven days.

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BOROUGH OF MALDEN AND COOMBE.
BOROUGH ENGINEER'S DEPARTMENT.
APPOINTMENT OF SENIOR TOWN
PLANNING ASSISTANT, GRADE A.P.T., V.
Applications are invited for the above-mentioned permanent appointment at a salary in accordance with Grade V of the Administrative, Professional and Technical Division of the National Scales for Local Government Officers, namely, £520×£15/£20-£570 per annum. plus London weighting. The appointment will be subject to the National Scheme of Conditions of Service, terminable by one month's notice on either side, and subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.
Candidates should have had good general experience in town planning and the preparation of surveys and control of development under the Town and Country Planning Act, 1947. Preference will be given to applicants who have passed the Final Examination of the Town Planning Institute.

Applications giving details of age, experience

will be given to appear the property of the Town Planning Institute.

Applications, giving details of age, experience, qualifications, present and past appointments, and enclosing copies of two recent testimonials, should be addressed to reach the undersigned not later than 25rd August, 1950.

Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in their applications whether to their knowledge they are related to any member or senior official of the Council.

HAROLD E. BARRETT,

Town Clerk.

Municipal Offices, New Malden, Surrey.

Municipal Offices,
New Malden, Surrey.

HUYTON-WITH-ROBY URBAN DISTRICT
COUNCIL.

SENIOR ARCHITECTURAL ASSISTANT.
SENIOR ENGINEERING ASSISTANT.
JUNIOR ENGINEERING ASSISTANT.
Applications are invited for the following appointments:

(a) SENIOR ARCHITECTURAL ASSISTANT.
Salary in accordance with Grade A.P.T., V(a) (2550×220-260) per annum).
Applicants must be Registered Architects, and should have experience in a Municipal engineer's office, particularly in respect of housing design, construction, and the control of contractors. Housing accommodation will be made available to the successful applicant if required.

(b) SENIOR ENGINEERING ASSISTANT.
Salary in accordance with Grade A.P.T., V(a) (2550×220-260) per annum).
Applicants must have passed the examination for Associate Membership of the Institution of Civil Engineers, or have the testamur of the Institution of Municipal Engineers, and must have had at least 8 years' experience (including training or pupilage) in General Municipal works. Experience in sewerage and reinforced concrete design will be an advantage. Housing accommodation will be made available to the successful applicant if required.

(c) JUNIOR ENGINEERING ASSISTANT. Salary in accordance with Grade A.P.T., I (2390×215-2435 per annum), are Grade A.P.T., I (2391×215-2435 per annum) according to qualifications and experience.

Applicants should be graduate assistants with an engineering degree, or junior assistants who have completed their articled pupilage.

The appointments are on the established staff and are subject to: (1) The National Scheme of Conditions of Service; (2) the provisions of the Local Government Superamuation Act, 1937; (3) the passing satisfactorily of a medical examination, and (4) one month's written notice on either side.

side.

Applications, stating age, whether married or single, qualifications, and experience, and accompanied by the names and addresses of two referees, must be received by me not later than 14th September, 1950. Canvassing will disqualify.

H. E. H. LAWTON.

Clerk of the Council.

Council Offices, Derby Road, Huyton.

August, 1950.

HAMPSHIRE COUNTY COUNCIL.
Applications are invited for the following appointments on the established staff of the County Architect's Department:—
(a) SENIOR ASSISTANT ARCHITECT. Grade

County Architect's Department:—

(a) SENIOR ASSISTANT ARCHITECT. Grade VI (£595-£660).

(b) ASSISTANT QUANTITY SURVEYOR. Grade VI (£595-£660).

Candidates for appointment (a) must be Registered Architects, preferably A.R.I.B.A. with at least 5 years' experience and with good general experience in the design and construction of public buildings.

Candidates for appointment (b) should be Members of the R.I.C.S., with at least 5 years' experience, and should have had good experience in the preparation of estimates and Bills of Quantities for all types of buildings, and in the settlement of final accounts and building contracts.

The appointments are pensionable and will be subject to satisfactory medical reports. The

contracts.

The appointments are pensionable and will be subject to satisfactory medical reports. The appointments will be terminable by three months' notice on either side.

Applications should be made on forms to be obtained from the County Architect, The Castle, Winchester, to whom they should be returned not later than the 24th August, 1950.

G. A. WHEATLEY,

Clerk of the County Council.

The Castle, Winchester.

2nd August, 1950.

4998

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointment on the permanent staff in accordance with the National Scale of Salaries:—
ONE JUNIOR QUANTITY SURVEYOR, Grade III, IV and V. Salary £450-£570.
Applicants should be fully experienced in working up, final accounts, the taking off of minor works, and must have passed the Intermediate Examination of the R.I.C.S.
The appointment will be subject to one month's notice in writing on either side, and to the terms of the National Joint Council's Scheme of Conditions of Service, and the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.
Form of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Monday, 28th August, 1950.
Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS, Town Clerk.

BOROUGH OF WIMBLEDON.
ARCHITECTURAL ASSISTANTS.
Applications are invited for the appointment of two General ARCHITECTURAL ASSISTANTS, on Grade A.P.T., IV, on the established staff of the Borough Engineer and Surveyor's Department. Commencing salary is £460 per annum, rising by three annual increments of £15 to a maximum of £525. London weighting is paid in addition to the salary. Applicants must have had experience in Municipal, architectural and housing work, and should have passed the Intermediate Examination of the R.I.B.A. or possess suitable equivalent qualifications.

The appointments are in accordance with the National Conditions of Service, and are subject to the provisions of the Local Government Superannuation Acts and to satisfactory medical examination.

Applications, endorsed "Architectural Assistants," stating age, qualifications, former local government service, present and previous appointments and experience, length of notice required to terminate present appointment, and the names and addresses of three persons as referees, must be forwarded to the Borough Engineer and Surveyor, by 1st September, 1950.

Candidates must disclose in writing to the undersigned if to their knowledge they are related to any member or senior officer of the Council.

EDWIN M. NEAVE.

Town Hall, Wimbledon, S.W.19.

COUNTY BOROUGH OF SMETHWICK

Town Hall, Wimbledon, S.W.19.

COUNTY BOROUGH OF SMETHWICK.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the following appointments at salaries in accordance with the National Scales as indicated:

(a) ARCHITECTURAL ASSISTANT.
Grade VI. £595-£660.
(b) ARCHITECTURAL ASSISTANT. A.P.T.,
Grade V. £506-£750.

(b) ARCHITECTURAL ASSISTANT. A.P.T., Grade V. £510-£570.
(c) CHIEF TOWN PLANNING ASSISTANT. A.P.T., Grade VII. £635-£710.
(d) TOWN PLANNING ASSISTANT. A.P.T., Grade IV. £480-£525.
(e) QUANTITY SURVEYOR. A.P.T., Grade VI. £595-£660.

(d) TOWN PLANNING ASSISTANT. A.P.T., Grade IV, £480-£525.
(e) QUANTITY SURVEYOR. A.P.T., Grade VI, £595-£660.
(f) SENIOR ENGINEERING ASSISTANT. A.P.T., Grade VI, £595-£660.
Candidates should possess, in addition to general experience of the duties applicable to the several appointments, the particular experience and qualifications specified below:—
(a) Design of houses, flats and other Municipal buildings, preference being given to Members of the Royal Institute of British Architects.
(b) Comprehensive experience of architectural work and suitable qualifications.
(c) Experience of survey, design and development, and Corporate Membership by examination of the Town Planning Institute and/or the Institution of Civil or Municipal Engineers.
(d) Preference will be given to candidates who have passed the Intermediate Examination of the Town Planning Institute and/or the Institutions, and settlement of Final Accounts. Candidates must be suitably qualified.
(f) Candidates should be Corporate Membershy examination of the Institution of Civil Engineers and/or the Institutio

The Council House, Smethwick, 40.

E. L. TWYCROSS,

Town Clerk.

CHITECTS' JOURNAL for August 17, 1950

SUDAN GOVERNMENT.

The Public Works Department requires an ARCHITECTURAL ASSISTANT, aged 24 to 36, for service in the Sudan. The duties consist of the preparation of working drawings for general building work. Candidates should have a sound Architectural training and experience of general building work, and be capable of the preparation of working drawings.

Appointment will be ceither on Short Term Contract with bonus for an initial period of two years on a salary scale £E593 to £E1,215, or on Short Term Contract without bonus on a salary scale £E632 to £E1,296. In either case starting rate would be fixed according to age, qualifications and experience, but would not exceed £E917 on Short Term, without bonus, terms.

Ost-of-living allowance, varying between £E142 and £E352 per annum, according to the number of dependents, is at present payacle, and, subject to certain limitations an outfit allowance of £E40 is payable on appointment. Five passage on appointment. Full particulars and application form may be obtained on application to: Sudan Agent in London, S.W.I. Please mark envelopes Architectural Assistant."

DURHAM COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Agent in London, Wellington House, Buckingham Gate, London, S.W.I. Please mark envelopes Architectural Assistant."

DURHAM COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS AND QUANTITY SURVEYING ASSISTANTS.

Applications are invited for the appointment of Architectural Assistants and Quantity Surveying Assistants in the following grades, in accordance with the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services Scales and Conditions:

Grade A.P.T., VII, 2635-2710.
Grade A.P.T., VII, 2635-2710.
Grade A.P.T., VI, 2630-2570.
Grade A.P.T., VI, 2530-2570.
Grade A.P

Ath September, 1950.

J. K. HOPE,
Clerk of the County Council.

Shire Hall, Durham.
2nd August, 1950.

YIEWSLEY AND WEST DRAYTON URBAN
DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.
Applications are invited for the established appointment of ARCHITECTURAL ASSISTANT.
Salary A.P.T., Grade V (520-6250, plus £30 London weighting).
Candidates must be Registered Architects, and preference will be given to applicants possessing experience in housing and general Municipal work.

The appointment will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side, and the successful candidate will be required to pass a medical examination. It is a condition of service that the person appointed shall be, or shall become as soon as possible after commencing duty, a member of a Trade Union, Professional Organisation or other recognised negotiating body.

Housing accommodation will, if necessary, be provided, and candidates should state in their applications if this is required.

Applications, on forms to be obtained from the Engineer Surveyor and Architect, together with the names and addresses of two referees, and endorsed "Architectural Assistant," are to be returned not later than Saturday, the 26th August, 1950.

A. C. KENNEDY,
Council Offices Viewslay Widdlesser

returned not later than Saturday, the 26th August, 1950.

A. C. KENNEDY, Clerk of the Council. Council Offices. Yiewsley, Middlesex. 4999

BRITISH ELECTRICITY AUTHORITY. Applications are invited for the appointment of WORKS INSPECTOR (temporary) in the Construction Department at Divisional Headquarters, to be centred at the Uskmouth Generating Site, near Newport.

The salary, which is provisional and subject to negotiation, will be £450 per annum.

Applicants should have been engaged on large civil engineering works involving pile driving, bulk excavation, heavy foundation and superstructure work. Experience in the checking of the erection of structural steel buildings would be considered an advantage.

Forms of application may be obtained from the Divisional Secretary at the address below, to whom completed applications should be returned not later than 25th August, 1950, in sealed envelope endorsed "Works Inspector."

H. V. PUGH.

Divisional Controller.

Cardiff (Pengam Moors) Airport, Cardiff.

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THE LANCASHIRE COUNTY COUNCIL.

Experienced and qualified Architects, with a flair for design, are invited to apply for vacant positions, with commencing salaries of £685, rising to £760 per annum, to assist on a school building programme which includes technical colleges.

Application forms obtainable from the County Architect, County Offices, Preston, to be returned by the 16th September, 1950.

APPOINTMENT OF ASSISTANT PLANNING OFFICERS FOR THE SINGAPORE IMPROVE-MENT TRUST.

Vacancies exist on Permanent Staff for :(a) ASSISTANT PLANNING OFFICER (Appli-(b) ASSISTANT PLANNING

(a) ANSISTANT PLANNING OFFICER (Applications).

(b) ASSISTANT PLANNING OFFICER (Engineering).

Qualifications: 3 years' Local Authority Town Planning experience together with, for (a) A.M.T.P.I. and for (b) A.M.I.Mun.Eng.
Conditions for either appointment: Maximum age & years. Subject to medical examination.
Basic salary in range \$560 to \$1,000 per month, starting point above minimum for suitably experienced applicants. Graduated scale of allowances, e.g., present allowances on \$560 p.m. basic amount to: Expatriation \$110 p.m., plus cost-of-living \$192 p.m. for single man or \$546 p.m. for married man with family. Annual increments \$50 p.m. Local taxation much lower than England. One Malayan dollar equals 2s. 4d. Thus a married man with family on basic salary of \$560 would draw equivalent of £1,333 in the first year of service.

Quarters with heavy furniture provided at 8 per cent. in lieu. Initial engagement on three years agreement. Il months' leave after 4 years' service. Free medical attention. Passages paid, including family. Compulsory Provident Fund contributions of 72 per cent. salary, plus expatriation allowance and Trust donate 73 per cent. after 20 years' service.

Applications in duplicate, with full personal and technical information, and copies of three testimonials, to Messrs. Peirce & Williams (Agents to the Trust), 1, Victoria Street, London, S.W.1. by Tuesday, 5th September, 1950.

METROPOLITAN BOROUGH OF
PERMANENT APPOINTMENTS BOROUGH
ENGINEER'S DEPARTMENT.
Applications are invited from suitably qualified
porsons for the following permanent appoint(a) ARCHITECTURAL.

ARCHITECTURAL ASSISTANT. Grade f., VII (£665×£25-£740; less £10 under 26

(a) ARCHITECTURAL
A.P.T., VII (£665-£25-£70; less £10 under 26
years).

Applicants must be Associates of the Royal
Institute of British Architects or possess an
equivalent qualification. The person appointed
will be required to act as leader of a design group
engaged upon various schemes.

(b) ASSISTANT QUANTITY SURVEYOR.
Grade A.P.T., III (£480-£15-£525; less £10 if
under 26 years).

Applicants must have passed the Intermediate
Examination of the Royal Institute of Chartered
Surveyors or possess an equivalent qualification.
The duties are in connection with working up
quantities for various schemes.
The appointments are subject to the Council's
Conditions of Service, to the provisions of the
Shoreditch and Other Metropolitan Borough
Councils (Superannuation) Acts, 1922-37, to the
passing of a medical examination, and to one
month's notice on either side.
The Council cannot provide or assist in the
provision of housing accommodation for successful
applicants.

Application forms obtainable from me should be

Applicants.

Application forms obtainable from me should be returned, endorsed with the appropriate position, not later than noon on Monday, 4th September, 1969.

Canvassing in any form will disqualify.
D. T. GRIFFITHS. Southwark Town Hall, Walworth Road, S.E.17. 3th August, 1950.

CITY AND COUNTY OF THE CITY OF

Applications are invited for the appointments of ASSISTANT QUANTITY SURVEYORS on the Permanent Staff of the City Architect's Department. The salary will be in accordance with A.P.T., Grade VI (£595 to £660 per annum). Applicants must be thoroughly experienced in the preparation of Bills of Quantities, Interim Valuations, and Final Accounts.

The appointments will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937. Successful applicants will be required to pass a medical examination.

medical examination.

Canvassing will disqualify, and candidates must disclose whether to their knowledge they are related to any member of the Council or to the holder of any senior office moder the Council.

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to H. B. Rowe, F.R.I.B.A. A.M.I.Struct.E., City Architect, 2, Bouthernhay West, Exeter, not later than the 25th August, 1960.

Exeter. August, 1950.

C. J. NEWMAN, Town Clerk.

Town Hall, Slough. August, 1950.

COUNTY BOROUGH OF BURTON-UPON-TRENT.

Applications are invited for the following oppointments in the Architectural Office of the appointments in the Architectural Office of the Borough Surveyor.

(1) ONE QUANTITY SURVEYOR. Grade VII.

(1) ONE QUANTITY SURVEYOR. Grade VII.
A.P.T. Division (£553-£710).
(2) ONE ARCHITECTURAL ASSISTANT.
Grade VI, A.P.T. Division (£552-£660).
Housing accommodation will be provided, if required, for the Architectural Assistant.
Preference will be given to candidates who are Associate Members of the appropriate Institute.
Each appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to determination by one month's written notice on either side, and to the successful candidate passing a medical examination by the Medical Officer of Health.
Applications in sealed envelopes, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must be delivered to the Borough Surveyor, Town Hall, Burton-upon-Trent, not later than 10 a.m. on Monday, the 28th August, 1950.

Town Hall Burton upon Test.

Town' Hall, Burton-upon-Trent.

3rd August, 1950.

SCOTTISH SPECIAL HOUSING ASSOCIATION, which is a non-profit making Company, limited by guarantee and financed by H.M.

Treasury, invite applications for the appointment of ARCHITECT, Grade I. 2700 × 255 – 2900. The post is superannuation (Scotland) Act, 1937. A house may be available if required. Forms of application with full particulars can be obtained from the Secretary, 15/21, Palmerston Place, Edinburgh, 12.

URBAN DISTRICT COUNCIL OF WELLINGBOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—
QUANTITY SURVEYING ASSISTANT, at a salary in accordance with Grade V of the A.P. and T. Division of the National Scales (£520-£570).

Applicants should have had experience of housing schemes and should be competent to take responsibility for the preparation of Bills of Quantities, Estimates, Measurement of Works on Site, preparation of Interim Certificates and final accounts.

Site, preparation of interim Certificates and manageounts.

Previous experience with a local authority will be an advantage, and preference will be given to applicants holding a recognised qualification.

Housing accommodation will be provided if re-

ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade III of the A.P. and T. Division of the National Scales (£456.£495). Applicants should have had general Architectural experience (with particular reference to Housing), and should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings and details under supervision.

Preference will be given to applicants holding a recognised qualification.

Appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service. The successful candidates will be required to pass a medical examination.

The successful candidates will be required to pass a medical examination.

Applications, giving particulars of experience and qualifications, the names of two persons to which reference can be made, and accompanied by a copy of one recent testimonial, to be sent to the Engineer and Surveyor. Council Offices, Swanspool, Wellingborough, by Monday, the 4th September, 1950.

W. G. PALMER

W. G. PALMER,
Clerk of the Council.
4th Angust, 1950.

Ath Angust, 1950.

ROROUGH OF SLOUGH.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ASSISTANT APCHITECT.

Applications are invited for the permanent appointment of Assistant Architect on Grade A.P.T., V of the National Scales, at a commencing salary of 2520 per annum, rising on satisfactory service by two annual increments of £15 and one of £20 to a maximum of £570 per annum Applicants must be Registered Architects, and preference will be given to those who have had experience with a Local Authority.

Applicants must give details of age, marital state; qualifications, present and previous appointments, with dates, technical training and experience, whether related to any member or senior officer of the Council, and the names of two architects to whom reference can be made.

The appointment will be subject to (i) the provisions of the Local Government Superannuation Act. 1957; (ii) the National Scheme of Conditions of Service; (iii) the satisfactory passing of a medical examination by the successful candidate, and (iv) termination by one month's notice on either side.

A Flat will be available for the successful candidate,

Flat will be available for the successful candidate.

Applications, in sealed envelopes, endorsed

"Assistant Architect, Grade V," must reach the
undersigned not later than noon on Monday, 28th
August, 1960.

Canvassing, directly or indirectly, will dis-

NORMAN T. BERRY, Town Clerk.

NORFOLK COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. pplications are invited for the following to the country of following

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Applications are invited for the following appointments:—
(1) SENIOR ASSISTANT COUNTY PLAN-NING OFFICER. Salary A.P. and T., Grade VIII (2665-2760). Applicants must have passed the Final Examination of the Town Planning Institute or equivalent. Preference will be given to caudidates possessing a University Degree or an additional qualification in engineering, surveying or architecture. Wide practical experience in all aspects of statutory planning, including the compilation of written statements and written analyses in respect of County, Urban and Rural Areas, is essential preferably in the service of a County Council. Administrative ability and experience in the control of staff will be an added advantage.

service of a County Council. Administrative ability and experience in the control of staff will be an added advantage.

(2) SENIOR PLANNING ASSISTANT. Salary A.P. and T., Grade VI (£595-£660). Applicants should have passed the Final Examination of the Town Planning Institute, or of one of the following Institutions:—The Institution of Civil Engineers, the Institution of Municipal Engineers, the Royal Institution of Chartered Surveyors, the Institute of Landscape Architects, or held a University Degree in an appropriate subject. They should also have had good general experience in the administrative and technical work of a County Planning Department, including development control, survey, research, and development plan proposals.

The persons appointed to the above positions will be required to provide and maintain a motor car, for the use of which a travelling allowance will be payable in accordance with the County Council's scale. Facilities will be provided, where desired, for the purchase of a car by means of a loan, repayable over a period of up to 4 years. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination. Forms of application for the above positions may be obtained from the undersigned, and must be completed and returned to him not later than 25th August, 1950.

(3) THREE DRAUGHTSMEN (TEMPORARY).

be obtained from the undersigned, and must be completed and returned to him not later than 25th August, 1950.

(3) THREE DRAUGHTSMEN (TEMPORARY). Salary in accordance with the General Division scale, e.g., at 18 years of age £160, at age of 21 years £220, at age of 22 years £290, and at age of 32 years £385. Applicants should have reached school certificate or equivalent standard of education and must have had considerable experience as a draughtsman, preferably in a planning, surveyor's or architect's office. Applications for these three positions, in candidate's own handwriting, should be submitted to the undersigned not later than 25th August, 1950, together with copies of two recent testimonials. The appointments will be terminable by one month's notice on either side. Canvassing will be a disqualification.

H. OSWALD BROWN.

Clerk of the County Council.

County Offices, Thorpe Road, Norwich.

CRECK of the County Council.

TION (Bracknell, Berks) invites applications from suitably qualified persons for the following appointments:—

(1) PLANNER. Salary £750×£50—£900.

Applicants for (1) should be Corporate Members

(2) ARCHITECT (Housing). Salary £550×240—£750.
Applicants for (1) should be Corporate Members of the T.P.I. and also have a sound knowledge of town planning, with particular reference to the problems of new town development.
Applicants for (2) should be Corporate Members of the R.I.B.A., and an additional town planning qualification will be an advantage. They should have had experience of the design of house types and the layout and construction of large housing developments.

and the layout and construction of large housing developments.

The successful applicants will work under the direction of E. A. Ferriby. B. Arch., A. M. I. B.A., A. M. T. P. I., Chief Architect to the Corporation. The posts will be superasmusable under the Local Government Superasmusation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with the name of two persons to whom reference can be made, must reach the General Manager. Bracknell Development Corporation, Farley Hall, Binfield. Bracknell, Berks, on or before Sist August, 1950.

Farley Hall, Binfield. Bracknell, Berks, on or before 31st August, 1950.

NATIONAL COAL BOARD—WEST MIDLANDS DIVISION.

Applications are invited for the following appointments in the Board's service:—

(a) ARCHITECTS, Grade I. Salary £700× £25-£575, according to qualifications and experience. Headquarters at Himley Hall, near Dudley, Wores. Applicants must be Associate Members of the Royal Institute of British Architects and have considerable experience in the preparation of sketch plans, working drawings, specifications, supervision of works in progress, general administration, and able to control large contracts.

(b) CLERK OF WORKS, Grade I. Salary £500× £25-£550. Headquarters near Nuneaton. Applicants must have a sound knowledge of property repairs (Houses and Farms), preparation of specifications and approximate estimates, drainage and water supplies, preparation of reports, and the supervision of Contracts.

All posts are eligible for the Board's Superanuation Scheme. Applications, giving age, education, war service, qualifications and experience in chronological order, should be made as soon as possible to the ESTABLISHMENT OFFICER, National Coal Board, West Midlands Division. Himley Hall, near Dudley, Wores.

lxii

LONDON COUNTY COUNCIL.

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COUNTY BOROUGH OF MERTHYR TYDFIL.
BOROUGH ENGINEER, SURVEYOR AND
ARCHITECT'S DEPARTMENT.
Applications are invited for the following
appointments:—
(a) SENIOR ARCHITECTURAL ASSISTANT.
Grade A.P.T., VI.
(b) ARCHITECTURAL ASSISTANT. Grade
A.P.T., V.
(c) QUANTITY SURVEYOR. Grade A.P.T.,
VI.

VI.

Candidates for (a) must have had considerable experience in the design and construction of houses, clinics, public buildings and general architectural work, in the preparation of specifications, bills of quantities and estimates in connection therewith. Applicants must be Associate Members of the Royal Institute of British Architects.

Candidates for (b) must have passed the Inter-

Members of the Royal Institute of British Architects.

Candidates for (b) must have passed the Intermediate R.I.B.A. examination and have had at least two years' experience after attaining that qualification.

Candidates for (c).—Preference will be given to applicants who are members of the Royal Institute of Chartered Surveyors (having qualified in the Quantities Sub-Division), capable of preparing specifications and estimates, taking off abstracting and billing quantities, and dealing with the Contractor's accounts for all classes of Municipal building and engineering work.

The appointments will be subject to:—
(1) Scheme of Conditions of Service of the National Joint Council.
(2) Provisions of the Local Government Superanuation Act, 1937.
(3) The passing of a satisfactory medical examination.

(4) One month's written notice on either side. Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be delivered to the undersigned not later than Thursday, the 24th August, 1950.

Canvassing in any form will be deemed a disqualification.

Canvassing in any form will be deemed a disqualification.

T. S. EVANS, Town Clerk.

Town Hall, Merthyr Tydfil. 3rd August, 1950.

TYRONE COUNTY EDUCATION COMMITTEE. APPOINTMENT OF ASSISTANT ARCHITECT. Applications are invited from fully qualified Architects for a post on the permanent staff of the Architect's Department.

The salary scale will be £650×£25 to £750 per annum, and the point of entry to the scale will be determined according to the experience of the person appointed.

Preference will be given to suitably qualified ex-Setvice applicants provided the Committee is satisfied that such applicants can, or within a reasolable time will be able to, fill the post efficiently.

Forms of application and conditions of appointment may be obtained from the undersigned, with whom completed applications must be lodged not later than Menday, 28th August, 1950.

Chief Education Office.

Benefic Office. Omagh, Co. Tyrone,

OFFICE OFFICE

Education Office. Omagh, Co. Tyrone,
Nr. Ireland.

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
The above County Council invites applications for the under-mentioned appointments in the County Architect's Department, Wrexham, viz.—
(a) ONE ASSISTANT ARCHITECT. A.P.T.
Division, Grade 11.
Salary £595-£660 per annum.
Preference will be given to Associates of R.I.B.A.
Applicants must have had a thorough training in architectural design and construction of Modern School buildings, and other works carried out by Local Authorities.
(b) ONE ASSISTANT ARCHITECT. A.P.T.
Division, Grade V.
Salary £520-£570 per annum.
Preference will be given to Members of R.I.B.A. or Registered Architects. Applicants must have had sound experience in Architectural design and in the preparation of working drawings, with full understanding of Modern School construction.
(c) TWO JUNIOR ASSISTANT ARCHITECTS.
A.P.T. Division. Grade III.
Salary £450-£495 per annum.
Preference will be given to applicants who have passed the Intermediate R.I.B.A. Examination. Applicants must be capable of preparing working drawings and details for modern buildings.
(d) ONE SPECIFICATION WRITER. A.P.T.
Division, Grade IV.
Salary £480-£525 per annum.
Applicants for post (d) must have had Architectural and Quantity Surveying experience and possess a thorough knowledge of current Building Practice and Materials. They must be fully capable of preparing detailed Specifications in connection with County Council properties, and

be able to prepare enquiries and deal with Provisional Sum Items in connection with new building projects. The successful applicant will also be required to assist generally in the Quantity Surveyor's Department.

The appointments will be subject to termination of one month's notice in writing on either side, and also to the provisions of Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination and to reside in such place in the County as the County Council may direct.

Applications, giving age, qualifications and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to me, the undersigned, in a sealed envelope, endorsed with a description of the post applied for, by not later than the 31st day of August, 1950.

Clerk of the County Council.

County Offices, Ruthin.

4th August, 1950.

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Bills of Quantities and Specification will be
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at my office during normal working hours, or at
the offices of the Architects, or the Clerk of
Work's Office on the site.
The acceptance of any Tender is subject to the
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Tender.

HERBERT COPLAND.

HERBERT COPLAND, Clerk of the Council.

County Offices, Lincoln. 2nd August, 1950.

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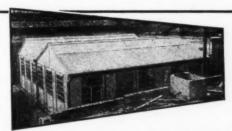
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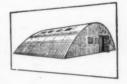
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Woodbridge. Tel. 546.

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Apply to Box 643.

A RCHITECTURAL ASSISTANT required,
Inter. standard, for general practice; must
be good draughtsman, with experience in detailing of building work, joinery, etc. Reply, stating
age, experience and salary required, to R.
Jelinek-Karl, L.R.I.B.A., 22, Chancery Lane,
W.C.2. 618

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A RCHITECTURAL ASSISTANT required by City (London) Architect, with general practice: Intermediate-Final standard; keenness on work essential; good salary commensurate with experience; 5-day week, hours 9 to 5. Write, stating experience and salary required, Box 620.

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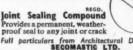
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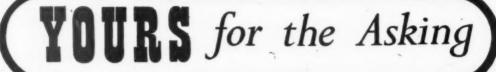
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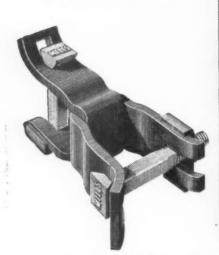
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